
Release Notes

Product: Leica Infinity

Date: 12th August 2026

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Leica Infinity v5.2.0



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1 Welcome to Infinity v5.2

Leica Infinity v5.2.0

Please read the following chapters carefully to learn more about what is new.

Overview: what's new

NEW – AI Assistant An intelligent companion that helps suggest and guide users to accomplish their work faster and easier.

Drafting dimensions Full set of associative dimension tools available to use in drawing sheets (aligned, linear, rotated, ordinate, angular).

Trimble JXL import Updated support for Trimble JXL (JobXMLv6.3) and now includes observations measured by total station and GNSS RTK .

Tunneling CTA enhancements Create CTA profiles directly from list of points including sector-based analysis and tunnel layer display included in reports.

Imaging improvements GPU support for processing, semi-automatic GCP marking, and automatic remote point for all image group types.

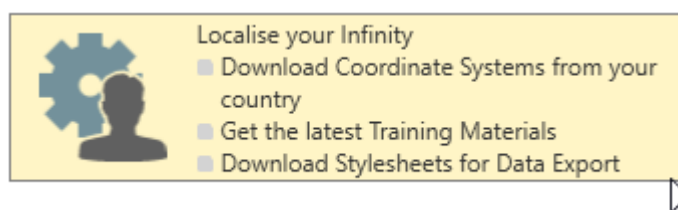
COGO: Measure Point to Feature New tool to measure points against lines and alignments, computing chainage, offset, and height difference.

Data Prep and CAD improvements Copy surfaces from CAD, IFC reference files, improved DTM export naming, chainage/offset in comparison maps.

Getting started – Help & support

Getting started, users have access to information and useful data, including coordinate systems, stylesheets, tutorials and sample data, all available from the *Localisation Tool*.

From the **Help** menu, click on the **Localise your Infinity** button to access this data and the tutorials to help you get started with Infinity.



Ordering Infinity

Infinity has flexible ordering options. Users can purchase a one-time permanent perpetual license or can also buy into a subscription plan.

In addition to our existing Leica Infinity – Basic package, users can purchase additional packages based on their needs. All packages and their features can be found on the [Leica Infinity data sheet](#).

Contact your local Leica representative to discuss the best options for meeting your project and workflow needs.

YouTube videos

Check the Leica Infinity [YouTube page](#) to see the new **How to create drawings to document your field work** video, which helps you get started using the Drafting Module.

While you are there, see our playlist of how-to videos that help you get familiar with all the features of the application, including tips & tricks and best practices.

1.1 Installation details

Installation information

Leica Infinity v5.2.0	Build	Maintenance end date
	60040	1st November 2025

Leica Infinity is a Windows 64bit application

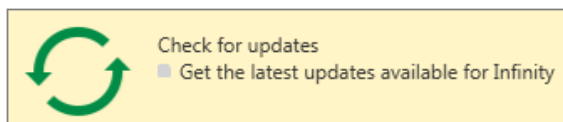


With an active CCP or Leica Infinity subscription license, users will be able to update to this new version. Confirm that your Maintenance End Date is on or after the date listed above before installation.

New users can download the latest version from the Leica Geosystems [myWorld](#) support website.

Check for updates

From *Help & About* choose **Check for updates**. When a new version is available, you will be notified that the update can be downloaded from [myWorld](#).



Operating system requirements

The following Microsoft® Windows™ operating system editions are supported:

- Desktop: Windows 11
- Server: Windows Server 2019, Windows Server 2022, Windows Server 2025

Note: You must have administrative privileges on your computer to successfully install Leica Infinity.

Minimum hardware

- Display: 1024 * 768 px
- Input: keyboard and mouse with wheel
- Processor: multi-core 2.4 GHz
- RAM: 8 GB
- Disk storage: 100 GB
- Graphics: DirectX9 compatible

Recommended hardware

- Dual Display: 1920 * 1280 px
- Input: keyboard and mouse with wheel
- Processor: multi-core 3.5 GHz or more
- RAM: 32 GB or more
- Disk storage: SSD of 1 TB or more
- Graphics: DirectX11 compatible, 8 GB memory or more, CUDA capable

Recommended hardware for Image Processing, Point Cloud Registration	- Dual Display: 1920 * 1280 px - Input: keyboard and mouse with wheel - Processor: 8 Core 3.5 GHz or more - RAM: 64 GB or more - Disk storage: SSD of 2TB or more - Graphics: DirectX11 compatible, 16 GB memory or more, CUDA capable
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1.2 New: AI Assistant

The AI Assistant

We're excited to introduce our new AI Assistant, available in Beta.

