

- when it has to be **right**



Leica Geosystems Release Notes

Product GeoMoS Now! v8.4
Date 5th May 2026
From Michael Rutschmann



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OVERVIEW

Leica GeoMoS Now! is a web-based application which provides access to monitoring data anywhere, anytime and with any web-based device. Monitoring data is presented visually with easy-to-interpret maps, graphs, images, deformation scans, tables and automatic reports, which quickly convey knowledge and understanding of a monitoring project to customers.

For more detailed product information, please visit:

<https://leica-geosystems.com/services-and-support/workflow-services/leica-geomos-now>

What's new in Version 8.4 released May 2026

OVERVIEW

Leica GeoMoS Now! version 8.4 is an update from Leica GeoMoS 8.0 and newer versions. It includes significant improvements and new functionalities.

GeoMoS v8.4 requires a valid CCP with an expiry date after **30th March 2026**.

Overview of the highlights:

- **Automated table export with reports**
- **Prism visibility**
- **General improvements**

AUTOMATED TABLE EXPORT WITH REPORTS

GeoMoS Now! v8.4 introduces the ability to automatically export configured tables and send them as attachments with scheduled reports. Users can now attach any existing table to an automatic report, eliminating the need for manual CSV exports.

The feature is available for both GeoMoS Now! and GeoMoS Now! Survey Edition, including Cloud and On-premise versions.

Configuration

Automated table export is configured in the Configuration > Reports menu under two tabs:

- **Schedule tab:** A new setting "Time range for the tables" defines the time period for the exported data. It works the same way as the existing "Time range for the graphs" setting, with the same interval options (hour, day, week, month, year).
- **Action tab:** A new section "Attach with report" allows the user to select tables from a dropdown menu and add them to a list of tables to be included with the report.

Report Assistant - scheduled reports

Name	Schedule	Action
Please select an action for this report.		
Send report to email address	<input checked="" type="checkbox"/>	
Enter the email address (separated by comma)	<input type="text" value="grega.soic@hvala.si"/>	<input type="button" value="Test Email"/>
Attach with report		
Add a Table	<input type="text" value="- Choose -"/>	
List of Tables	<div style="border: 1px solid gray; padding: 2px;">Daily average results 🗑️</div>	
<input type="button" value="Cancel"/> <input type="button" value=" < Back"/> <input type="button" value=" Next >"/> <input type="button" value=" Finish"/>		

Export and delivery

When a scheduled report is triggered, all configured tables are exported as individual CSV files, compressed into a single ZIP archive, and attached to the report e-mail alongside the PDF report. Each recipient receives one e-mail with two attachments: the PDF report and the ZIP archive containing the table CSV files.

Important Notes:

- Automated table export applies only to automatically scheduled reports. Manually downloaded reports do not include table attachments.
- When a table is edited or renamed in the Tables menu, the changes are automatically reflected in the next scheduled export.
- Deleting a table from the Tables menu also removes it from any configured report attachments.

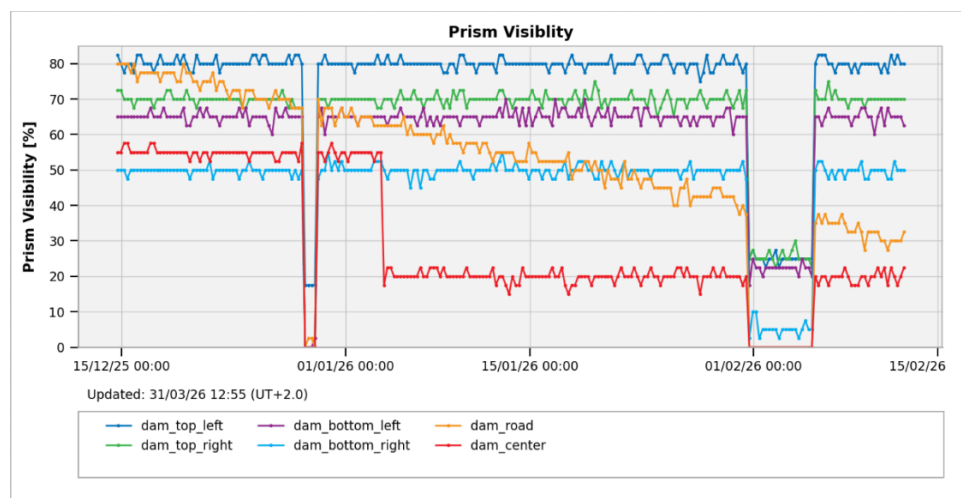
PRISM VISIBILITY

GeoMoS Now! v8.4 provides full support for the new prism visibility observation type. Prism visibility values measured in GeoMoS Monitor can be visualised and analysed in graphs and tables.

Prism visibility indicates the degree of cleanliness of a prism, expressed as a percentage value. A decreasing value indicates increasing prism soiling, enabling users to determine which prisms require cleaning. The feature is supported for the following total station models:

- TS16
- TM60
- TS60
- MS60

In GeoMoS Now!, the new observation type "Prism Visibility" is available in the Graph Designer as a plottable series, allowing users to create timeline graphs and monitor prism condition over time.



Prism visibility is influenced by distance and weather conditions such as fog. Prisms located further away from the TPS naturally show lower visibility values. Fog can cause temporary drops in visibility, which typically recover once conditions improve. To distinguish these effects from permanent changes, it is important to observe long-term

trends. Sudden sustained drops in prism visibility can also indicate prism misalignment.

GENERAL IMPROVEMENTS

Further improvements and bug fixes are available in GeoMoS Now v8.4:

- Fixed the issue where the automatic graph display showed incorrect values when plotting multiple points.
 - Fixed the character limitation in the Edit Graph Template for profile graphs, allowing more points to be entered.
 - Fixed the issue where raster image upload rejected JPG files with JGW world files.
 - Fixed the issue where non-paged graph types with more than 20 points were incorrectly split into multiple parts in reports.
 - Fixed the issue where required IIS features were not enabled during GeoMoS Now! installation on Windows 11.
 - Fixed the issue where vector scaling in Standard Vector graphs did not match the selected reference vector length.
 - Fixed the issue where deformation messages were missing in Point Details and Status View after the 8.3 update.
 - Improved the process to correctly filter and display limit-exceeded messages in the Status View.
 - Fixed the issue where Rain Accumulation values were incorrectly scaled in the map Point Details on the Overview.
 - Fixed the issue where the "Remember me" login function produced invalid credentials after logging out.
 - Fixed the issue where mobile users received an incorrect licence expired error when accessing projects.
 - Fixed the issue where limit classes could not be displayed in graphs when the null measurement value was different from zero.
 - Removed Google Maps and Bing Maps as base layer options; existing configurations will be automatically changed to OpenStreetMap.
-

COMPATIBILITY UPDATE

With GeoMoS v8.4 there is a change of supported operating systems and database versions.

Operating systems (*)

- Windows 11
- Windows Server 2016
- Windows Server 2019
- Windows Server 2022
- Windows Server 2025

(*) Only 64-bit mode on versions of Windows is supported

Database (*)

- Microsoft SQL Server 2016
- Microsoft SQL Server 2017
- Microsoft SQL Server 2019
- Microsoft SQL Server 2022
- Microsoft SQL Server 2025 (*NEW*)

(*) GeoMoS installation includes the Microsoft SQL Server 2019 Express version. In case a newer version or a different edition is needed (for bigger or long-running projects), the SQL Server needs to be installed separately.

What's new in Version 8.3 released October 2024

OVERVIEW

Leica GeoMoS Now! version 8.3 is an update from Leica GeoMoS 7.0 and newer versions. It includes significant improvements and new functionalities.

GeoMoS v8.3 requires a **valid CCP** with an expiry date after **30th September 2024**.

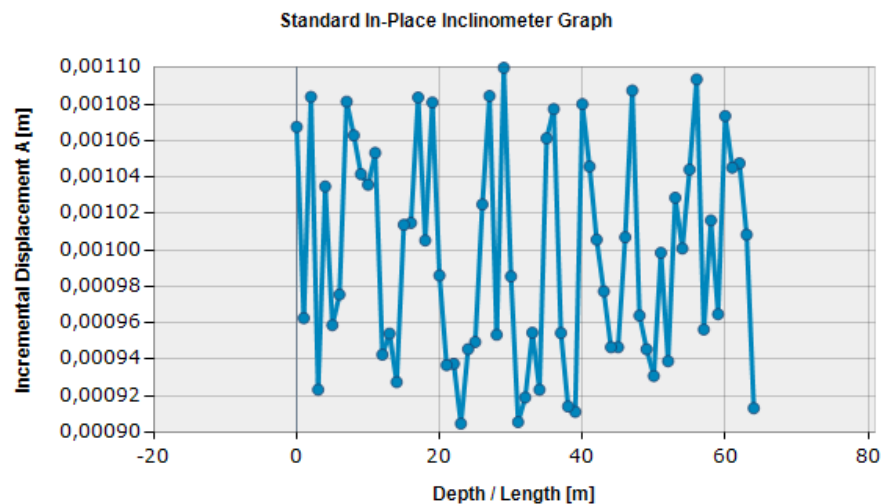
Overview of the highlights:

- **Non-paged graph types**
- **Additional standard icons**
- **JSON/XML import**
- **General improvements**

NON-PAGED GRAPH TYPES

GeoMoS Now! 8.3.0 introduces non-paged graph types, displaying more points per graph page, or even all points at once. This improvement applies to the following graph templates:

- Standard Contour Graph
- Standard Vector Graph
- Standard Profile Graph
- Standard In-Place Inclinator Graph



Important Notes:

- Graphs on the Dashboard, Overview, and Sites will be updated immediately.
- Graphs within reports will not be updated automatically. This change applies only to new graphs.

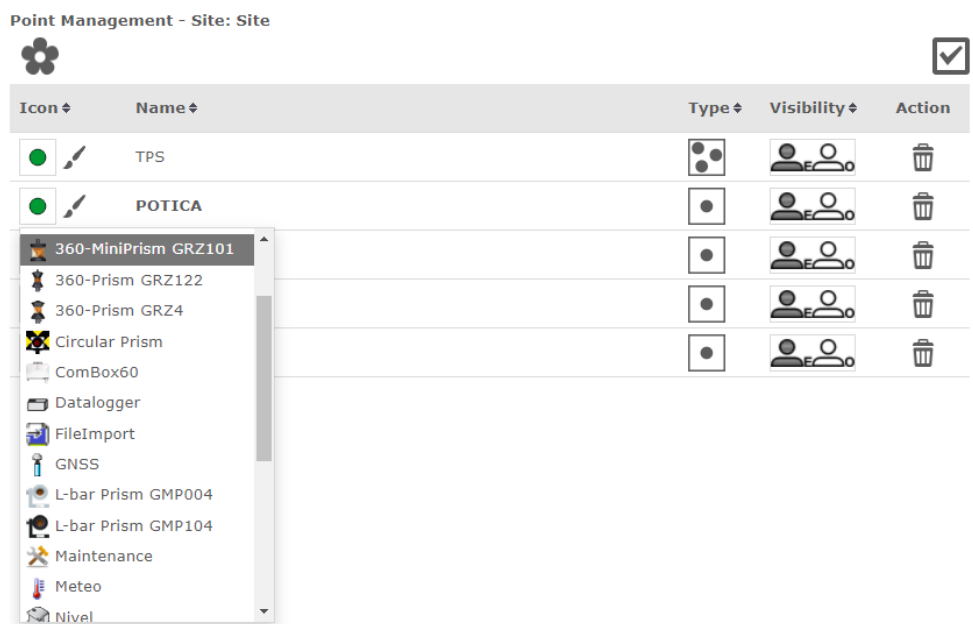
ADDITIONAL STANDARD ICONS

GeoMoS Now! 8.3.0 introduces new standard icons, providing more customisation options for point groups and standalone points. Users can now choose from an expanded set of default icons, including new icons for:

- 360° Miniprism GRZ101

- 360° Prism GRZ122
- 360° Prism GRZ4
- ComBox60
- Yellow Prism GPR112
- L-bar Prism GMP004
- L-bar Prism GMP104
- Voidmeter
- WiSen Interface
- WiSen Omni Tilt R
- WiSen Omni Tilt
- WiSen Omni Distance
- WiSen Smart Gateway

These icons can be easily selected through the context box in the Point Management table.



JSON/XML IMPORT

GeoMoS Now! v8.3 provides full support for observations and coordinates, imported from JSON/XML import sensors configured in GeoMoS Monitor. Values from all JSON/XML import sensors can be visualised and analysed in graphs and tables.

GENERAL IMPROVEMENTS

Further improvements and bug fixes are available in GeoMoS Now v8.3:

- Increased the number of users from 20 to 50 for GeoMoS Now! Enterprise subscription.
- Updated user acknowledgement process to ensure all GeoMoS Now! Cloud users read and accept legal documents.

- Fixed the issue where the scan data was not pushed correctly to GeoMoS Now!.
 - Fixed the issue when editing graph titles.
 - Fixed the issue where the outliers calculation failed.
 - Fixed the issue where large datasets caused an indefinite loading message, preventing table creation.
-

What's new in Version 8.2 released March 2023

OVERVIEW

Leica GeoMoS Now! version 8.2 is an update from Leica GeoMoS 7.0 and newer versions. It includes significant improvements and new functionalities.

GeoMoS v8.2 requires a **valid CCP** with an expiry date after **7th March 2023**.

Overview of the highlights:

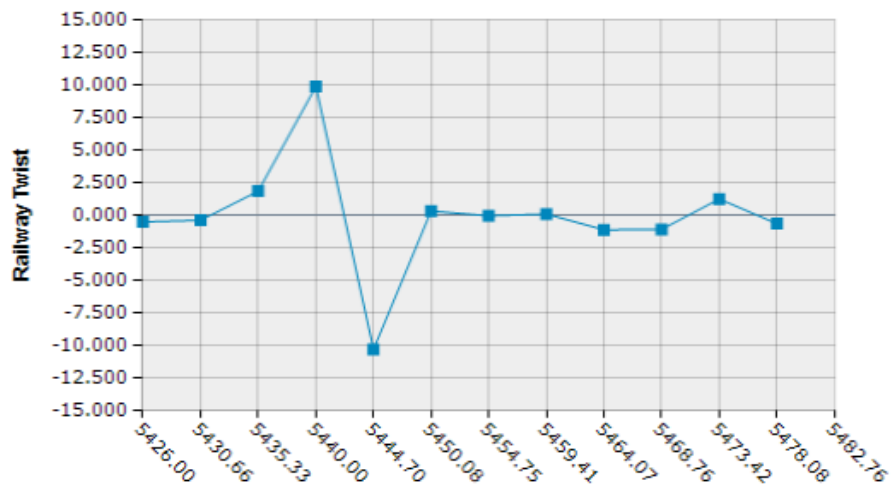
- **Railway template**
- **WiSen API integration**
- **General Improvements**

RAILWAY TEMPLATE

GeoMoS Now! v8.2 provides full support for Railway template calculations. Values from all railway calculations can be visualised and analysed in graphs, tables, maps and reports.

With the creation of each Railway Line in GeoMoS Monitor, a text document in the ImportExport folder inside the Monitor project folder is created and can be used to simplify the setup of the profile graph. The text file is containing the values for longitudinal and transversal profiles settings of the Standard Profile graph in GeoMoS Now!.