An intelligent companion that helps users search information, suggest workflows, and explain how to complete your project work in an easy-to-understand step by step summary.

The assistant is designed to help you complete tasks faster, answer questions, and make your experience with the product even smoother. Because it's still in Beta, you may encounter mistakes or responses that could be improved.

Every conversation helps us make the assistant better. By using it and sharing your feedback, you're helping us refine its capabilities, improve its accuracy, and build features that are most valuable to our users.

Thank you for helping shape the future of the AI Assistant!

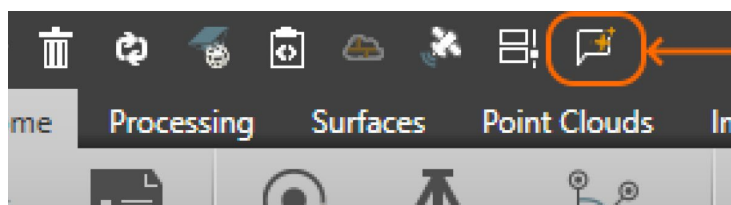
Using the Assistant

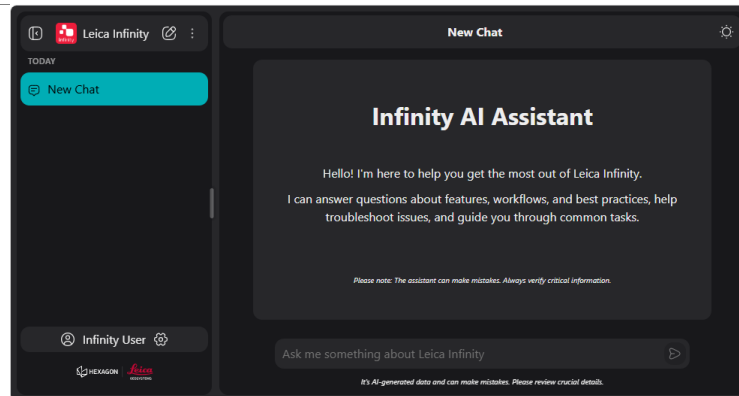


From the Quick Access tool bar you open the AI Assistant. In the BETA version the AI Assistant launches in a web browser.

Manage your chats, find answers to your questions, learn about suggested workflows and copy the replies to share or save offline to continue working with.

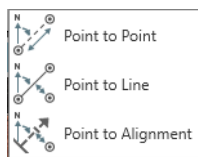
Your use of the assistant and your shared feedback will help us improve the tool and bring additional abilities. Our goal is to help our customers do their work as effective and as efficient as possible.



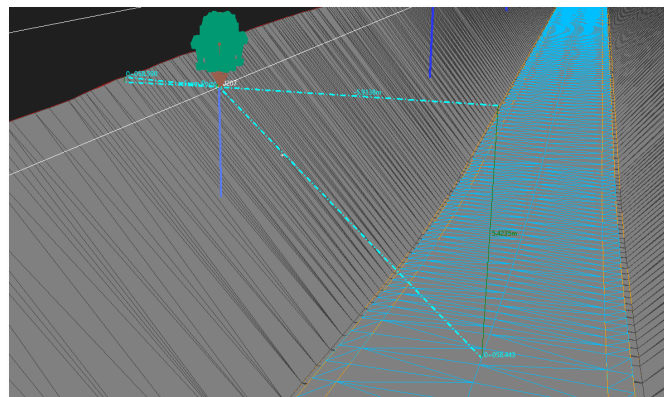


1.3 COGO Measure point to line, alignment

Measure points



New COGO methods allow users to measure one or more points against a reference line or alignment. For each point, Infinity calculates the chainage (perpendicular projection along the alignment), the lateral offset (left or right), and the height difference. Results are shown in the tool results panel and can be saved to a report.



Measure point to line

Select a line, open the measure to point tool and select the points you want to measure to. Choose between 2D or 3D projection direction to provide distance and height difference.

Measure point to alignment

Select an alignment, or a string that is included in a road, open the measure to point tool and select the points you want to measure to. Choose between vertical or perpendicular projection directions to provide the chainage/station along, offset and height difference.

1.4 Drafting

Drawings & styles Each drawing now works as a DWG file which means any style that has been included in a sheet, imported from DWT or edited in a sheet, will be available in all sheets within that drawing. This simplifies working with features and keeping styles consistent.