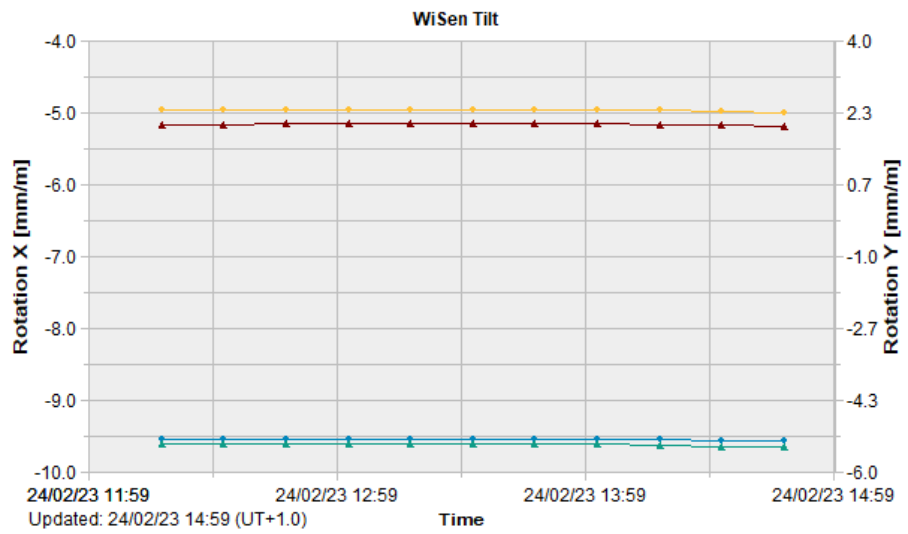
You can check the "How to video" on MyWorld in the Training Material for GeoMoS Monitor for a detailed workflow.



Updated: 24/02/23 11:55 (UT+1.0)

WISEN API INTEGRATION

GeoMoS Now! v8.2 provides full support for WiSen API integration. Values from all WiSen nodes and virtual nodes can be visualised and analysed in graphs, tables, maps and reports.



GENERAL IMPROVEMENTS

Further improvements and bug fixes are available in GeoMoS v8.2:

- Fixed issue where an observer could delete graphs in GeoMoS Now!
- Fixed issue where the outliers in graphs and tables didn't match
- Fixed issue for wrongly shown differences in Easting, Northing and Height for adjusted coordinates in Tables
- Fixed issue for login into GeoMoS Now! mobile version
- Fixed issue where in certain cases the TPS measurements are not shown in the graph

What's new in Version 8.1.1 (Service Pack 1) released May 2022

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- General improvements
-

GENERAL IMPROVEMENTS

Installer update:

- GeoMoS Now! installer now includes Microsoft SQL Server 2019 Express instead of Microsoft SQL Server 2012 Express version

Improvements:

- Improved drag&drop user experience with Google Chrome

Bug fixes:

- Calculation interval setting fixed for velocity graphs
- Issue with occasionally missing graph templates has been fixed
- Issue with opening tables when Microsoft SQL Server 2019 is used has been fixed
- Issues with editing graphs from overview or sites have been fixed
- Issue with the "Learn More" button on the Login page of the on-premises version has been fixed

What's new in Version 8.1 released December 2021

OVERVIEW

Leica GeoMoS Now! version 8.1 is an update from Leica GeoMoS 7.0 and newer versions. It includes significant improvements and new functionalities.

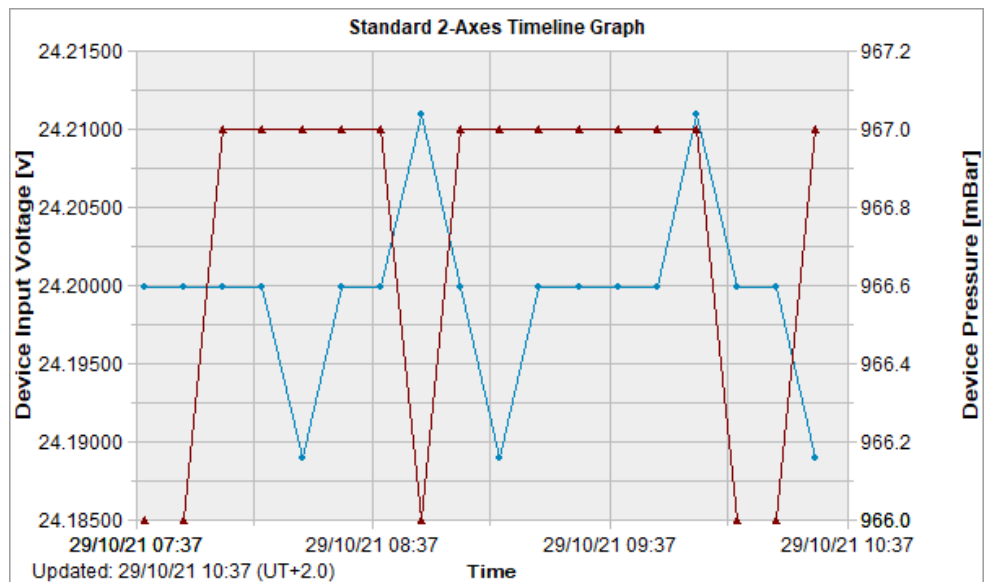
GeoMoS v8.1 requires a **valid CCP** with an expiry date after **30th November 2021**.

Overview of the highlights:

- **Leica ComBox60**
- **General Improvements**

LEICA COMBOX60

GeoMoS Now! v8.1 provides full support for Leica ComBox60. Data from all sensors connected to ComBox60 devices, as well as ComBox60's diagnostic sensors can be visualised and analysed in graphs, tables, maps and reports.



GENERAL IMPROVEMENTS

Further improvements and bug fixes are available in GeoMoS v8.1:

- Improved visualisation of raw total station measurements measured in one face only
- Fixed decimal places settings for Standard Bar Graphs and Point Details graphs
- Fixed Corrected Slope Distance visualisation in Timeline graphs
- Issue with the length of the title name of graphs has been fixed

COMPATIBILITY UPDATE

With GeoMoS v8.1 there is a change of supported operating systems and database versions.

Operating systems (*)

- Windows 10
- Windows 11 (NEW)
- Windows Server 2012
- Windows Server 2012 R2

- Windows Server 2016
 - Windows Server 2019
- (*) Only 64-bit mode on versions of Windows is supported

Database (*)

- Microsoft SQL Server 2012
- Microsoft SQL Server 2014
- Microsoft SQL Server 2016
- Microsoft SQL Server 2017 (NEW)
- Microsoft SQL Server 2019 (NEW)

(*) GeoMoS installation includes the Microsoft SQL Server 2012 Express version. In case a newer version or a different edition is needed (for bigger or long-running projects), the SQL Server needs to be installed separately.

What's new in Version 8.0.2 Service Pack 2 released July 2021

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- General improvements
-

GENERAL IMPROVEMENTS

Improvements:

- Maintenance announcement visible also for customers with brand labelling

Bug fixes:

- Issue with disappearing graph templates was fixed
- Labels on graphs with some custom observation type weren't displayed correctly

What's new in Version 8.0.1 Service Pack 1 released March 2021

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- General improvements
-

GENERAL IMPROVEMENTS

Improvements:

- Optimised push stability for bigger databases
- Graph visualisation within Reports

Bug fixes:

- Time-axis label was shown as "X Axis"
- Graphs and tables with scanning observation types (Median, Maximum Deformation and Deformation Volume) weren't shown correctly
- Issues with translations within Reports
- Smoothing of graphs with raw TPS measurements wasn't displayed correctly
- Labels on graphs with custom observation types weren't displayed correctly
- Graphs with Hz Corrected weren't shown correctly

What's new in Version 8.0 released November 2020

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- Full support for GeoMoS Edge
- General improvements

GeoMoS v8.0 requires a valid CCP with an expiry date after **15th November 2020**.

FULL SUPPORT FOR GEOMOS EDGE

GeoMoS Now! fully supports the new monitoring workflow with GeoMoS Edge. As soon as the data is available in GeoMoS Monitor, it will also be visualised in GeoMoS Now! on-premise deployment, whereas with the cloud deployment data will be visible after the successful push from the GeoMoS Monitor. This means, what even in the case of communication failure between GeoMoS Monitor and GeoMoS Edge, as soon as the connection is restored, there would be no data gaps in graphs, tables and maps.

GENERAL IMPROVEMENTS

Further improvements have been added to GeoMoS Now! v8.0:

- Updated [Technical Specifications](#) for the On-premise installation of GeoMoS Now!, as well as the list of supported browsers
- Bug fix for Reference to Null graphs for TPS measurements in Scatter Graphs, Standard Bar Graph and Standard Contour Graph
- Bug fix: issue with conversion of displacement units between m and mm solved for the On-premise and Survey Edition versions of GeoMoS Now!
- Bug fix: issue with "Show time on x-axis" setting for Null Bar Graph
- New icon available for GeoMoS Now! on-premise installation



- GeoMoS Now!

What's new in Version 7.3 Service Pack 4 released August 2020

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- Profiles in GeoMoS Now! Survey Edition
- Copy project settings from another view
- General improvements

PROFILES

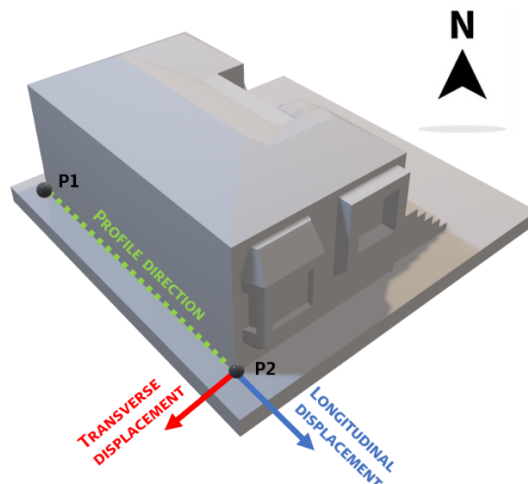
The new feature provides the possibility to create profiles in GeoMoS Now! Survey Edition.

Dashboard	Profiles
Overview	
Sites	
Reports	
Tables	
Search	
Graph Designer	
Configuration	
Overview	
Sites & Points	
Reports	
Import coordinates	
Limit classes	
Profiles	
Settings	

Name	Azimuth [dms]
Add new profile	
+ p1p2	168° 9' 20.22796"
+ p2p1	348° 9' 20.22796"

Introduction

GeoMoS Now! Survey Edition user can now define profile directions, with regards to which displacements will be calculated for the points belonging to the profile. Longitudinal displacement is calculated in the direction of the profile, whereas transverse displacement is orthogonal to it.



Example: Define a profile in the direction of the side of a wall, to monitor displacements of the structure.

Create and modify profiles

Selecting “Profiles” in Configuration menu enters the overview of Profiles. From there new profiles can be created by clicking on the “Create new profile” link. A two-step wizard guides through definition of the profile:

- Step 1: Profile name and azimuth definition (manually or by selecting start and end point of the profile)
- Step 2: Assigning points to the profile

Workflow

Once points are existing in the project, profiles can be defined, and points assigned to them. From that moment for all incoming data displacements are calculated with respect to defined profiles.

To reprocess displacements for the existing results, data needs to be re-imported (all files are available in project management).

COPY PROJECT SETTINGS

Project settings can now be copied from existing views when creating new projects (GeoMoS Now! Survey Edition) or new views (all GeoMoS Now! versions) within the EID.

Project creation

Please define a name for your new project

Project name *

Project description

Copy settings from

Distance unit

Time zone

Introduction

The following settings are copied between the projects/views:

- Units settings
- Time settings
- View settings
- Map settings
- Graph templates (without data)
- Report templates (without data)

Workflow

When creating a new project/view, select the view the settings will be copied from. This will greatly simplify recurring configurations between projects/views. If copy of the settings is not required, choose Default from the dropdown menu.

GENERAL IMPROVEMENTS

Further improvements have been added to GeoMoS Now! 7.3 SP4:

- Default Import Unit can now be defined in Units Management
- Improved graph series settings for coordinates from CSV Import

- Added support for special characters in Limit level descriptions
- Improved translations
- Improved handling of coordinate systems with projections and CSCS translations (trfset.dat containing CSCS files)
- Improved visualisation of In-Place Inclinator (IPI) graphs
- Fixed export of data from In-Place Inclinator (IPI) graphs
- Improved tables performance

What's new in Version 7.3 Service Pack 3 released July 2019

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- Deformation legend for scanning graphs
- General improvements

DEFORMATION LEGEND FOR SCANNING GRAPHS

Scanning graphs can now display the legend containing the colour bar, deformation range and a last modification date from the Scan Editor in GeoMoS Monitor. The legend is shown by default and will also be shown on the existing graphs. It is available only for graphs with 1 and 4 images on one page. It can be hidden in the graph template.



GENERAL IMPROVEMENTS

Smaller improvements have been added to GeoMoS Now! 7.3 SP3:

- Image and Scanning graphs are now showing timestamp in the same line as the point name. Therefore the timestamp cannot be hidden anymore.
- Re-ordering of graphs on the Dashboard has been improved
- Bug fix: In overview and sites maps time selection using start/end time was not working

What's new in Version 7.3 Service Pack 2 released May 2019

OVERVIEW






Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- Overview and Site settings stored
- General improvements

OVERVIEW AND SITE SETTINGS STORED

The settings set in the right-hand side menu on Overview and Site pages are now stored locally. That means that the same user, using the same browser on the same machine will have the same settings with the new login as configured with the last change.

Display ▲	
Points	Show sensors ▼
Point labels	Show all ▼
Displacement ▲	
Vector type	2D ▼
Vector 2D style	Components ▼
Ref.	Null ▼
Ref. length	0.022 ▼
Select time ▲	
Fix time	3 months ▼
Start	27/11/2018 15:1  
End	27/02/2019 15:1  
Refresh	

GENERAL IMPROVEMENTS

Smaller improvements have been added to GeoMoS Now! 7.3 SP2:

- Profile graphs have been improved and don't depend on direction of profile definition anymore. The existing graphs may be displayed differently after the update.
- Distributed series order has been improved for IPI graphs
- Table data download option for Observer is available
- Responsive design of the webpage has been improved
- Report generation has been optimised – big reports with headers and footers are now created much faster
- Bug fix: In timeline and standard bar graphs with multiple points, where at least one point had data for the selected period and one or more didn't have, no data was displayed in graphs
- Bug fix: Customisation of the main page has been fixed (brand labeling)
- Bug fix: Scaling of graphs for scanning observation types available also with target points (scan area)
- Bug fix: Outliers list available for tilt observation types

What's new in Version 7.3 Service Pack 1 released November 2018

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- Improved performance and service stability
 - General improvements
-

IMPROVED PERFORMANCE AND SERVICE STABILITY

More and more customers are attracted to Leica GeoMoS Now! software, as we introduce and release new features. The new service pack resolves some minor performance issues from the version 7.3 release, loading of the graphs and generating reports is now faster which increases the overall stability of the service.

GENERAL IMPROVEMENTS

Smaller improvements have been added to GeoMoS Now! 7.3 SP1:

- Bug fix: Limit names were not visible on horizontally displayed IPI graphs
- Bug fix: CSV download from the graphs was delivering empty files
- Bug fix: Database size was not visible in User Management for the cloud version
- Bug fix: Smoothing time range was not visible for the Dashboard graphs when 1 day of smoothing was selected
- Bug fix: 2-axes graphs with reference to Null were in some cases showing the absolute values

What's new in Version 7.3 released October 2018

OVERVIEW

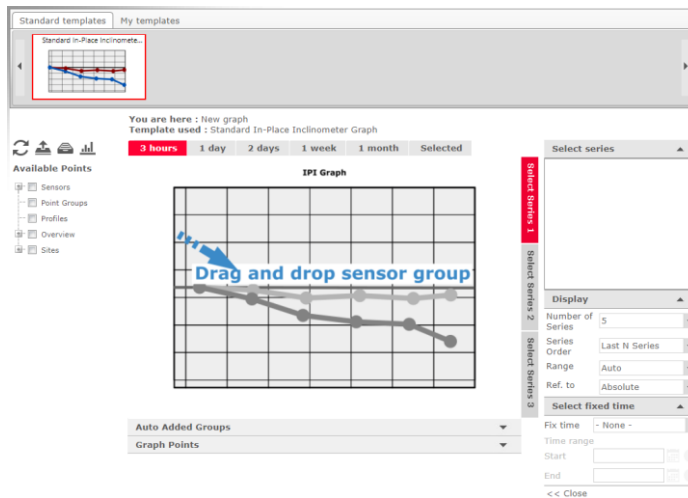
Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

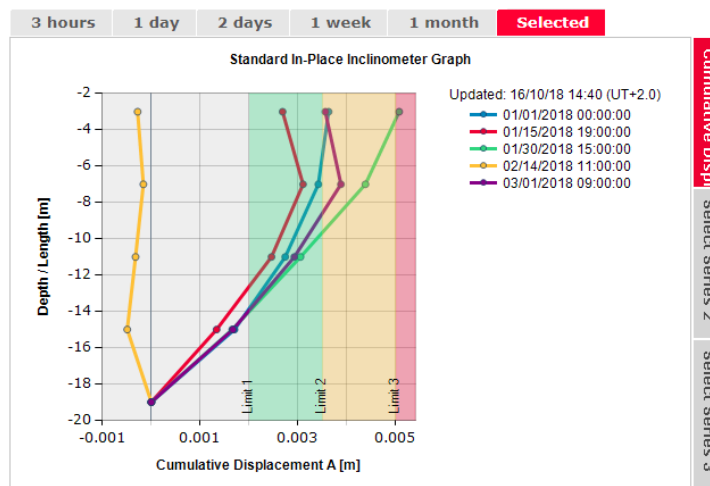
- In-Place Inclinator data visualisation
- Point tree structure changes for CSV Import and Virtual sensors
- Improvements in displaying limit information in graphs
- General improvements

IN-PLACE INCLINOMETER DATA VISUALISATION

The incremental and cumulative inclination displacements can be visualised by creating graphs in the Graph Designer, using the new Standard IPI Graph template.



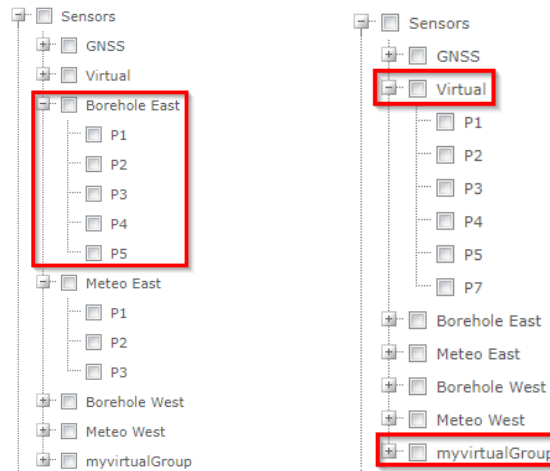
The graphs can be displayed vertically or horizontally. The borehole axis labels can either be the point names or the depth/length values. Maximum number of displayed series is 10, which can be either the last n series or distributed over time. Displaying the limit levels is supported.



POINT TREE STRUCTURE CHANGES

Until now, the point tree in Graph designer for CSV Import and Virtual sensors was structured in a way: Sensors – CSV Import / Virtual – “Point name”. In order to make it clearer and to be able to distinguish different CSV Imports and virtual

sensor groups, they are now listed by their name. Therefore, there can be multiple CSV Import sensors or virtual sensor groups in the tree and each of them contains only the points belonging to it. For Virtual sensors, there is still the sensor “Virtual”, containing all points with virtual sensors, as it’s not mandatory that they are grouped. This simplifies the creation of the graphs as well, e.g. the In-Place Inclinerometer graphs, which can be created quickly by drag & dropping the entire borehole, instead of selecting point by point.

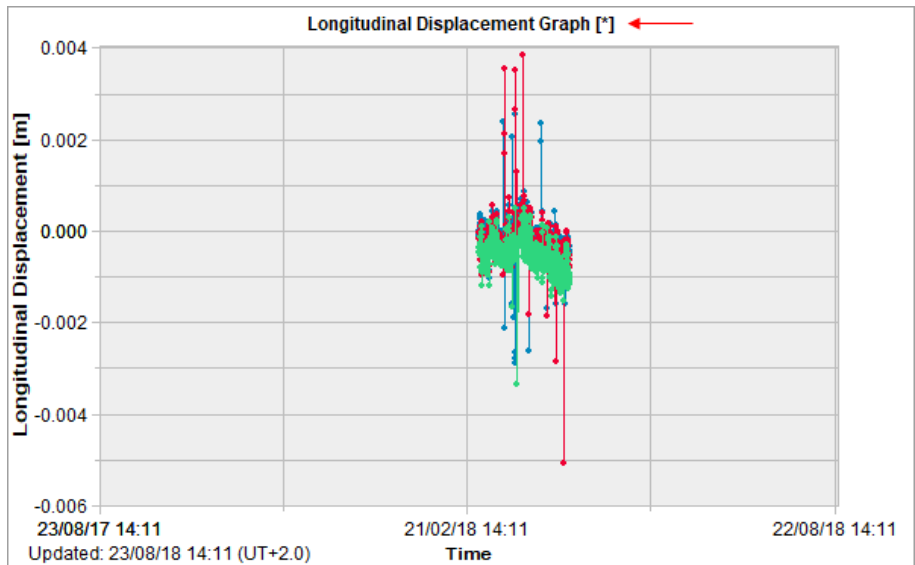


LIMIT INFORMATION DISPLAYING IMPROVEMENTS

Improvements have been added to the logic of displaying the limit information in the graphs. Following logic is being respected in the graphs:

- 1-Axis Timeline and Null Bar Graph
 - Reference to Absolute → limit levels are shown if all points have the same null measurement value for the selected observation type
 - Reference to Null → Limit levels are shown regardless from the null measurement values
 - Reference to Relative → Limit levels are shown if there is only 1 point in the graph
- 2-Axes Timeline Graph:
 - Limits are always shown only for the left-hand side axis
 - The logic for showing the limits is the same as for 1-Axis Timeline Graph
- Profile and In-Place Inclinerometer Graph:
 - Reference to Absolute → limit levels are shown if all points have the same null measurement value for the selected observation type
 - Reference to Null → Limit levels are shown regardless from the null values

In case the limit levels are active, but can't be shown, there will be a [*] indicator at the end of the graph title. Detailed explanation can be found in Graph Template Settings.



Limit information settings

[*] Warning: The selected observation type (series) is not defined in this limit class.

Limit information

Limit class

Important note: Due to aforementioned changes in limit information logic, the existing graphs may be displayed differently after the update.

GENERAL IMPROVEMENTS

Additional improvements have been added to GeoMoS Now! 7.3:

- Horizontal distance from levels is available in Graph Designer
- Graph updates from the Report templates are now available
- Default units for new custom units are taken from GeoMoS Monitor (standard unit or description)
- Displaying of point labels in the maps has 3 options now, instead of only On/Off:

Display	
Points	Show sensors
Point labels	Show readable
Displacement	
Vector type	Show all
Vector 2D style	Show readable

- Axes names Northing and Easting are displayed for vector graphs
- In the View Management, it's now clearly indicated with red text when the project database, the view is linked to, has been deleted



Name	GeoMoS Monitor DB	Monitor DB size [MB]	Description	Created	Action
Deleted DB	Deleted DB	--		24/09/2018 10:30:38	

- Bug fix: Graphs with observation types which belong to TPS raw measurements (Hz/V angle, slope distance) were showing the same values when using reference to absolute and reference to null in timeline graphs. This has been fixed and it will cause the changes in existing graphs with reference to null after the upgrade.
- Bug fix: Changing title in 2-Axes Velocity Graphs was sometimes causing graph range settings going back to default. From this version this issue is fixed.
- Bug fix: Site names containing the ' character were not displayed correctly in the map. From this version this issue is fixed.
- Bug fix: View names starting with space character had problems with Brand labeling. It is not allowed to name the view starting or ending with space character anymore.
- Bug fix: Displaying of raster image layers on the maps with defined settings.

What's new in Version 7.2 Service Pack 2 released May 2018

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- Visualisation and analysis of adjusted results
- Improvements in Vaisala precipitation sensor reading
- General improvements

ADJUSTED RESULTS

Adjusted results and statistics can now be visualised and analysed in GeoMoS Now!. Following new data can now be shown in map's Point Details, graphs, and Tables:

- Adjusted 2D and 3D Vector
- Adjusted Easting / Northing / Height
- Adjusted Easting / Northing / Height Difference
- Adjusted Transverse / Longitudinal / Height Displacement
- Error Ellipse Major / Minor Axis
- Error Ellipse Major Axis Orientation
- Significant Deformation

Maps:

- Show vectors from adjusted results

VAISALA SENSOR

Vaisala precipitation reading has been improved. From this version, besides the rain and hail intensity, the following new Vaisala observations can be analysed and visualised in GeoMoS Now!:

- Rain and Hail Duration
- Rain and Hail Accumulation

The data can be visualised in graphs, Point Details and Tables.

Table: Vaisala 05/03/18 17:12 - 05/04/18 17:12 (max. 20000 records)

Outlier	Epoch	Temperature [C]	Pressure [mBar]	Humidity [%]	Wind Direction [gon]	Wind Speed [m/s]	Rain Intensity [mm/h]	Hail Intensity [hits/cm2h]	Rain Accumulation [mm]	Hail Accumulation [hits/cm2]	Rain Duration [s]	Hail Duration [s]
	29/03/18 14:30	23.0	958.5	35	143.3333	0.0	0.0	0.0	0.0	0.0	0	0
	29/03/18 14:28	23.0	958.5	35	28.8889	0.1	0.0	0.0	0.0	0.0	0	0
	29/03/18 14:26	23.0	958.5	35	183.3333	0.1	0.0	0.0	0.0	0.0	0	0
	29/03/18 14:24	23.0	958.5	35	23.3333	0.1	0.0	0.0	0.0	0.0	0	0
	29/03/18 14:22	23.0	958.5	35	50.0000	0.1	0.0	0.0	0.0	0.0	0	0
	29/03/18 14:20	23.0	958.5	35	5.5556	0.1	0.0	0.0	0.0	0.0	0	0
	29/03/18 14:19	23.0	958.5	35	5.5556	0.1	0.0	0.0	0.0	0.0	0	0
	29/03/18 14:18	23.0	958.5	35	3.3333	0.1	0.0	0.0	0.0	0.0	0	0
	28/03/18 11:22	23.0	961.0	37	155.5556	0.1	11.4	0.0	190.0	0.0	20	0
	28/03/18 11:20	23.0	961.0	32	217.7778	0.0	0.0	0.0	0.0	0.0	0	0
	28/03/18 11:19	23.0	961.0	32	162.2222	0.0	0.0	0.0	0.0	0.0	0	0
	29/03/18 14:38	23.1	958.4	34	38.8889	0.1	30.6	2.0	850.0	0.2	50	40

GENERAL IMPROVEMENTS

Smaller improvements have been added to GeoMoS Now! 7.2:

- Bug fix: automatic reports were sometimes missing images
- Bug fix: scan observation types were not visible in Graph Designer
- Stability of the GeoMoS Now! cloud version has been improved

What's new in Version 7.2 Service Pack 1 released February 2018

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- Optimisation of outlier calculation performance
 - General improvements
-

OUTLIER CALCULATION PERFORMANCE

The outlier performance has been significantly improved, up to five times faster calculation. This is particularly noticeable with large amount of data included in the calculation.

GENERAL IMPROVEMENTS

Smaller improvements have been added to GeoMoS Now! 7.2:

- Bug fix: The paging in outliers section in graphs with custom observations has been fixed.
- Performance for graphs with reference to null value has been optimised.

What's new in Version 7.2 released January 2018

OVERVIEW

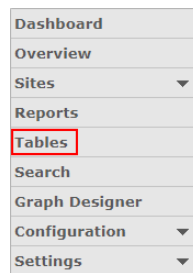
Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- **New:** Tables
- General improvements

TABLES

The new Tables feature provides a tabular overview of results and observations. The page can be found in the navigation window (left menu) in GeoMoS Now!.



The user is now able to get the numeric visualisation and analysis of database values. The main page Table Management consists of the overview of the existing tables and the Outlier tool.

Table Management			Outliers
Name ↕	Description ↕	Modified Date	Action
Add New Table			
Results_monthly	Monthly overview of results	08/11/2017 11:56	
Daily average results 2017	Year 2017 daily average results	08/11/2017 11:56	
Observations_meteo	Meteorological observations	08/11/2017 11:56	

The Outlier tool allows the user to search for outliers through all the records in results and observation tables in the selected period of time. Outliers are automatically flagged, but their state can be modified inside the table grid.



Three types of tables can be created: results, daily average results and observations. All of them are easily created in a 3-step wizard, where the user configures the content of the table, e.g. select points and columns. Each table can be exported in CSV format.

Table: Result analysis 09/11/2016 10:43:06 - 09/11/2017 10:43:06

Outlier	EPOCH	Point	Profile	Point Group	PPM Type	H ₂ [ppm]	V [ppm]	Slope Distance [m]	Reference PPM	Pressure [mBar]	Average Temperature [C]	Additive Constant [m]	Target Easting [m]	Target Northing [m]
	25/08/2017 10:51:43	GM-04-D		Messpunkte_M2	Atmospheric	65.1841	105.5112	35.757	22.59028	966.60	22.7	0.000	4479109.332	5362191.156
	25/08/2017 11:05:22	GM-04-D		Messpunkte_M2	Atmospheric	65.1849	105.5119	35.757	25.14785	966.30	24.4	0.000	4479109.332	5362191.156
	25/08/2017 12:05:20	GM-04-D		Messpunkte_M2	Atmospheric	65.1842	105.5120	35.757	26.20692	966.20	25.6	0.000	4479109.331	5362191.157
	25/08/2017 13:05:22	GM-04-D		Messpunkte_M2	Atmospheric	65.1858	105.5127	35.757	27.42191	965.80	26.9	0.000	4479109.331	5362191.157
	25/08/2017 14:05:20	GM-04-D		Messpunkte_M2	Atmospheric	65.1860	105.5122	35.757	28.65782	965.60	28.3	0.000	4479109.331	5362191.157
	25/08/2017 15:05:21	GM-04-D		Messpunkte_M2	Atmospheric	65.1860	105.5121	35.757	29.79433	965.10	29.5	0.000	4479109.331	5362191.157
	25/08/2017 16:05:20	GM-04-D		Messpunkte_M2	Atmospheric	65.1861	105.5126	35.757	30.37230	964.80	30.1	0.000	4479109.331	5362191.157
	25/08/2017 17:05:20	GM-04-D		Messpunkte_M2	Atmospheric	65.1859	105.5122	35.757	30.17538	964.00	29.8	0.000	4479109.331	5362191.157
	25/08/2017 18:05:19	GM-04-D		Messpunkte_M2	Atmospheric	65.1863	105.5124	35.757	29.78037	964.20	29.2	0.000	4479109.331	5362191.157
	25/08/2017 19:05:21	GM-04-D		Messpunkte_M2	Atmospheric	65.1857	105.5121	35.757	29.27564	963.90	28.5	0.000	4479109.331	5362191.157
	25/08/2017 20:05:19	GM-04-D		Messpunkte_M2	Atmospheric	65.1856	105.5124	35.757	27.70239	964.10	26.7	0.000	4479109.331	5362191.157
	25/08/2017 21:05:20	GM-04-D		Messpunkte_M2	Atmospheric	65.1857	105.5124	35.757	26.50764	964.20	25.4	0.000	4479109.331	5362191.157
	25/08/2017 22:05:20	GM-04-D		Messpunkte_M2	Atmospheric	65.1857	105.5124	35.757	25.81534	963.80	24.4	0.000	4479109.331	5362191.157
	25/08/2017 23:05:20	GM-04-D		Messpunkte_M2	Atmospheric	65.1854	105.5127	35.757	24.05718	964.10	23.6	0.000	4479109.331	5362191.157

180 rows per page

MONITOR DB SIZE

A new column "Monitor DB size" has been added to Views Management table. It contains the information about the size of projects of the GeoMoS Monitor database.

GENERAL IMPROVEMENTS

Smaller improvements have been added to GeoMoS Now! 7.2:

- Column "Next report" added to Reports page
- Search page results improved
- Fix: list of available points under Sites in Graph Designer
- Fix: old pages are not in cache anymore after any software update
- Fix: sudden reboot without alert in some cases when updating GeoMoS Now! On-premise
- Fix: Image Capture points listed in Point Assistant under Sensors

What's new in Version 7.1 released August 2017

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- **New:** GeoMoS Image Capture
- **Improvement:** Point Management
- **Announcement:** GeoMoS Now! limit for the database size
- Limit check comparison method
- General improvements

GEOMOS IMAGE CAPTURE

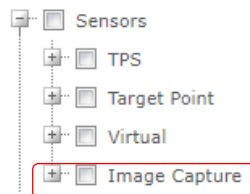
The new GeoMoS Image Capture feature can be visualised in GeoMoS Now! in two ways: in Graph Designer and in Point Details.