With these changes, it's also easier to export a drawing, using Export Drawing.

Note, in a future release it will be possible to use a Style Manager to create, edit and better use styles in your drawings.

Dimensions

Now users can annotate their drawings directly in the Model Space with a full set of dimension tools – measuring distances, angles, and coordinates.

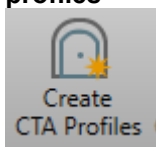


- **Aligned Dimension** places a dimension measuring the straight-line distance between two points, automatically aligned to the angle of the measured object.
- **Linear Dimension** Measures the horizontal (Easting) or vertical (Northing) distance between two points.
- **Rotated Dimension** A dimension at a user-defined angle, for situations where neither aligned nor axis-parallel measurement fits.
- **Ordinate Dimension** Labels the absolute coordinate value (N or E) of a point relative to an origin, useful for referencing grid coordinates without cluttering the drawing.
- **Angular Dimension** Measures and labels the angle between two lines or directions directly in the drawing.

All dimension types are associative dimensions, live-linked to the geometry they measure. When a point or object is updated (e.g. after a traverse adjustment or point average updates), the dimension value, position, and orientation update automatically. If the referenced geometry is deleted, the dimension is removed.

1.5 Infrastructure Tunnel

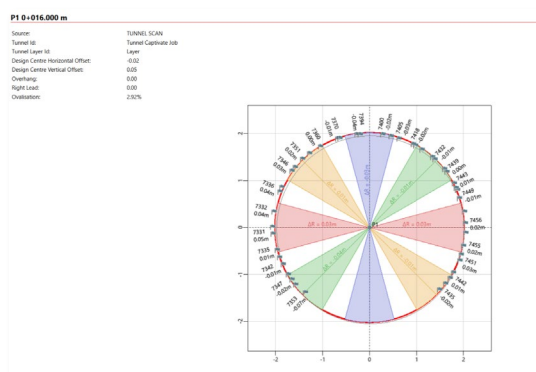
Create CTA profiles



Users can select a collection of measured points and let Infinity group them into tunnel rings automatically based on chainage proximity, then create CTA profiles from them. This supports workflows where field data arrives without pre-processed CTA results from Captivate.

CTA report enhancements

The CTA report now includes two new analysis capabilities: an option to display all tunnel layers in the report (e.g. kinematic envelope) to add context to the measured ring, and a sector-based analysis showing the deviation per sector, making it easier to understand squat at the roof, shoulder deformation, and overall ring ovalisation



Tunnel profiles layer definition

Tunnel layer definitions can now be set to perpendicular mode, meaning design profiles are generated perpendicular to the alignment in 3D. Material surfaces and CAD export both honour this setting, and the geometry updates dynamically when the layer definition changes.

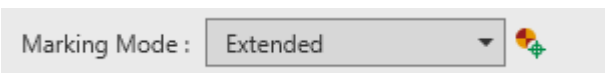
This allows users to work with vertical alignments, such as tunnel shafts or drill wells.

1.6 Imaging

Semi-automatic GCP marking



In the GCP wizard, users can enable an Automatic marking mode that spreads control point markings across all images. By marking the target in a first image, the target will be automatically identified in all other images, rather than requiring the user to mark each image individually.



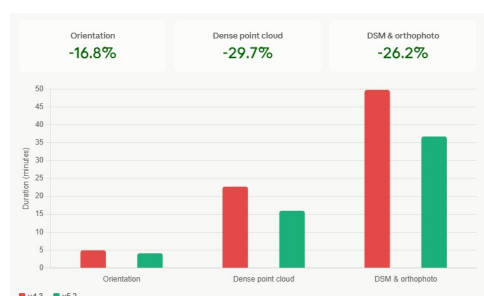
A "Remove All" action in the context menu allows clearing all markings for a wrongly placed point across all images.

Compute points from any image

The automatic mode for computing a remote point (forward intersection from images) used with GS18 I data is now also available for UAV, TPS, and terrestrial image groups. When a point is not computed using Automatic mode, the Measure Points tool will switch to Manual mode.

GPU support

GPU support has been implemented for both Orientation using Precise mode and generating a dense point cloud (DPC). This means when working with higher resolution images or large number of images in an image group, time to process will be reduced. GPU support for Precise orientation mode will reduce the processing times on average 25%. GPU support for DPC will reduce the processing times up to 50%.