Graph Designer

In Graph Designer Image Captures can be visualised using Standard Images template. There is a new Image Capture sensor available, where all captured images are listed and can be selected for visualisation. Images which are linked to the point can also be visualised from Target Point list.

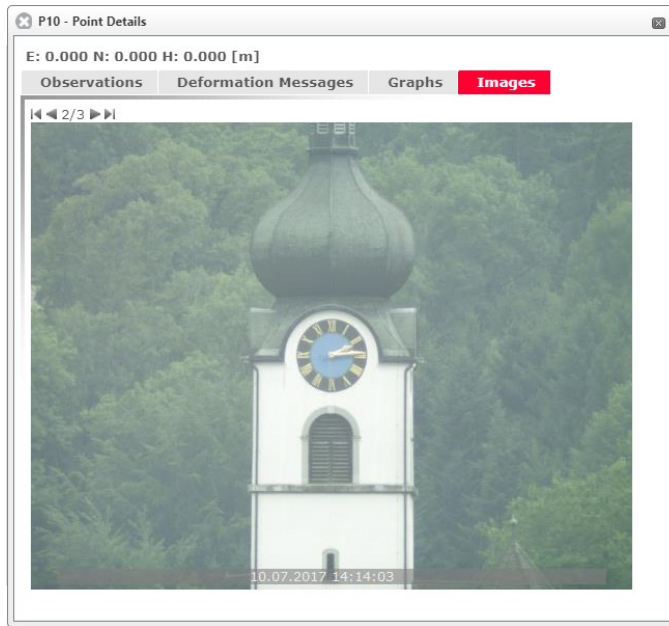


Available Points



Point Details

All images which have been linked to points (from webcams, image imports or image captures) can be visualised from Overview or Site map. Clicking on point icon opens a Point Details dialog, where the new tab Images is located. Images are ordered chronologically. There is a timestamp on each image and arrows above it for navigation.

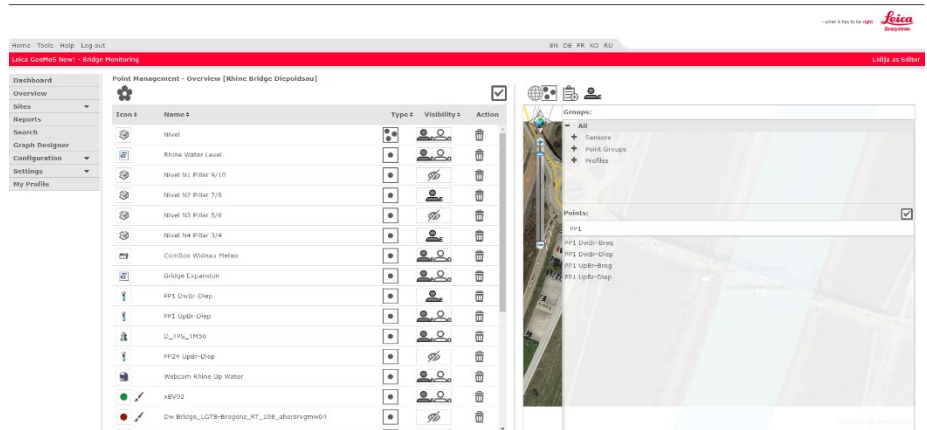


POINT MANAGEMENT

Complete reengineering of Point management has been done for simpler and more intuitive use.

Organisation

The main page of Point Management consists of two parts: on the left side there is the settings table, with a list of points added to the overview/site, and on the right side there is the 2D map/image over which the Point selector can be overlaid.



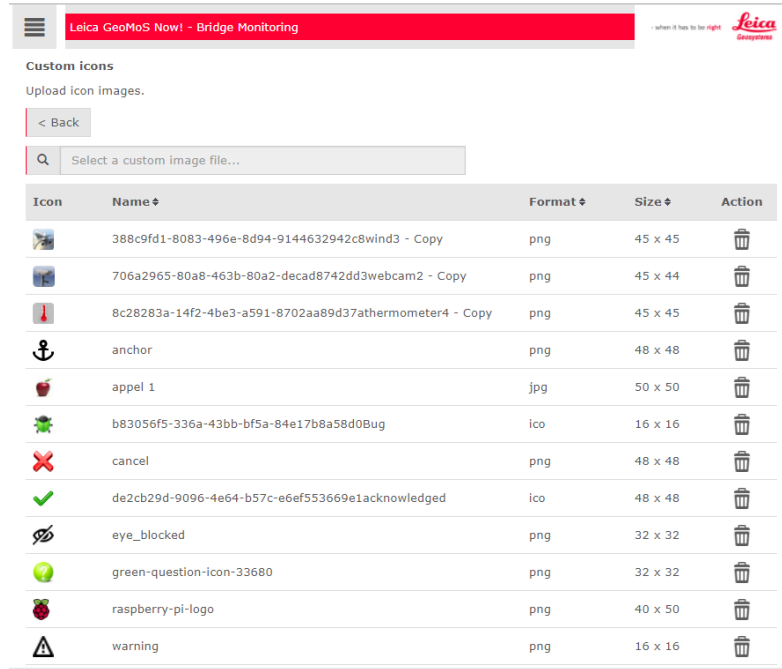
Point selector

In Point selector it is very easy to filter and select points to be added to the site or overview. All points which have been added are automatically positioned on the map or can be positioned manually on image background.

Icons

Different icons can be assigned to each point group or standalone point. There are

two sets of icons: Standard icons, which are offered by default, and Custom icons, which are uploaded by user on Custom icons site. For standard icons circle, rectangle and triangle the colour can be changed.



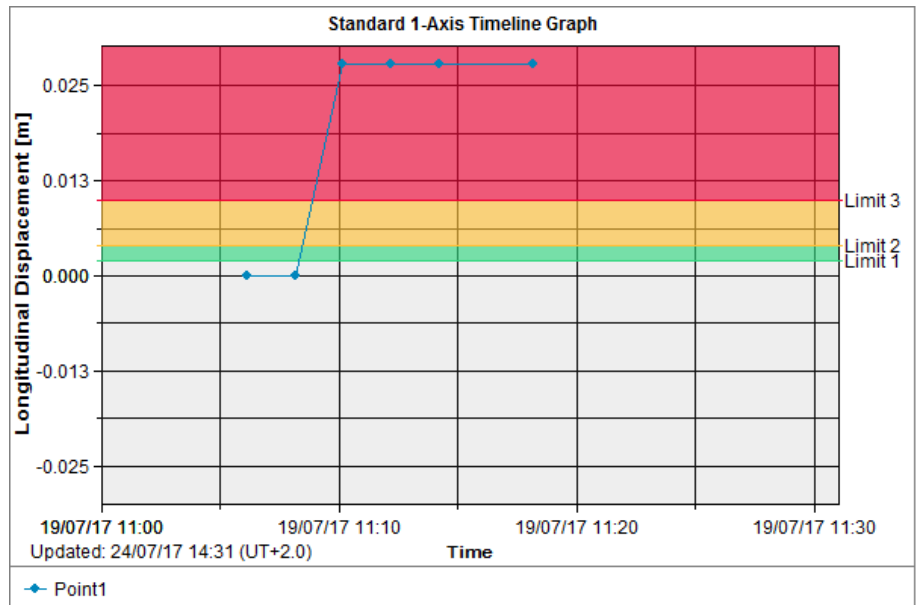
ANNOUNCEMENT FOR GEOMOS v.7.2:

GEOMOS NOW! LIMIT FOR THE DATABASE SIZE

With the release of GeoMoS v7.1 we provide new image based functionality and video. Image handling and storage could increase the SQL server database size significantly. For the free of charge version of Microsoft SQL Server, the database size is limited to 10 GB. In GeoMoS Monitor we provide data reduction functionality to stay inside this limit. The same database size limit of 10 GB is valid for the GeoMoS Now! Subscription in the cloud. Either data reduction functionality will be activated on the cloud or a licence for advanced storage up to 1TB can be ordered. For more details please contact the monitoring support.

LIMIT CHECK COMPARISON METHOD

In Graph Designer it is now possible to visualise 3 limit check comparison methods for absolute limit checks pre-set in GeoMoS Monitor: Above, Below, Above and Below.



GENERAL IMPROVEMENTS

Smaller improvements have been added to GeoMoS Now! 7.1:

- Improvements in Import coordinates table
- Unlimited number of points in Vector and Contour graphs
- Bug fix: visualisation of adjusted coordinates from GeoMoS Adjustment
- Cosmetic bugs

What's new in Version 7.0 Service Pack 1 released February 2017

OVERVIEW

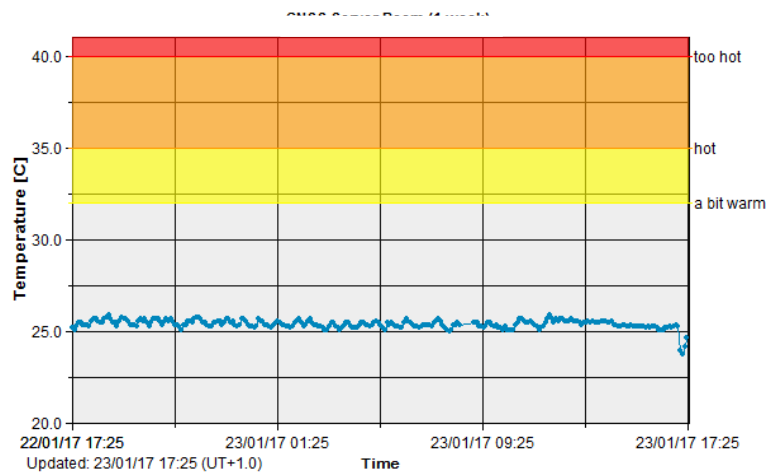
Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- **New:** Limit classes for GeoMoS Now! Survey Edition
- Setup menu renamed to Configuration menu
- General improvements

LIMIT CLASSES

The new feature provides the possibility to create limit classes and show them on the graphs in GeoMoS Now! Survey Edition. Limit classes are available in Cloud version only.



Introduction

In order to be able to visualise shifts and deformations divided by their amount into classes, the Limit classes feature has been introduced in GeoMoS Now! Survey Edition. The main purpose of Limit classes feature is visualisation on graphs and is not to be confused with limit checks.

Create and modify limit classes

Selecting "Limit classes" in Configuration menu enters the overview of Limit classes. From there limit classes can be created by clicking the following link:

[Add new limit class](#)

Also, there is a tooltip with the explanation how to create limit classes successfully.

Once selected, the user enters the Edit limit class page, where a name of the class is defined and observation types from the dropdown menu are picked.



For each observation type 3 limit values can be set. Selecting Save button leads the user back to the overview page, where limit classes can be edited, copied as a new class or deleted.

CONFIGURATION MENU

The old Setup menu has been renamed to Configuration menu in order to distinguish it more easily from Settings menu.

GENERAL IMPROVEMENTS

Smaller improvements have been added to GeoMoS Now! 7.0:

- Bug fix: In Graph designer for GeoMoS Now! Survey Edition it is now possible to select minimum/maximum values for any observation result type.
- Cosmetic bugs

What's new in Version 7.0 released October 2016

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

- **New:** GeoMoS Now! Survey Edition
- TPS Monitoring App
- Change in user rights for Administrators
- *Change project* functionality
- New licenses for On-premises installation

Important: To use the Leica GeoMoS Now! **On-premises** version 7.0, install or upgrade to Leica GeoMoS Monitor version 7.0.

GEOMOS NOW! SURVEY EDITION

The modified version of GeoMoS Now! visualisation and reporting tool has been introduced for the surveying community.

Introduction

Many surveyors deal with campaign projects where control measurements of points or objects are daily routine. In many cases these projects include one or only a few sensors and normally do not require any sort of communication infrastructure between the instrument and processing software. Measurements are performed with surveyors actively using the total station or digital level and storing the data for processing and visualisation back in the office. This process usually includes spread sheets or in-house developed tools, and requires considerable time and effort to produce a report to interested parties.

GeoMoS Now! Survey Edition has been introduced for all campaign or control measurements tasks, which do not require a permanent and complex monitoring installation. This tool offers all the visualisation and reporting functionalities of the standard GeoMoS Now! yet does not require the installation of GeoMoS Monitor. Instead, data can now be uploaded directly to GeoMoS Now! service.

Data

GeoMoS Now! Survey Edition supports the coordinate files from any total station, be it Leica Geosystems or third party, provided that the data has been stored in Leica Geosystems format. It supports comma separated ascii files with the following structure.

ID	Easting	Northing	Height	Date/Time [yyyy-MM-dd HH:mm:ss.fff]
--	-----	-----	-----	-----
M1,	0.0000,	5.5905,	1.42327,	2016-02-15 15:04:15.180
M2,	2.4147,	5.0985,	1.49044,	2016-02-15 15:04:27.570
M3,	-1.1834,	-1.4585,	-0.06980,	2016-02-15 15:04:29.300
M3,	-1.1760,	-1.4640,	-0.06936,	2016-02-15 15:04:52.020
M1,	-0.0279,	5.5898,	1.42320,	2016-02-15 15:05:00.640
M2,	2.3893,	5.1101,	1.49029,	2016-02-15 15:05:06.590
M3,	-1.1758,	-1.4645,	-0.06917,	2016-02-15 15:05:27.110
M1,	-0.0279,	5.5896,	1.42317,	2016-02-15 15:05:32.950
M2,	2.3893,	5.1101,	1.49030,	2016-02-15 15:05:37.750
M3,	-1.1756,	-1.4645,	-0.06906,	2016-02-15 15:05:58.240
M1,	-0.0279,	5.5897,	1.42322,	2016-02-15 15:06:04.220
M2,	2.3894,	5.1102,	1.49034,	2016-02-15 15:06:09.440

In addition to total station measurement data, GeoMoS Now! Survey Edition supports the measurement data from Leica Geosystems digital levels.

Subscription and licenses

To begin using GeoMoS Now! Survey Edition in the cloud version, a valid subscription ID has to be purchased. For the On-premises variant, the functionality is included in the standard license.

A trial license is available for cloud users to test and get used to the tool.

Note: The subscription period starts from the date of purchase, and not from the first activation date!

First time use of GeoMoS Now! Survey Edition

Upon successful activation and log in, users can begin by creating a new project, or selecting an already created project view.

When logging in for the first time, a user will log in with Administrator credentials. An Administrator can create new projects as well as new users with Editor and Viewer roles. To do so, an Administrator can click on the user icon in the upper right corner of the GeoMoS Now!.



The standard user and view management window will open. Clicking on the Home button in the upper left corner the Administrator can go back to the start screen.

On the start screen two options are available:

- Project management
- Project view selection

Project management

Project management allows the user to create a new project. The following entries are required to successfully create a new project:

- Project name
- Distance unit
- Time zone.

A project description is optional. The distance unit can be changed later within the project when the selected time zone is fixed.

When a new project is created, a view with the same name will be added to the list below. To create another view of the same project, please use the User and Views management described above.

The project management table offers action icons, such as edit, delete and backup of the project database, to manage the created project.

Project view selection

Created project views will be listed here. This section offers two actions:

- Start GeoMoS Now!
- Import coordinates

When using the view for the first time, no content is available as no data has been imported. Hence, the first step will be to click on the Import coordinates button. Alternatively, user can also click on Start GeoMoS Now! and import coordinates by using the left hand menu.

Note: An Administrator can see all project views, even those assigned to Editors and Viewers.

Import coordinates

The Import coordinates page allows the user to import measurement data. All data files that have been imported but not stored in GeoMoS database will be listed here. The files sent directly using the TPS Monitoring App (see in following chapters) will be also shown here.

Note: If the data files are listed here, this means that they are not yet used in GeoMoS Now! and not stored in GeoMoS database.

With the Upload new file link users can add the coordinate file to the file list.

[Upload new file](#) 

The file will be validated for the format before being added to the list.

All uploaded files are listed in the table below. Click on the file name if you want to download it. This useful functionality applies to all files but particularly the files sent directly from the TPS that are not yet stored in the file system. Use the delete icon to remove the uploaded file.


Imported, but not yet stored files from other projects will be also visible here for the Administrator.

To store and visualise data, mark the check box and click on the Next button. Make sure you have selected the correct units for the selected file. Should the units differ from the units selected for the project, this will help ensure the correct unit transformation.

Data management

After uploading a file, all data will be displayed. If more measurements are available for the same point, the first epoch will be selected as the null


measurement and marked with the  icon. All other measurements will therefore have calculated the offset value to the null coordinates. If you wish to

use a coordinate from another epoch as a null value, click on  icon.

The following action icons are available for imported coordinates:

- The Edit icon – to manually manipulate imported coordinates.
- The Delete icon – to delete coordinates for the selected point and epoch.
- The File icon – to inform that the value originates from an imported file.

Imported coordinates that do not pass the blunder check will be marked in red and

with the following icon . Blunder check settings can be changed in the Settings section above the coordinate list.

Confirm the data import with the Finish button. Automatically, the Dashboard page appears where initial graphs have been created based on the imported measurements. From this point forward, all GeoMoS Now! functionalities can be used as standard GeoMoS Now! users. These include: creating sites, graphs, reports, adding maps, etc.

Further measurements can be added by using the Settings → Import coordinates functionality in the left hand menu. The import of new points to the same project is also supported; these will be added to the existing point list.

When importing new data, the data already imported will be hidden by default. They can also be listed in the table by clicking on Show all data button at the top of the coordinate table. Those already imported measurements will not have the File icon anymore, as they now originate from GeoMoS database.

Switching to classic GeoMoS Now!

With GeoMoS Now! On-premises, users can have both the classic GeoMoS Now! and the Survey Edition version on the same account. All data is written to the same database and does not clash.

The Cloud offers the option of using either classic GeoMoS Now!, where the data originate from GeoMoS Monitor, or the Survey Edition version, where the data are uploaded directly to the Cloud.

The transition from the Survey Edition version to classic GeoMoS Now! is supported and is particularly useful when permanent monitoring replaces campaign monitoring.

In order to move to permanent monitoring, it is necessary to:

- Back-up the GeoMoS Now! Survey Edition projects (databases).
- Import the database in local GeoMoS Monitor
- Purchase a valid subscription ID and push the data to new subscription.

With help from the Monitoring Support team, already set View from the GeoMoS Now! SE can be moved to the new subscription.

TPS MONITORING APPLICATION

A new application is available for high-end Leica total stations, for the following Captivate and SmartWorx sensors:

- MS/TS60
- MS/TM/TS50
- TS15/TS16

If Internet communication is available, measurement data can be sent directly from the instrument to the GeoMOS Now! account. Depending on the account used, data will be sent either to the Administrator or Editor account.

Note: Administrator can see and access all uploaded files, whereas the Editor can only access the files sent to Editor's account.

Sent data will be listed in the Upload coordinates area under the following name structure:

YYYYMMDD_HHmms_<jobname>.txt

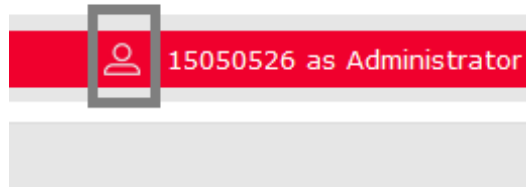
If needed, data can be downloaded and stored from here.

CHANGE IN USER RIGHTS FOR ADMINISTRATORS

The access to Users and Views management has changed even for classic GeoMoS Now! users.

As of this version, the Administrator can edit the project view. Hence, when logging in with the Administrator credentials, the user can choose a view to edit from the dropdown list. Here the Administrator can see all available Editor views under his supervision.

To access the Users and View management, click on the icon in the upper right corner.



The classic Users and Views management page will open, and the Administrator can create additional users, views and links between them.

CHANGE PROJECT VIEW FUNCTIONALITY

As of this version, it is no longer necessary to log out to change the project view. While in the current view, simply click on the project name in the upper left corner of your screen.



The Project view selection page will open with the dropdown list of all available project views for this account.

NEW LICENSES FOR ON-PREMISES INSTALLATION

GeoMoS Now! On-premises version can be now installed using a perpetual license. This license requires a valid CCP, and is not a subscription, hence it doesn't have to be renewed at regular time intervals.

Following licenses and license options are available:

848 762	GeoMoS Now! Perpetual license including 2 users and 100 points per view.
848 763	GeoMoS Now! Additional User for perpetual license
848 764	GeoMoS Now! 600 Points Option for perpetual license
848 765	GeoMoS Now! Unlimited Points Option for perpetual license

What's new in Version 6.6 released June 2016

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of the highlights:

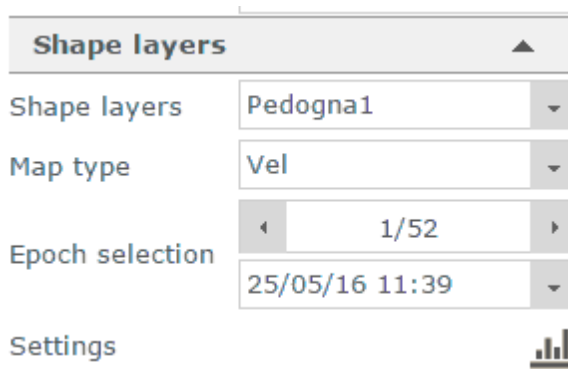
- View shape files on Overview and Site maps and images
- Enlarge the view of Dashboard graphs

Important note: To use the Leica GeoMoS Now! **On-premises** version 6.6, install or upgrade to Leica GeoMoS Monitor version 6.6!

VIEW SHAPE FILES ON OVERVIEW AND SITE MAPS AND IMAGES

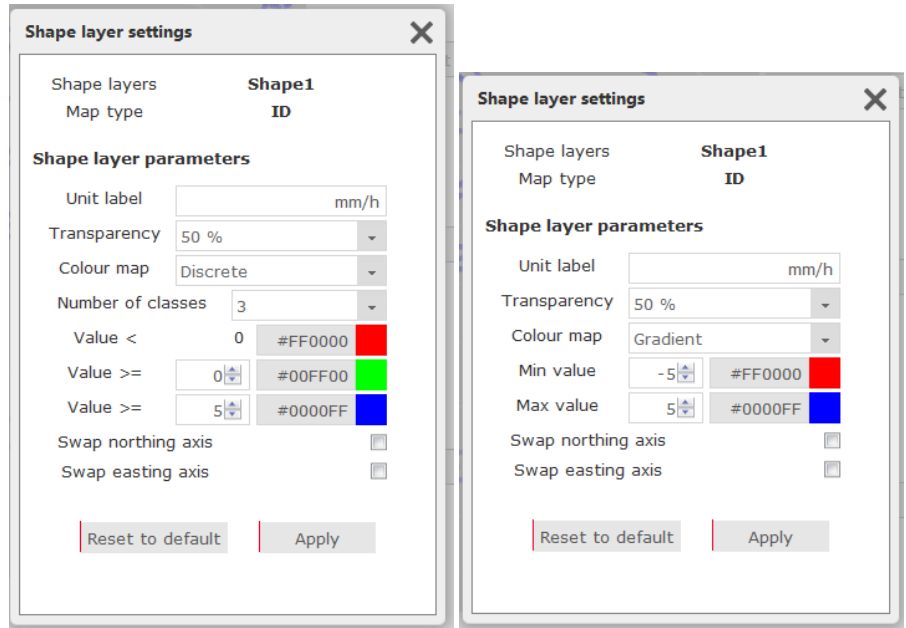
The shape files which have been imported, stored and pushed from GeoMoS Monitor can be displayed on Overview and Site maps and images. When the shape file coordinates fit to those of other GeoMoS sites, the overlay shape file will be correctly displayed on selected location.

When the shape files are available, the right side of the Overview/Site menu will be extended with additional options to set the viewing of shape file layer.



Contrary to the layers added to the Map management page, these layers are dynamic. This means, the shape layers will be constantly updated whenever new shape layers are imported via GeoMoS Monitor. By default the last available shape layer is shown. Using the Navigation menu or Session selection menu, it is easy to navigate through a shape layer's history. The Map type will show all types of shape files defined in GeoMoS Monitor for the selected shape layer.

In addition, the visual display of the selected shape layer can be adjusted using the settings icon at the bottom of the Shape layers menu.

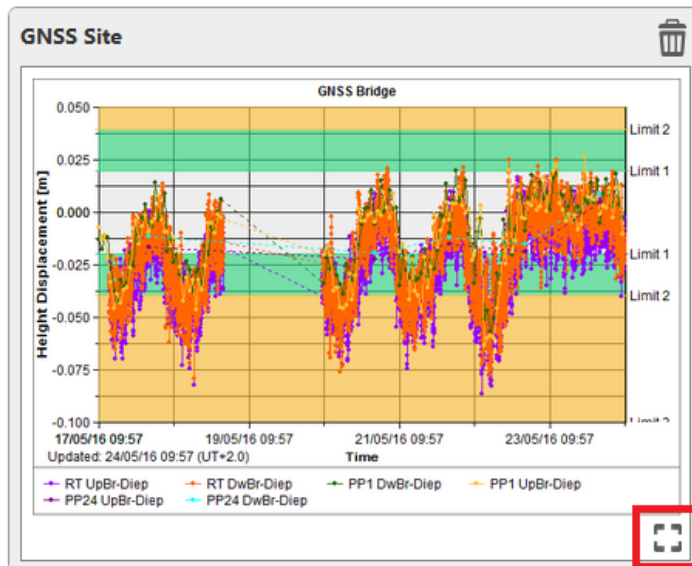


Settings for shape layer transparency and color map can be set. The latter will cause the dynamic change of parameters to be set, depending which color map type (discrete or gradient) has been chosen.

Keep in mind that the Shape layer menu takes into account the time selection in the lower right of the menu. To see more of the shape layer's history, simply increase the time range of the Overview or Site.

ENLARGE THE VIEW OF DASHBOARD GRAPHS

Zoom functionality has been added to Dashboard graphs. The zoom icon is found at the bottom of the graph.



When clicked, the selected graph will fill the screen. This functionality provides a better, more detailed view of the graphs, and therefore better measurement analysis.

Paging functionality is also available in zoomed form. Navigation through graph pages is done via icons located in the upper left corner.

To close the zoom mode, click either on the close icon in upper right corner or click outside of the image.

What's new in Version 6.5 released April 2016

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of highlights:

- Support of image import, new graph type Standard Images
- Improved viewing of images
- Displacement vectors on Overview and Site maps and images
- Point labels on Overview and Site maps and images

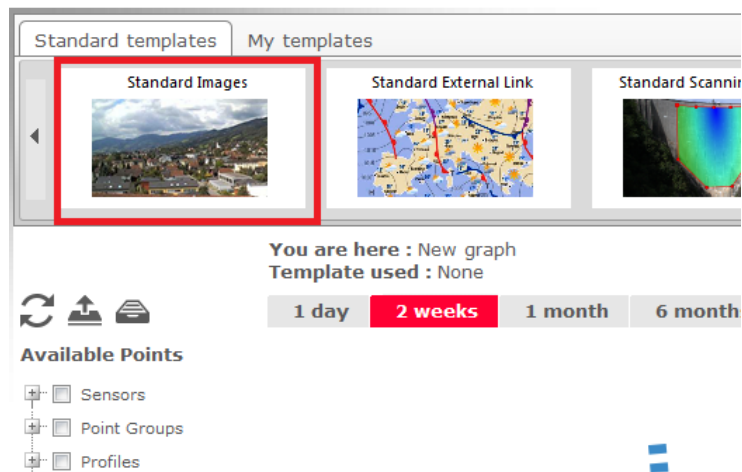
Important note: To use the Leica GeoMoS Now! **On-premises** version 6.5, install or upgrade to Leica GeoMoS Monitor version 6.5!

SUPPORT OF IMAGE IMPORT

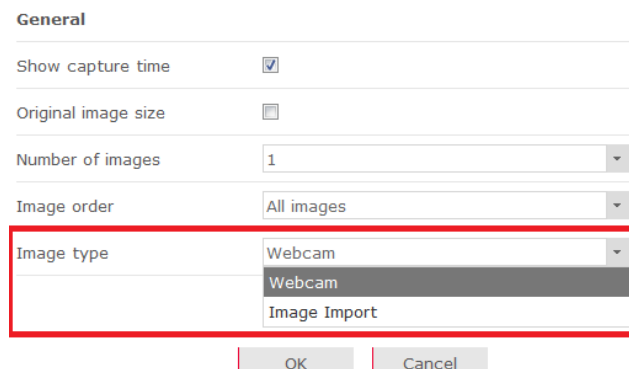
GeoMoS Now! supports viewing and analysis of images imported to the GeoMoS Database via the newly released Image Import functionality. The images imported from the local drive are now visible in GeoMoS Now!.

Image viewing functionality in GeoMoS Now! is similar to Webcam images viewing. Therefore these two functionalities were merged.

The graph type Standard Webcam has been renamed to Standard Images, and it serves both images imported from a local drive and webcam images.

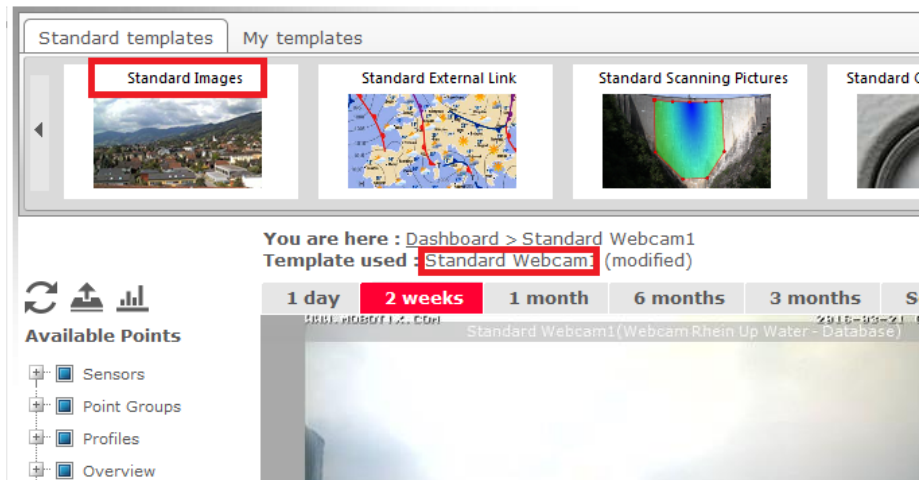


Users who have both webcam images and imported images on a same point can choose in the Graph Template menu which of these images will be used. Mixing both images is not supported.



The available type will be automatically selected.

For customers who have already created graphs with webcam images, the notation of the old graph template will be preserved.

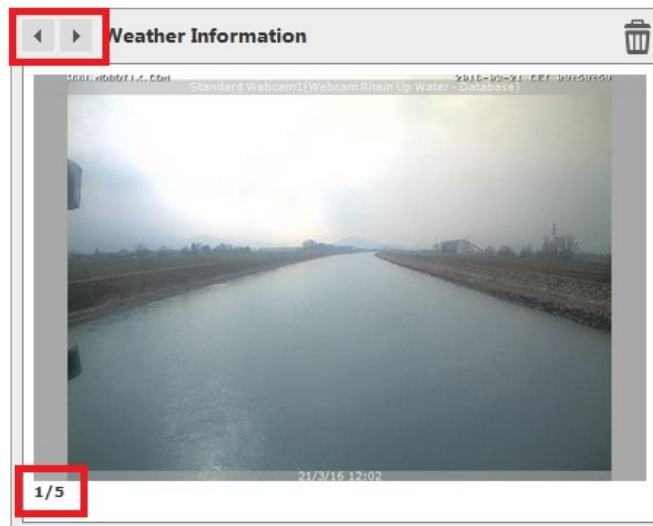


Please note: It is important for customers already using the GeoMoS Monitor Image Import functionality to create a Manual Push of the database to GeoMoS Now! Cloud. After completing this action, it will be possible to see the images that were imported into the GeoMoS Database. This does not apply for customers using GeoMoS Now! On-premise version.