Orthophoto

Time to produce orthophotos is also reduced by utilising an improved caching support. This improvement provides three different benefits: reducing processing times when using same settings as previous version, lets users generate higher resolution outputs from larger image groups when lower resolution settings were used to reduce processing time, and produce larger area orthophotos from same resolution settings as previous version for very large image groups

1.7 Surfaces

Comparison maps – material surface

When comparing points against a Material Surface (from a Road or Tunnel), users can now enable the "Compare to Alignment" option. When enabled, each point in the report will include the chainage or station and offset from the defined alignment. This added information is particularly useful for tunnel and road inspection workflows.

Comparison maps – use alignment

For users who need to compare points to a reference (surface, line features, point cloud) it is possible now to also include comparing to a selected alignment. The report will include the chainage or station and offset from the selected alignment. This is helpful for users who import a design surface from CAD or IFC, and need to verify measured points also in relation to an alignment.

1.8 Features, CAD, data prep

Export to Captivate job	DXF or DWG files imported to Infinity project are shown as reference files. With this release exporting project data to a Captivate job will now automatically include the polylines so that the field user can work with it if needed. This saves a lot of time by not requiring specific selection and copy to project in order to export the data.
Copy from CAD – line entities	When selecting CAD entities and copying to the project, in most cases the sequence of working IDs that were visible in Infinity were different to the design data, making it difficult to relate features. Now when copying entities to the project, the working IDs will be as created in CAD, making it easier to associate features and select data.
Copy from CAD - surfaces	Copy from CAD now includes specific Copy Surfaces option that creates a surface object without creating points and lines from the vertices. This simplifies working with CAD design data in Infinity and makes it easier to prepare surface data for export to Captivate.
Export surfaces to Captivate	When exporting multiple surfaces on the same layer to a single DTM job, the exported DTM folder and DTM job will use the user specified name plus _DTM. (e.g. Deck1_DTM). Previously, when exporting several surfaces using same layer, to the same DTM job, they received a generic name, making it impossible to distinguish them on the instrument.

1.9 General application improvements and fixes

Import	Extended support of Trimble JXL format to include importing observations. Import Trimble Access jobs including total station and RTK observations. The data can be used in processing and other applications where observations are used. Note that any observation using TILT is not possible to edit.
Import	Added support for the ISG geoid format. Import to the coordinate system manager and include as geoid for applicable coordinate systems.
Import	Added an option when importing GNSS RTK points measured in a VRS reference network, to either display the observations as stored from the virtual reference (VRS) or to display observations from the actual nearest mount point (PRS). Released with v5.0 all VRS observations were automatically displayed from the PRS and for some users this was impacting their reporting workflows.

1.9 General application improvements and fixes

Import	For GNSS post processing users, addressed an issue when importing navigation files from NASA CDDIS FTP server.
Layer Manager	Added a new Survey Layer Point Roles Users can toggle the visibility of the point role icons independently from the Points layer, allowing Point Role block references to remain visible while hiding the icons, or vice versa. This lets users choose to have a completely CAD friendly view of their project data by not displaying the measurement or point type icon used to represent a point.
Layer Manager	Added a new Survey Layer Adjusted Observations This layer draws the TPS, GNSS, and Level observations used in the stored network adjustment results, allowing users to view the geometry of their geodetic network. Use the layer to visualise adjustment results in sheet viewport in a drawing. The layer is off by default.
Navigator – Traverse	Setups are now included in the Traverse they participate with and listed in the Navigator.
Inspector	Added Layer column for all feature types. This makes it easier to sort by layer and identify features that might not be on the correct layer.
Surfaces	Fixed the issue for points compared to a material surface when points beyond the material surface were being used in the comparison above or below. These points now are excluded. If using compare to alignment, these points will include their distance and offset from the alignment.
Help	An updated help is available, with improved navigation and search abilities. This will make it easier to work with and find contents quickly.

2 What is new in Infinity v5.1

V5.1

- New Quality Control tool: A new window that groups different types of data issues making it easier to consider actions to address
- Drafting module: Background image support and automatic snapping options
- Infrastructure module: recompute CTA profiles
- Coordinate Systems: Create geoid files from NGS BIN and Trimble GGF formats
- Import IFC v4.3
- Host of customer requested improvements and bug fixes

2.1 New: Quality Control tool



Quality Control

Finding data issues is simplified with the new QC Tool, which groups different types of data issues in a single, easy-to-use window.

Open the QC window from the view strip.



From the Info & Settings page, choose which QC data checks should be displayed in the tool.

Each data issue includes a suggestion for improving your data.



Points that exceed the averaging limits

Points listed here have one or more contributors that exceed the configured averaging limits. Review an out-of-average point and set the point data that should be used for computing the average point position.