IMPROVED VIEWING OF IMAGES

Several improvements have been implemented for easier and more intuitive viewing of the imported and webcam images.

The paging function is implemented on images that are added to Dashboard.

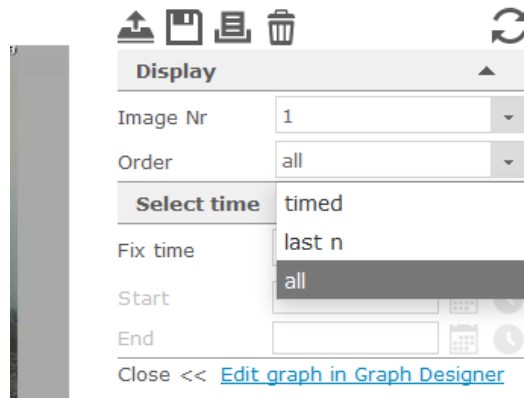


In the upper left corner the navigation arrows have been added. By default the last image in the selected time period is always shown. By navigating further with arrows, the user can view images in the past.

In the bottom left corner of the image the indication of the number of pages is given.

In addition to viewing images in the “timed” and “last n” order, it is now possible to load all images available in the database. The total number of pages will be determined by the selected image number per page (1, 4, 9, 16).

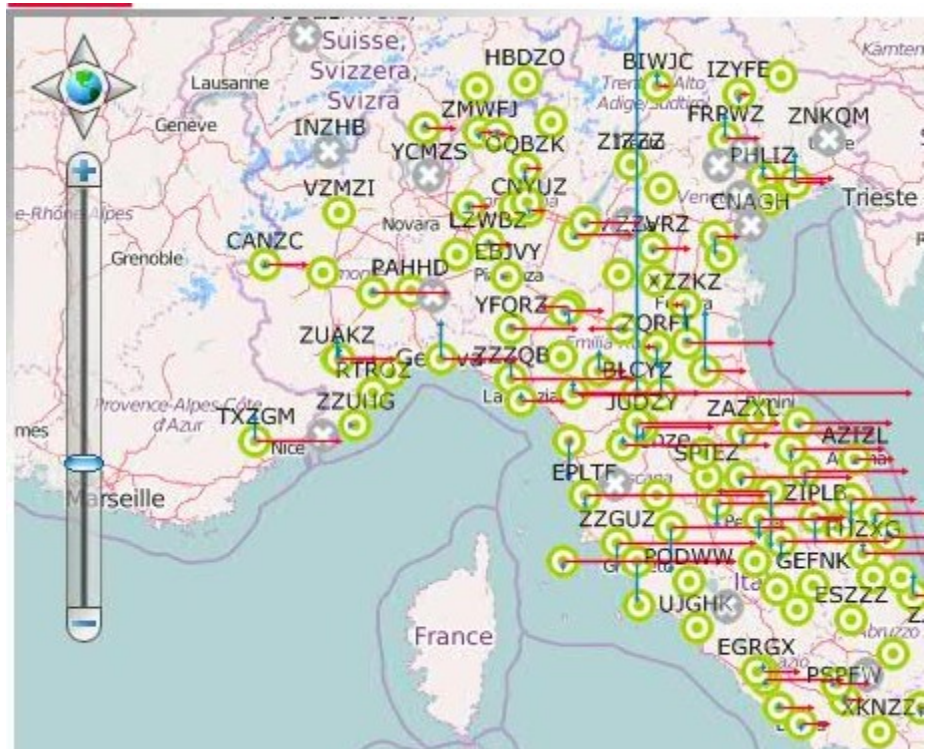
It is important to mention that the order of multiple images per graph (4, 9 and 16) has changed; in past versions the most recent image was in the bottom right position. In the new GeoMoS Now! version the latest image is in the upper left corner of the graph.



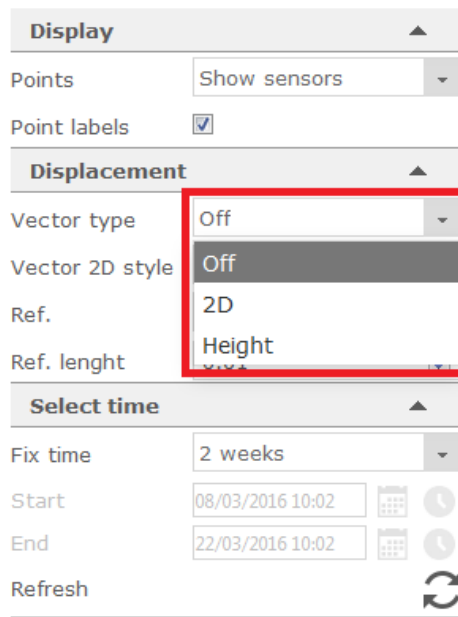
When adding images to the report, it is important to understand that only the current image will be added. Other pages have to be added separately.

DISPLACEMENT VECTORS ON OVERVIEW AND SITE MAPS AND IMAGES

The displacement vector view has been introduced to Overview and Site maps and images.



In the right hand menu it is now possible to select the vector type to be displayed: 2D or Height.



The vectors can be displayed regardless of whether the sensor or status icons are shown.

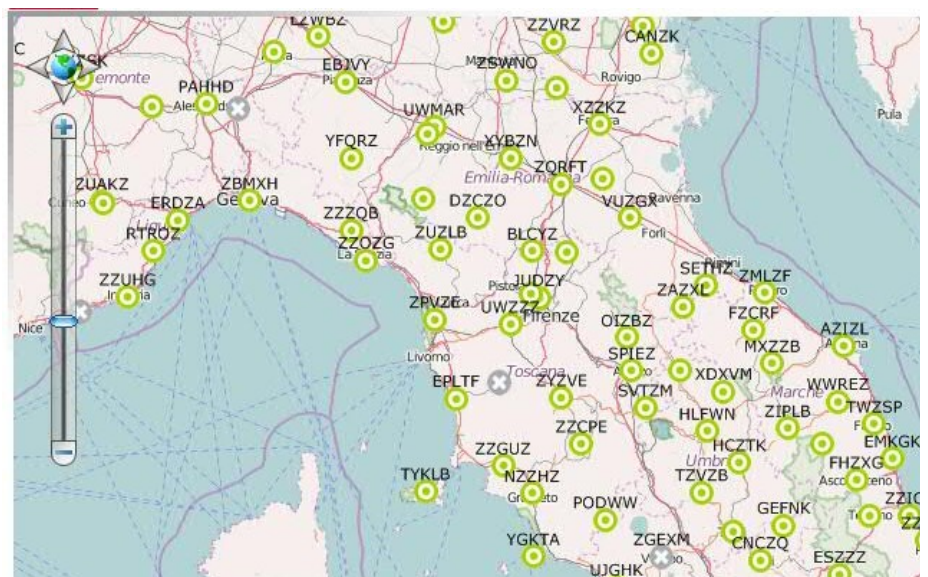
Several further settings are offered for the displacement vectors:

- Vector 2D style: components (easting, northing), resulting, all
- Reference: start time (with respect to the time selection below) and null (with respect to the null measurement)
- Reference length: length of the reference vector

Changing the settings is done on the fly.

POINT LABELS ON OVERVIEW AND SITE MAPS AND IMAGES

The point labels have been added to the maps and images on Overview and Site.



OTHER IMPROVEMENTS

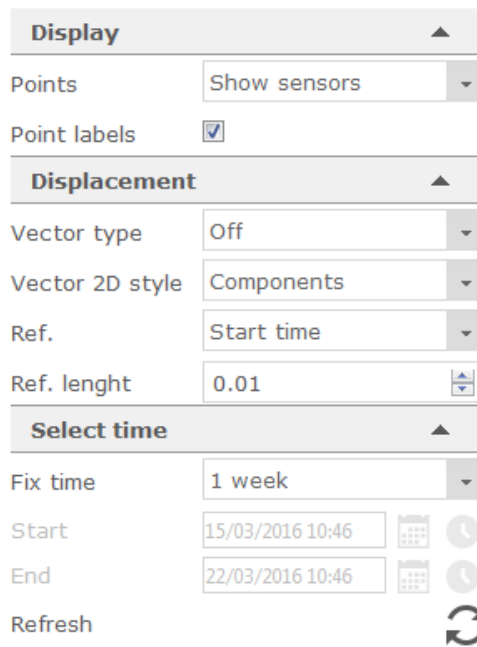
Additional smaller implementations and improvements have been added to GeoMoS Now! 6.5:

- The new observation type Median Deformation has been added to GeoMoS and can be now used in GeoMoS Now!. This observation type is used for scanning results.
- To select the site marked on the overview map/image, please click on the border line of the Site area



This way the problem of overlapping Site definitions can be minimised.

- In the right hand menu of the Site and Overview maps and images the refresh icon has been moved below the time selection area.



This is because it only refers to the time selection. Other settings in the right hand menu are executed on the fly, whereas the time selection has to be confirmed with the update/refresh icon. Also use this icon when you want to refresh the map/image with respect to the time selection.

- Sorting of GeoMoS Monitor projects in the administrator view is

alphabetically ordered as opposed to sorting by the project's creation date, as was the case in previous GeoMoS Now! versions.

What's new in Version 6.4 (build 6.4.0.100) released December 2015

OVERVIEW

Leica GeoMoS Now! continues to add and improve functionalities.

Overview of highlights:

- Significantly improved performance of GeoMoS Now! service.
- Automatic import of the coordinate definition from GeoMoS Monitor.
- The GeoMoS Now! Dashboard is now mobile-device ready. Graph reordering and zooming functionalities have been adapted for touch-screen devices.
- Improved data filtering for outlier detection.
- Overview and site setup improved with automatic zoom to all points in project.

Please note: Due to changes in the Map settings management, it is necessary to update GeoMoS Monitor to at least version 6.2.0.651 in order to take advantage of all the new functionalities in GeoMoS Now!. Since this build, SQL Server Express 2005 is not supported any more. The GeoMoS Monitor installation can be downloaded from myWorld.

GEOMOS NOW! PERFORMANCE

The latest version of GeoMoS Now! has significantly improved performance with up to ten times faster page loading and speed of response. This is particularly noticeable on the Dashboard and Site Graph pages, which can contain numerous graphs with instantly updated content.

AUTOMATIC IMPORT OF COORDINATE DEFINITION

GeoMoS Now! automatically imports the coordinate system of a project assigned in GeoMoS Monitor. The coordinate definition (TRFSET.DAT file) is pushed to the service within the database, which significantly speeds up setup time of GeoMoS Now! projects.

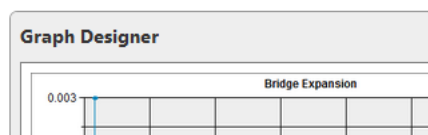
Any change to the coordinate system definition in GeoMoS Monitor will automatically apply to GeoMoS Now! when the next data push occurs.

MOBILE-DEVICE READY

The Dashboard and Graph pages have been adapted for use on touch-screen devices. This particularly applies to the reordering of graphs on Dashboard and zooming in graphs.

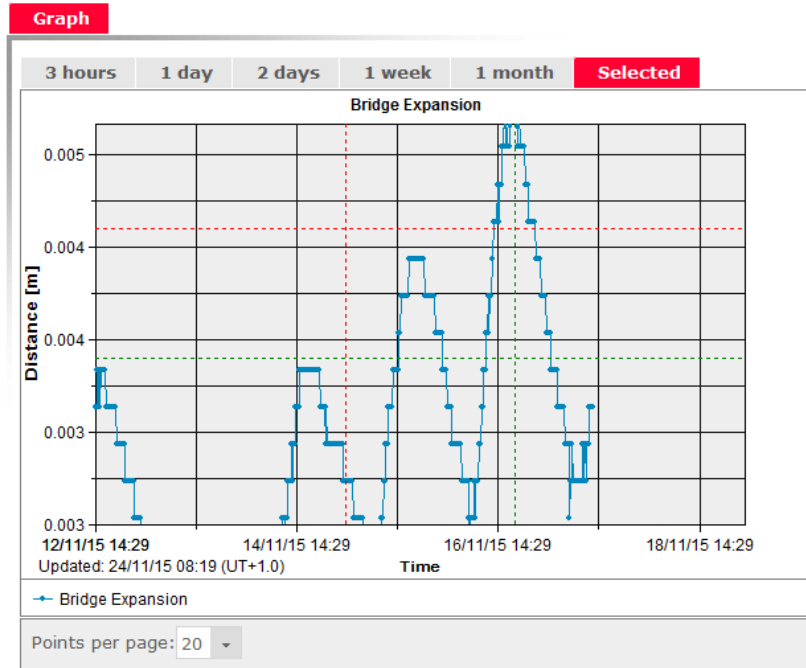
A new button has been added to the Dashboard, which activates the reordering functionality.

Dashboard [Start to order graphs](#)



When pressed, the graphs will go into reordering mode. After two clicks, a graph can be moved to a new location on the Dashboard: first click for the graph selection and second click for the location selection.

The zooming functionality has also been adapted for touch-screen devices and uses the two-click approach to select the zoom area as well.



IMPROVED DATA FILTERING FOR OUTLIER DETECTION

Navigation and outlier selection is now easier and more user-friendly. Removing multiple outliers can be completed faster with the new “Select all in page” button and the new paging implementation.

Updated: 09/12/15 15:15 (UT+1.0) Time

← plus_Diep_225

Select all in page Apply

Outlier	Epoch	Easting [m]
<input type="checkbox"/>	09/12/15 12:15	764436.110
<input type="checkbox"/>	09/12/15 12:16	764436.111
<input type="checkbox"/>	09/12/15 12:16	764436.110
<input type="checkbox"/>	09/12/15 12:16	764436.110
<input type="checkbox"/>	09/12/15 12:16	764436.110
<input type="checkbox"/>	09/12/15 12:16	764436.111
<input type="checkbox"/>	09/12/15 12:16	764436.110
<input type="checkbox"/>	09/12/15 12:17	764436.111
<input type="checkbox"/>	09/12/15 12:17	764436.112
<input type="checkbox"/>	09/12/15 12:17	764436.111

/ 17

1 - 25 of 410

OVERVIEW AND SITE SETUP IMPROVEMENTS

Based on the coordinate system delivered from GeoMoS Monitor and coordinates of the points, the Overview map will automatically zoom to the area of the project, and all project points automatically added. This shortens the time needed for setting up a View and allows easier Site creation.

In case a user does not want to see particular points on overview or site map, those can be excluded using the Point management tool.

What's new in Version 6.2 (build 6.2.0.600) released March 2015

OVERVIEW

Leica GeoMoS Now! is now available as a service hosted on Leica server (cloud). All functionalities of this service are the same for locally hosted (on-premises) and Leica hosted (Cloud) versions.

For more detailed product information, please read the release notes below or visit http://www.leica-geosystems.com/geomos_now.

GEO MoS NOW! CLOUD (LEICA HOSTING)

GeoMoS Now! is a web-based service, where data collected by Leica GeoMoS Monitor can be analysed and visualised. The service is provided by Leica Geosystems, and no local installation or software maintenance is needed from the customer's side. Monitoring data are sent to the service, where they can be accessed any time and anywhere.

To use the GeoMoS Now! Cloud service a subscription order must be placed. The customer then receives a subscription ID, username and password for the administrator. It is recommended to register the service in myWorld prior to the first use. Here, the administrator password can be changed.

Once registered, the customer can log-in and start using the service at:

www.geomosnow.leica-geosystems.com

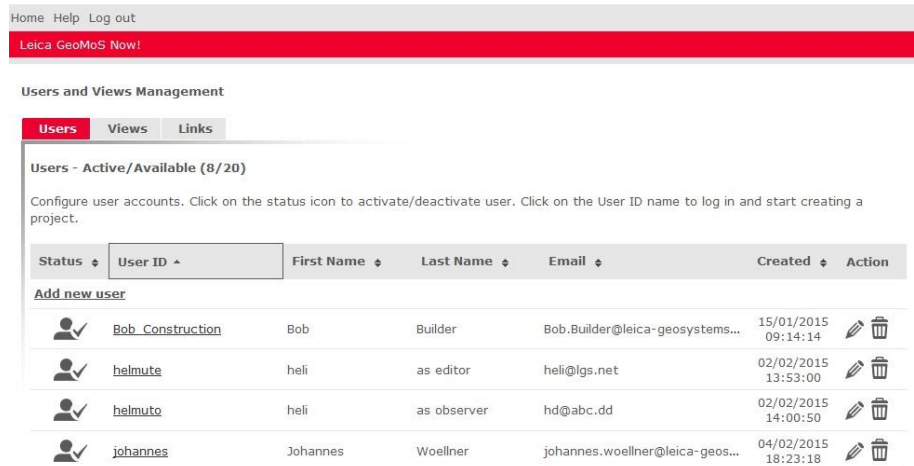
GEO MoS NOW! SUBSCRIPTIONS

GeoMoS Now! Subscriptions				
	Cloud			On-premises
	Standard	Professional	Enterprise	
Users <i>(editor&observer)</i>	2	10	20	2 <i>Optional: + user</i>
Points	100	250	unlimited	100 <i>Optional: + 250 + unlimited</i>
Projects	unlimited	unlimited	unlimited	unlimited
Views	unlimited	unlimited	unlimited	unlimited

Depending on the size of GeoMoS projects (the number of points in a single GeoMoS database) and the number of service users, three subscription packages are offered. Alternatively, if the user wishes to install the service locally or within the company's infrastructure, the GeoMoS Now! On-premises version is available for local installation.

EASY BROWSER-BASED USER AND VIEW MANAGEMENT

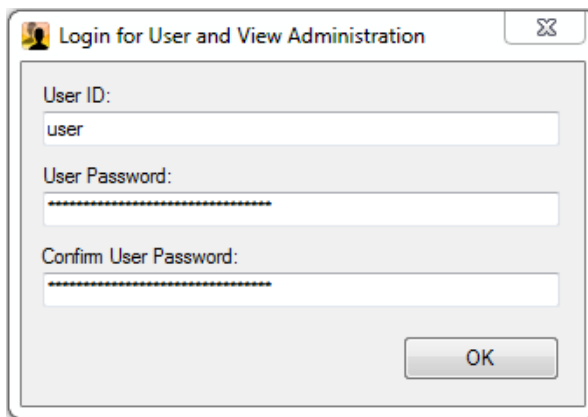
The Users and Views Management tool allows the administrator of the Leica GeoMoS Now! to configure views (projects) and users with different user rights for a specific Leica GeoMoS Monitor project. The Users and Views tool can be accessed when logged in to GeoMoS Now! with administrator credentials.



Once the user is created, the administrator can assign multiple projects to this user, either as an editor or an observer. One project can be assigned to multiple users.

GEOMOS NOW! ON-PREMISES (LOCAL HOSTING)

To use the GeoMoS Now! On-premises (locally hosted) software customer defines administrator credentials upon the software installation. Administrator's password can be changed using the Leica.GeoMoSWeb.Ui.AdministratorLogin.exe program delivered with the software (DVD or myWorld download).

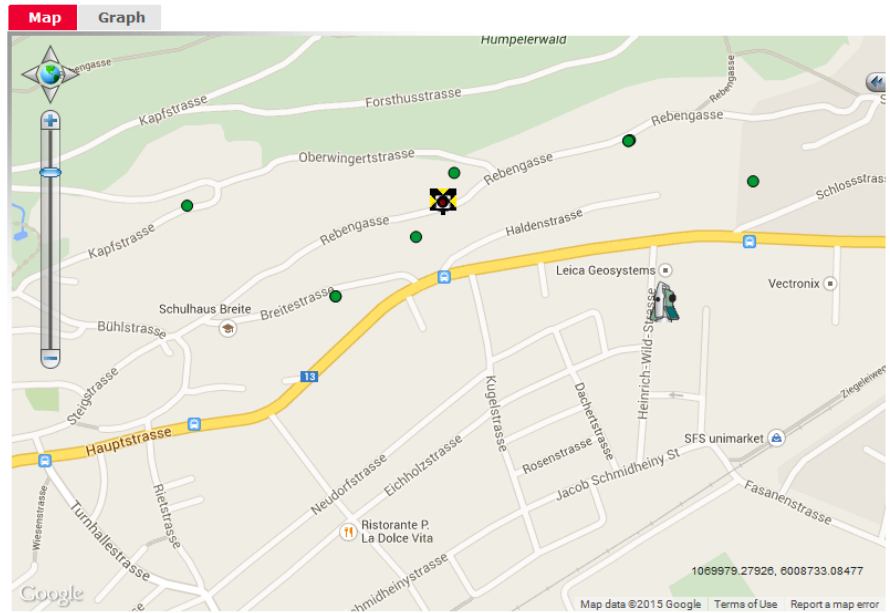


DEFORMATION STATUS ON THE MAP

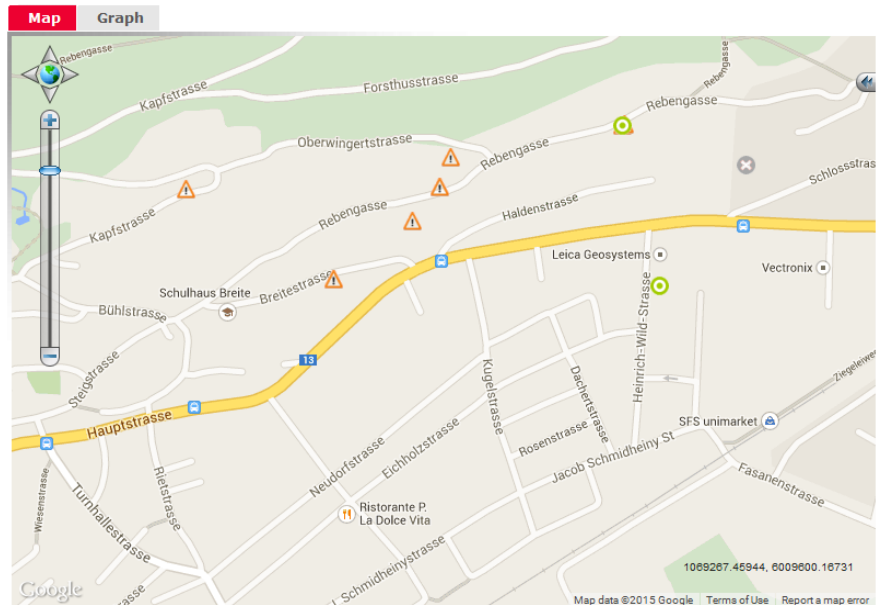
Deformation Status View has been introduced on the Site and Overview maps and images. Deformation messages produced in GeoMoS Monitor are now shown in the web service to provide an "at the glance" view of the deformation status of the monitoring site.

User can switch between the Sensor Icon view, where his selected point icons are shown, or to the Status Icon view, where the status of points will be shown with respect to a selected time frame.




Point icons



Status icons

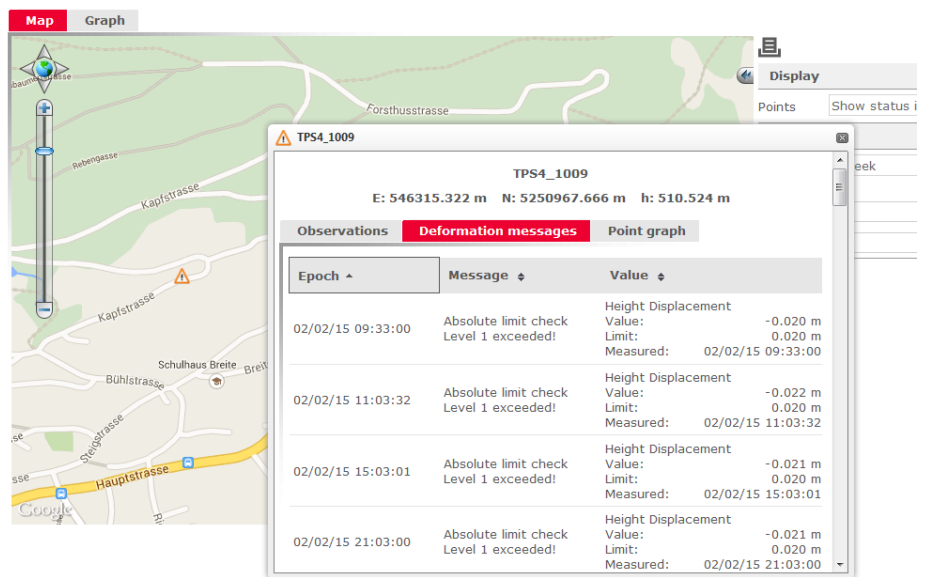


Three types of deformation status icons have been introduced:

1.  Deformation status OK
2.  Limit level has been exceeded
3.  No measurement within selected time period

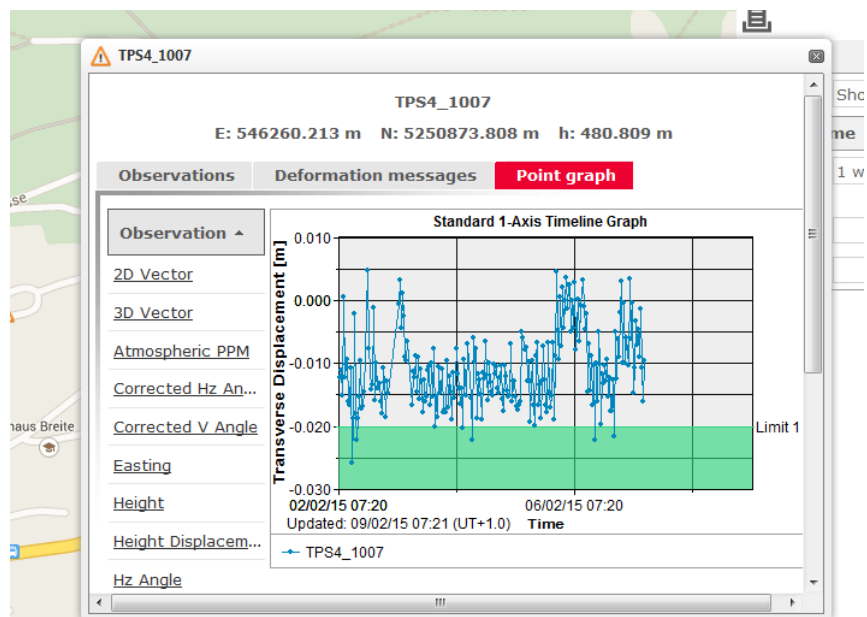
By clicking on a point, a pop-up window opens where the most important information is shown in three tabs:

- Observations,
- Deformation messages, and
- Point graph.



TPS4_1009
E: 546315.322 m N: 5250967.666 m h: 510.524 m

Epoch	Message	Value
02/02/15 09:33:00	Absolute limit check Level 1 exceeded!	Height Displacement Value: -0.020 m Limit: 0.020 m Measured: 02/02/15 09:33:00
02/02/15 11:03:32	Absolute limit check Level 1 exceeded!	Height Displacement Value: -0.022 m Limit: 0.020 m Measured: 02/02/15 11:03:32
02/02/15 15:03:01	Absolute limit check Level 1 exceeded!	Height Displacement Value: -0.021 m Limit: 0.020 m Measured: 02/02/15 15:03:01
02/02/15 21:03:00	Absolute limit check Level 1 exceeded!	Height Displacement Value: -0.021 m Limit: 0.020 m Measured: 02/02/15 21:03:00



TPS4_1007
E: 546260.213 m N: 5250873.808 m h: 480.809 m

Standard 1-Axis Timeline Graph

Transverse Displacement [m]

0.010
0.000
-0.010
-0.020
-0.030

Limit 1

02/02/15 07:20 06/02/15 07:20
Updated: 09/02/15 07:21 (UT+1.0) Time

→ TPS4_1007

NEW EQUIPMENT LIST

The Structural Monitoring Equipment List is updated and can be downloaded from the Leica Geosystems homepage.

www.leica-geosystems.com/geomos → select the Download tab

**VERSION COMPATIBILITY WITH
GEOMOS MONITOR**

Leica GeoMoS Now! can be used only with Leica GeoMoS Monitor v6.2 and higher.



CLM VERSION

GeoMoS software uses CLM build 1.4.1002. This version is part of the installation and update process of the software. This information is only relevant for GeoMoS Now! On-premises version.

What's new in Version 6.1 (build 6.1.0.308) released June 2014

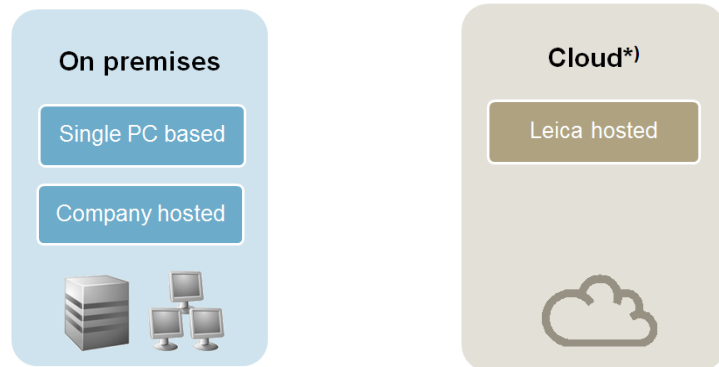
OVERVIEW

Leica GeoMoS Now! is a web-based application which provides access to monitoring data anywhere, anytime and with any web based device. Monitoring data is presented visually with easy to interpret maps, graphs, images, tables and automatic reports and deformation scans, which quickly convey knowledge and understanding of a monitoring project to customers.

For more detailed product information, please visit:
http://www.leica-geosystems.com/geomos_now

SYSTEM

Leica GeoMoS Now! is available for (cloud)*) and Leica hosting, as well as for local hosting (on premises), and gives you full monitoring data control and security.



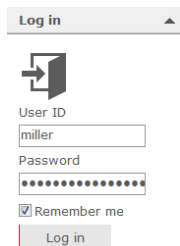
PC based: Installed locally on a PC.
 Company hosted: Shared cloud-like internal service of a company.

Global accessibility and capacity on demand. Service standardization and maintenance by experts.

USER INTERFACE

The software comes with a web-based user interface and is identical whether the product is being used in the cloud, as a PC-based installation or on your company network.

LOGIN



Log in to your web page with Leica GeoMoS Now! to manage, analyze and share monitoring data captured by Leica GeoMoS Monitor.



*) Cloud version slated for release in the near future.

USERS

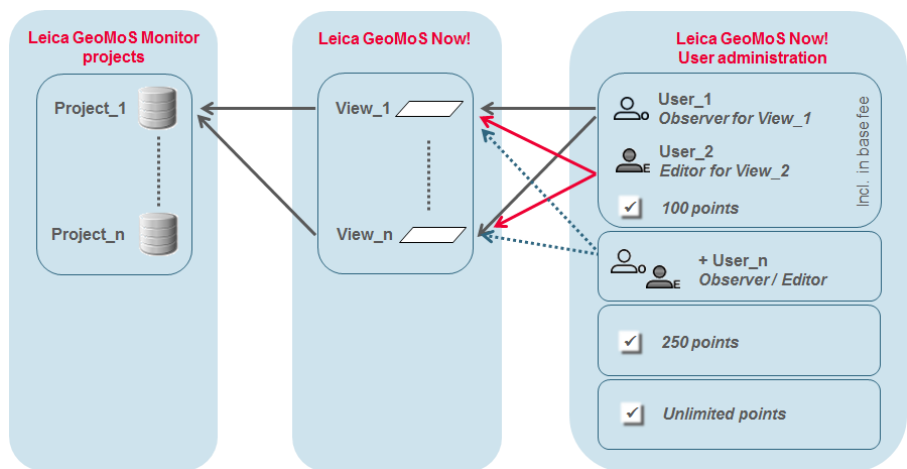
User management provides full control over user access rights and authorization levels.