Points that are possible duplicates

Groups of points are listed here that may correspond to the same feature based on configured duplicate limits. View a group of duplicate points and consider renaming a point or delete not needed data.



Points deleted in the field

Points listed here were deleted in the field software and have been imported into the project. Use this list to recover a deleted point or to permanently delete it from the project.



Total station unknown setups

Total station setups listed here are missing information that defines the setup method. Review and assign a setup method to use these stations for processing applications.

2.2 Drafting module updates



Angular only measurements

List of observations containing angular measurements without a distance measurement. This list can help identify features that were measured incorrectly and need to be remeasured.



Codes not belonging to the project code table

The codes listed here were imported from a field job but are not part of the Project Code Table. Select a feature to assign the correct code, or save these field-imported codes to the project using the Code Table manager.

2.2 Drafting module updates

Background Images

Basemaps can provide context for drawing data within a viewport. Set a height for a basemap to determine which has priority in the viewport.



Object Snap



New snap option that, when enabled, will snap precisely to certain key points. These key points include Vertex, Midpoint, Centre, Quadrant, Insertion and Node. The object snap is used when drawing new objects or grip editing existing objects.

Press Tab to cycle through available snap points near the cursor.

Code table point roles

Block symbols assigned to point roles are visible in the main graphical view and viewports in a drawing and will be included in any CAD export.

The point role block will be visible for points that do not use blocks in their thematic codes. Point roles settings are added to existing code tables. Be sure to set the block and display properties as required.

Code Table	Point Roles	Layers	Blocks	Line Styles
Name	Y	Block	Layer	
Others		L_02	None	
Measured		L_02	None	
Reduced		L_17	Surv_Control	
Averaged		L_18	Surv_Control	
Setup		L_33	Defpoints	
Adjusted		L_27	Surv_Benchmark	
Control		L_34	Surv_Benchmark	

2.3 Tunnel Infrastructure – Wriggle Survey & Checked Tunnel Axis

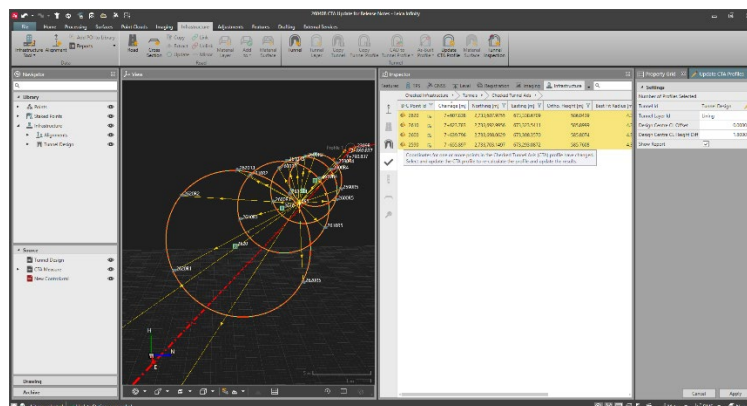
2.3 Tunnel Infrastructure – Wriggle Survey & Checked Tunnel Axis

Update CTA Profile



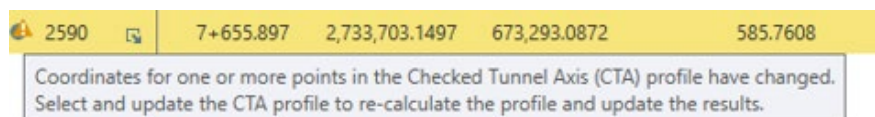
Checked Tunnel Axis (CTA) results, also known as Wriggle Surveys, in Leica Captivate now support updating report results when the total station setups are updated.

To update CTA results, use the Update Stations routine when control coordinates have been updated to bring all the TPS setups to the current control position. Once the stations have been updated, select the CTA profiles that need updates and use the Update CTA Profile routine. The results will be updated, and a new report can be saved.



CTA profile update notification

The CTA profiles monitor if any changes have been made to the source data and inform the user that they should be updated. This update can be from any edit made to a total station setup from where a profile was measured from or if any of the measure points have been updated.



2.4 General application improvements and fixes

Import ASCII	It is now possible to assign other point roles, Measured and Calculated, to the points to import.
Import IFC	Importing IFC v4.3 is supported
Geoid files	Create a Geoid GEM file from NGS BIN and Trimble GGF formats
Imaging	Improvements made for working with portrait images and using GCPs
Imaging	When generating large area orthophotos, the RAM memory usage is improved, and processing time has been reduced
Imaging	When working with a large number of images and GCPs, the time to open the GCP wizard has been reduced.
TPS Setup	Importing TPS setups using only 2D station height, it's now possible to update the station to 3D, and all station observations will have an updated height.
Point Coordinate Type	Users can set the coordinate type for imported or user-created points to better transform the data. This will be helpful when importing local grid coordinates into a project with a coordinate system; now it's possible to set the WGS84 coordinate as active.
Installation	Fixed an issue where it was not possible to silently install Infinity on a system user
12D CDE	Fixed a crash when a download was in progress, and the user changed to view data from a different folder
Surfaces	Fixed a display issue with comparison maps when using classified point clouds. When viewing point clouds by classification, the comparison map was not visible
WMS services	Fixed an issue where Get Feature was not working for some service providers
Reports	Fixed an issue where saving reports to the network drive was not possible

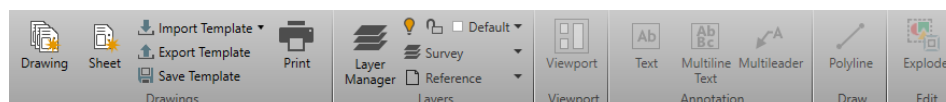
3 What is new in Infinity v5.0

- New Drafting module that lets users create and share drawings of field work
- New TS20 - Be ready with the optimal workflow using Leica Infinity
- Improved Captivate Infinity data flows with improved data management
- Improved CAD-friendly data flows, including improvements for blocks and styles
- New Level Lines wizard that simplifies edits and assignment of control points
- Host of customer requested improvements and bug fixes

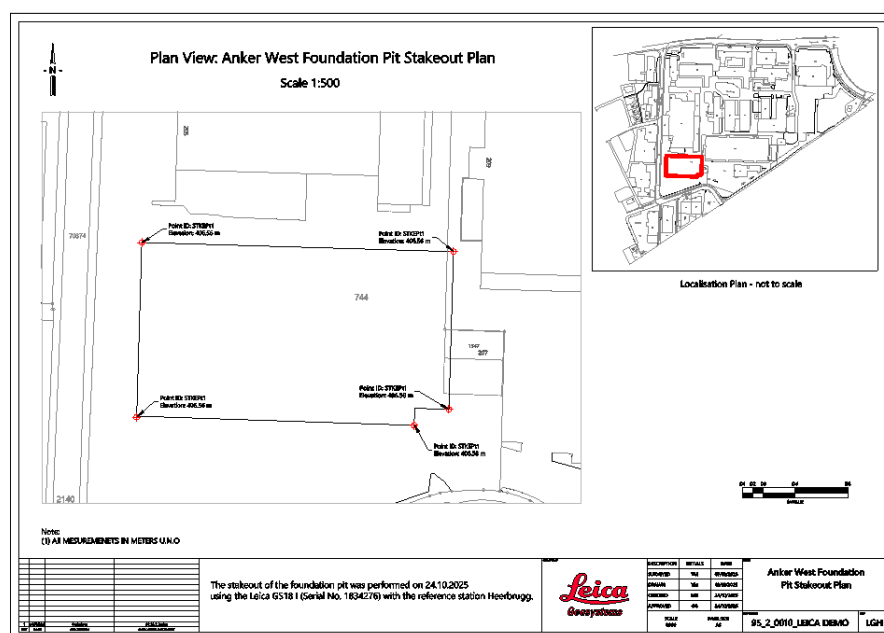
3.1 New: Drafting module to create Drawings

Drafting Module

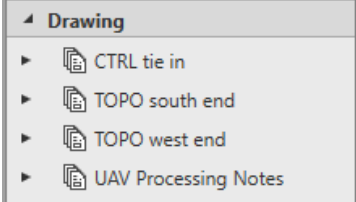
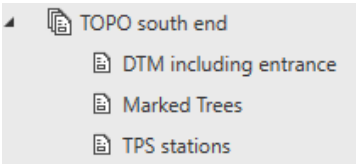
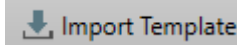
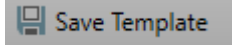
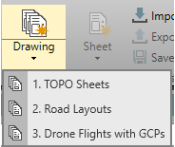
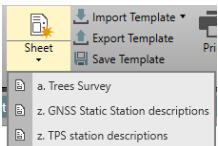
Infinity v5.0 brings a new level of documentation with the release of the Drafting module. Included in Infinity CORE, the Drafting module is designed to create shareable drawings from measure data that describe your work.



Create drawings to document field work, to document office processing and to complement any of your required surveying deliverables, all of which can be shared as PDF or in DXF, DWG format.



3.1 New: Drafting module to create Drawings

Drawing	 	A Drawing is a set of sheets in the project that can be given a unique name and help keep the order of project work. Create a Drawing to group the different work you want to document, and even label each sheet with a unique name that specifically gives the contents a title. Use a Drawing to summarise an aspect of the project work, including a place to write notes that help recall specific project tasks. Each Drawing, or even each Sheet, can be saved as a PDF or DWG/DXF file by selecting it, or, when nothing is selected, by saving the group.
Import templates from CAD		Infinity makes it easy to get started with drafting by supporting import of CAD templates, layers and styles. Most users already have defined CAD templates that include their company information and formatting. Importing these to Infinity is a quick and easy way to generate professional documentation. CAD templates can be imported from DWT, DXF, and DWG files.
Save template		To be most time-efficient, setting up templates helps you to quickly start your work at the right level. Create the base for your Sheet, save it as a template, and save a set of Sheets as a Drawing template. Use the Infinity templates as themes for the different survey work you need to produce documentation for.
Drawing from template		When using a drawing template, easily add a specific Drawing to the project. A quick way to document information for a specific deliverable.
Sheet from template		When using a sheet template, easily insert a specific sheet to a selected Drawing.

3.2 New: TS20 & Captivate v10

TS20 support



Be ready with the optimal workflow – Use Leica Infinity to prepare everything you need for your TS20 field work. Import design files and feature data for general data prep, create the field jobs with the information and data for the work, assign the coordinate system and feature code table and send to Leica Captivate with GeoCloud Drive, and you are ready to go.

Captivate



With Captivate v10 Infinity users can benefit from improved data handling that can simplify quality control and data preparation.

Now, with the additional option in the import window, users can choose to import a complete Captivate field job or only import what is new, not to reimport data already existing in the project.

Import duplicated objects ☐

This import option benefits teams working on projects where data preparation starts with Infinity and field teams collect and share data back to the Infinity project for data qc, data processing and general project updates. Ensuring that duplicated data is not imported, this keeps it easy to qc and process the latest field data.

For daily tasks, working with a single job over many days but still wanting to archive each day's work separately, use this setting for importing only what is new to simplify the data management in Infinity.

Features



Import of the additional Captivate options to create

- a circle from the centre point and a user-entered radius
- and a rectangle by two points to set height and width.

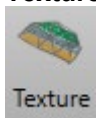
Create these features in Infinity, using the Create Feature commands.

Linework commands

Import of new Captivate linework options for Jog and Extend commands.

3.3 Surface module

Texture Surface



Texture Surface now allows two methods to texture a surface, using images or the colour from a point cloud.

Using texture on surfaces helps to better work with the surfaces in Infinity, such as for comparison maps. The texture can also be exported to provide a realistic representation of the surface in CAD applications or be very useful in VR or AR applications.



Project Line to Surface

2D or 3D lines projected onto a surface can now also be used to create alignments or other related infrastructure line or string objects.

Improved Surface methods

Improvements made to the surface methods Refine and Regular deliver better results when working with point cloud data, with better handling of spikes and more realistic reconstruction on edges.

3.4 Level processing – Level Lines wizard

Update Level Lines

Working with big level networks consisting of large number of level lines or measuring the same lines monitoring heights, it can take a lot of time to import and update the lines with 3d data. A new tool called Update Level Lines will let users update start and end points for all or the selected level lines in a project and quickly bring the level data to use the highest class point role. This is also a good tool to bring level data quickly to combine with the 3d project data.

Update Level Lines										
Level Lines										
Update	Level Line	Date/Time	Start Point	End Point	Adjustment Method	Misclosure [m]	Height Error / Point [m]			
☒	694-353 (2002-4368) (02/06/2025 16:07:02)	02/06/2025 16:07:02	694	353	No Adjustment	0.0006	0.0002			
☒	694-353 (894-6368) (02/06/2025 16:07:02)	02/06/2025 16:07:02	694	6368	No Adjustment	-0.0006	-0.0001			
☒	694-353 (8368-3001) (02/06/2025 16:07:02)	02/06/2025 16:07:02	6368	3001	No Adjustment	0.0005	0.0005			
☒	694-353 (8770-353) (02/06/2025 16:07:02)	02/06/2025 16:07:02	6770	353	No Adjustment	-0.0002	-0.0002			
☒	694-353 (8368-2001) (02/06/2025 16:07:02)	02/06/2025 16:07:02	6368	2001	No Adjustment	-0.0005	0.0000			
☒	694-353 (2001-6770) (02/06/2025 16:07:02)	02/06/2025 16:07:02	2001	6770	No Adjustment	-0.0003	-0.0002			
☒	694-353 (8368-3002) (02/06/2025 16:07:02)	02/06/2025 16:07:02	6368	3002	No Adjustment	0.0006	0.0002			
☒	694-353 (2001-6368) (02/06/2025 16:07:02)	02/06/2025 16:07:02	2001	6368	No Adjustment	-0.0004	-0.0004			
☒	353-494 (2001-6368) (02/06/2025 16:10:13)	02/06/2025 16:10:13	2001	6368	No Adjustment	-0.0013	-0.0001			
☒	353-494 (6368-3001) (02/06/2025 16:10:13)	02/06/2025 16:10:13	6368	3001	No Adjustment	-0.0002	-0.0002			
☒	353-494 (353-6770) (02/06/2025 16:10:13)	02/06/2025 16:10:13	353	6770	No Adjustment	0.0010	0.0001			
☒	353-494 (6368-694) (02/06/2025 16:10:13)	02/06/2025 16:10:13	6368	694	No Adjustment	-0.0006	0.0000			
☒	353-494 (2001-6368) (02/06/2025 16:10:13)	02/06/2025 16:10:13	2001	6368	No Adjustment	0.0005	0.0005			
☒	353-494 (2002-6368) (02/06/2025 16:10:13)	02/06/2025 16:10:13	2002	6368	No Adjustment	-0.0002	-0.0001			
☒	353-494 (8368-3002) (02/06/2025 16:10:13)	02/06/2025 16:10:13	6368	3002	No Adjustment	0.0013	0.0004			
☒	353-494 (6770-2001) (02/06/2025 16:10:13)	02/06/2025 16:10:13	6770	2001	No Adjustment	0.0002	0.0001			
☒	325-701 (325-326) (06/06/2025 14:22:10)	06/06/2025 14:22:10	325	326	No Adjustment	0.0003	0.0000			
☒	325-701 (326-701) (06/06/2025 14:22:10)	06/06/2025 14:22:10	326	701	No Adjustment	-0.0027	-0.0001			

3.5 General application improvements and fixes

Import DBX	Improved the time needed to import large Captivate jobs
Import images	Improved the time needed to import large image data sets
Import GNSS	Fixed an issue when GNSS RTK points measured from a iMAX mount point and the corrections communication is interrupted, it could result in more than one GNSS Setup point being created.
Importing files from folders	When importing several data types that include many files – such as SHP, RINEX, JPG etc, the folder name from where these files are imported from will be included in the Import Source name.
Export – StarNet	Now it is possible to export observation and vectors using the StarNet format, for easy sharing of survey data.
Export - CAD	Exporting DXF, DWG now includes option to include all layers and all blocks even if not used in the data being exported.
Export – CAD	When exporting blocks that use annotative texts, the settings are respected when exporting DXF, DWG.
Export – Autodesk FBK	Export points and lines with feature codes, attributes and linework flags for easy import to AutoCAD Civil3D
Imaging module	Improvements to Dense Point Cloud: improved fine detail extraction that better represents small or thin objects such as poles, wires and general small objects
Imaging module	Improvements made in Orientation step that reduce time for processing
Imaging module	Improved creating DSM on Sparse Point Cloud
Imaging module	Added 3d texture to Digital Surface Model (DSM) that provides a more realistic 3d data object and can be exported for use in other software's
Imaging module	The average ground sample distance (GSD) is now shown in Orientation properties and shown in the Image Processing report. Note, for terrestrial acquisitions, GSD value is not output.
Imaging module	Fixed single pixel holes in the Orthophoto
Imaging module	Fixed import of orientation values from Autel UAV imaging drones
TPS processing	Fixed an issue when angular only observations were not shown correctly in the Observations page of Traverse Wizard

3.5 General application improvements and fixes

TPS processing	Fixed an issue where the closing angle of a traverse closed on the starting setup of a different traverse, the scale would be 1.0
TPS processing	Fixed an issue when measuring Face 1 only Sets of Angles, the sets would be imported and set to disabled.
Tunnel module	Fixed an issue for Tunnel Inspection and Profiles set to Perpendicular to alignment, the plane of the last three profiles along alignment could be wrong.