There are three user group access levels: administrator, editor and observer.

User level	Description
------------	-------------

Administrator	The “administrator” is solely responsible for software installation, license activation and user and view management.
Editor 	The “editor” of the project can follow the available wizards step-by-step to set up units or time settings or to upload images or geo-reference maps and create graphs for customers needs and project requirements. The “editor” configures the web page content of the views.
Observer 	An “observer” has basic-level access to the monitoring data. An “observer” can navigate through graphs (on the dashboard, in the overview and on sites) and receive reports.

PROJECTS, VIEWS AND USERS



A GeoMoS Now! view is the web page for a specific GeoMoS Monitor project, including the overview, sites, dashboard, reports and graphs.

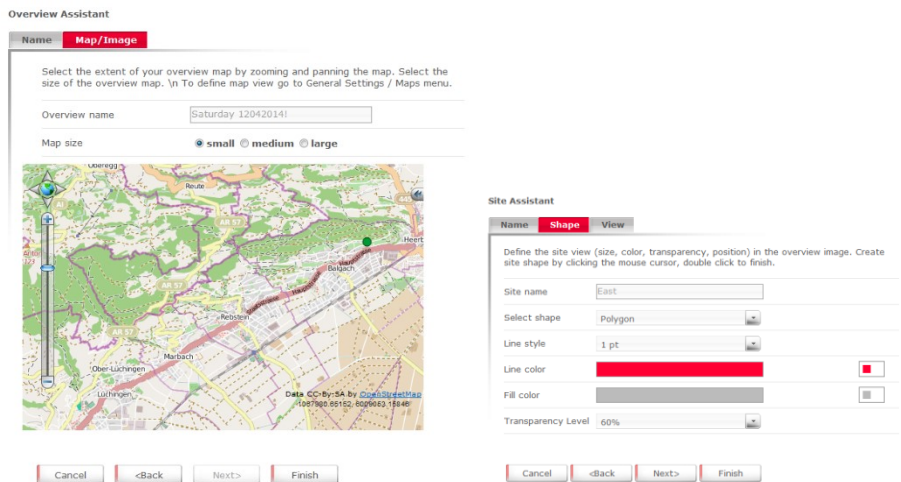
Monitoring data views can be adapted to the different needs of various users, such as engineers, experts, and managers, or the project requirements.

GeoMoS Now! has additional options for displaying more points and using more users.

SIMPLE SETUP

Leica GeoMoS Now! is specially equipped with intuitive configuration tools for the initial project configuration and ongoing maintenance.

Once the product has been set up with its intuitive configuration tools, the monitoring data is instantly available without the need for any knowledge of web programming:

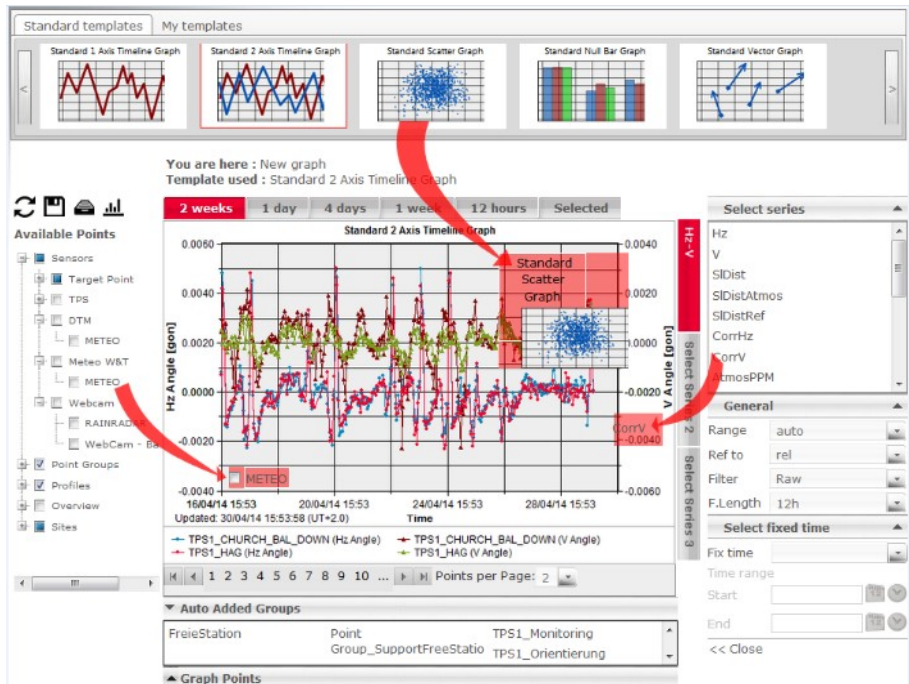


The monitoring data is then presented on web pages which can easily be tailored to the needs of any user and project.

GRAPH DESIGNER

Interactive graphs can easily be created and organized with the Graph Designer.

The Graph Designer is the main page of the configuration tools used to create, edit and save graphs.




A graph is defined by its template (timeline, scatter, vector graph etc.), data (points & series) and additional calculation and visualization settings.

Graphs can easily be designed in the Graph Designer by dragging the required content into the working area.

A user begins by dragging the appropriate graph template from the top menu to the working area.

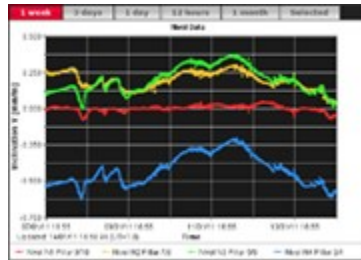
Then the user defines the points to be visualized with the previously selected graph template using the menu on the left-hand side.

The graph is finalized by making various display settings, such as the data series, viewing options (relative or absolute) and filter options, using the menu on the right-hand side. Using the  menu, advanced users can also change more detailed settings, such as colors, pre-defined scale ranges etc.

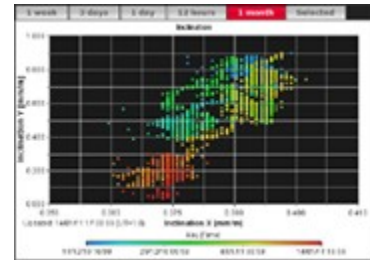
Graphs can be saved in various locations by being added to an overview, any of the sites, the dashboard, a report template or a "My Graphs" folder for later reuse.

REAL-TIME ANALYSIS WITH A VARIETY OF GRAPHS

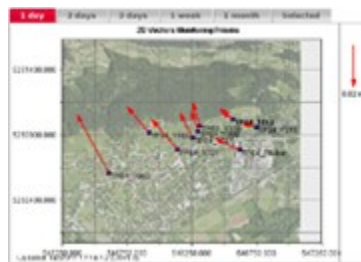
Display monitoring data quickly using interactive graphs like these:



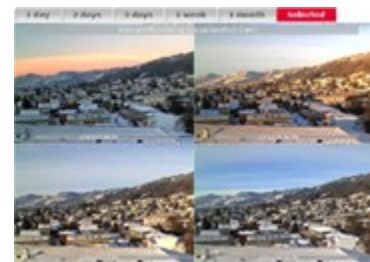
Timeline graphs (with one or two series and limit information)



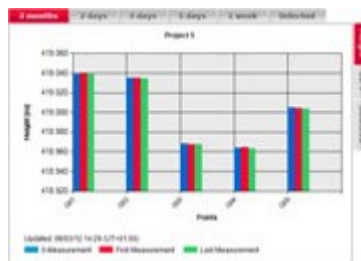
Scatter graphs (monochrome or color-coded)



Vector graphs (2D or height)



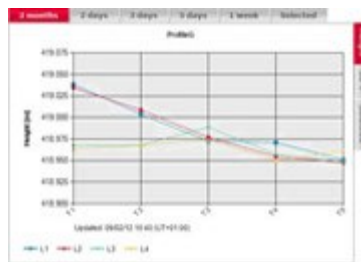
Webcam images and live web images from the Internet



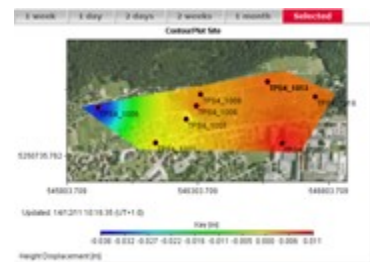
Bar graphs



Circular level graphs



Profile graphs



Contour graphs

These graphs, as well as other special graphs, can be used as scanning graphs or profile graphs.

Analyze using interactive tools. Change between different data series and times frames and apply smoothing and various references and scaling.

VISUALIZING WITH IMAGES AND MAPS

Easily manage and navigate to measurements and results for more detailed information with:

- Internet based maps
- Static overview and site maps



WEB GIS-SUPPORTED

Enhance geodetic and geotechnical monitoring measurements with GIS shape files and raster data. Georeferenced industry data formats are supported, so users can get customized views with additional dataset layers.

GeoMoS Now! map settings define how the map appears on the Overview and Sites pages when data is shown on 2D maps instead of static images. Settings from this page are applied on all Map tabs in Leica GeoMoS Now!

To view sensors and points on 2D maps, you will need Once this information is uploaded to the map settings, all sensors and points from Leica GeoMoS Monitor will be displayed in the correct position on the raster map in Leica GeoMoS Now!.

For more information on georeferenced maps and how to process georeferencing manually, please refer to the GeoMoS Now! online help and detailed map tutorials.

Maps Settings

Configure the map settings and additional layers for your map views.

Maps

To see your data points on WGS84 ellipsoid upload the TRFSET.DAT file exported from GeoMoS or Leica Geo Office.

Currently uploaded file: TRFSET.DAT

Upload TRFSET.DAT file:

View GeoMoS data in WGS84

View Google/OSM maps as a base layer
(uses WGS84 - Pseudo Mercator projection with units in meters)

Openstreet map Transparency: 0%

Google map Transparency: 0% Type: Satellite Api key:

Backgroundcolor:

Map unit: Meter

Additional layers

* When using Google/OSM maps, shape file should be on WGS84 ellipsoid or have a .prj file containing the transformation parameters.
[+Add new shape file layer](#)
[+Add new raster image layer](#)

Name	Type	Visible	File/URL	Comment	Last m
Agriculture	ShapeFile	Yes	Agriculture_CH1903.zip		05/06/:
Streets	ShapeFile	Yes	Streets_Innoparc_CH1903.		05/06/:
Buildings	ShapeFile	Yes	BuildingCH1903.zip		05/06/:
gnss	ShapeFile	Yes	Points_kazakh.zip		06/06/:

Map size small medium large

DASHBOARD OVERVIEW

Assign key information to the dashboard to enable the most important views of the monitoring project to be displayed on a single web page.

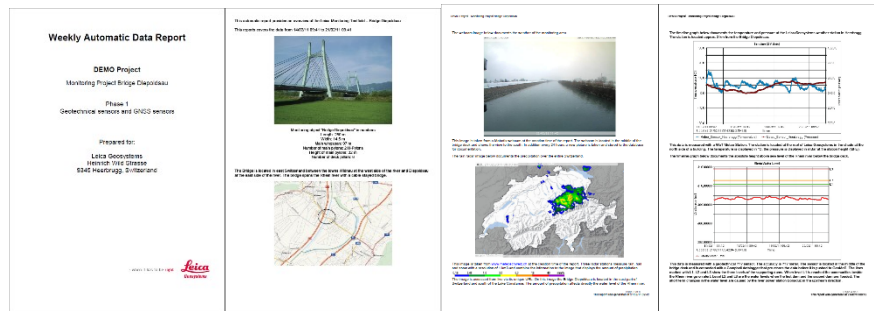
The dashboard consists of several widgets:

- Expert's Site:** Aerial view of a city area.
- Expert's Site:** Aerial view with GNSS station locations (1001-1007) and labels for 'GNSS Moiré', 'TPS 1 Station', and 'Rain Radar'.
- Monitoring Demo System:** Aerial view with a red circular area of interest.
- Expert's Site:** Standard Site Color Vector plot showing displacement vectors.
- Heerbrugg / Balgach:** Standard Site Vector plot showing displacement vectors.
- Heerbrugg / Balgach:** Standard Site RT Vector plot showing displacement vectors.
- Temp Point - Leica Geosystems:** Standard Point 2 Axis Timeline graph showing Temperature (°C) and Pressure (hPa) over time.
- Heerbrugg / Balgach:** Standard Site Color Graph showing height displacement (cm) over time.
- TPS4_1001 - Heerbrugg / Balgach:** TPS Controller Measurement graph showing Controller RT Angle (mm) over time.

The content of the dashboard is refreshed automatically.

AUTOMATIC PROCESSING WITH PDF REPORTS

Summarize essential data for automatic processing and distribution to PDF reports.



Automatic reporting allows the creation of professional monitoring data reports in PDF format with specified content.

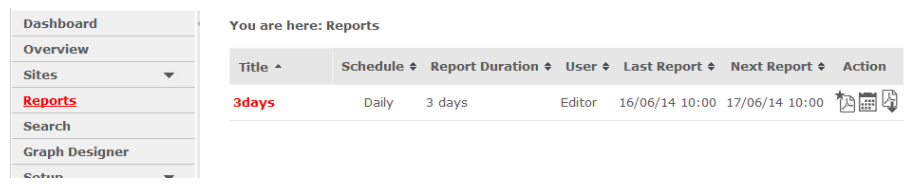
The following report template content can be configured with GeoMoS Now!:

- **Cover page**, with the option to add logos, a project name, project location, project type, images, contact details and anything else required on a cover page
- **Introduction page**, (similar to the cover page) with the option to add more detailed information on the monitoring project
- **Header and Footer**, with the option to add logos, dates etc.
- **Content pages**, with the option to add every **graph type** along with some descriptive text (timeline graphs, scatter graphs, vector graphs, images etc.) showing the current monitoring data measured in GeoMoS Now!. Historical information can also be added to the content.
- **Back page**, with the option to add company information, legal details etc.

For example, users can import existing MS Word report content into a GeoMoS Now! report via HTML.

Multiple reports can be created for different user groups.










Users can receive PDF reports via Email or download them with various time settings using the Reports menu.



AUTOMATIC UPDATING

Data captured by Leica GeoMoS Monitor can be viewed in Leica GeoMoS Now! either manually by selecting the configured hotspots in the uploaded static images or automatically via the new Web GIS-supported 2D maps.

Any new data from sensors and points installed after the initial configuration is subsequently added to the user interface and updated in the graphs, dashboard and reports. Maintenance is reduced to a minimum once the web views for the project have been defined.

Available points	Auto-add	Select shape	Select color/Upload image
Sensors	<input type="checkbox"/>	Circle	#009933 
Point Groups	<input type="checkbox"/>	Circle	#009933 
FreieStation	<input checked="" type="checkbox"/>	Square	#FF0000 
TPSL_CHURCH_BAL_DOWN	<input type="checkbox"/>	Square	#FF0000 
TPSL_HAG	<input type="checkbox"/>	Square	#FF0000 
TPSL_HOUSE_BAL	<input type="checkbox"/>	Square	#FF0000 
TPSL_TEL_POLE	<input type="checkbox"/>	Square	#FF0000 
Point_Group_SupportFreeStation	<input type="checkbox"/>	Circle	#009933 
TPS1_Monitoring	<input type="checkbox"/>	Circle	#009933 

BRAND LABELING

Customize the user interface by uploading your own company logos and links, using redirect URLs and text and changing the design colors to meet all your specific project needs.

Leica GeoMoS Now! can be fully brand labelled to suit any company’s style. As a result, end customers will associate the service entirely with their own provider.

LOCALIZATION

The unit, time and language settings can be configured to suit the customer’s needs:

- International units for all measurements and transformations/map projections
- Date and time settings
- Language files are available in EN, DE, ES, FR and RU, and other languages can easily be translated

ONLINE HELP

For more detailed information on the product and its features, please refer to the GeoMoS Now! online help and the included tutorials for detailed step-by-step instructions.

KNOWN ISSUES

- Working with multiple GeoMoS Now! views (projects) on the same device (PC, mobile phone, tablet) requires you to use separate web browser windows or instances. The tab functionality of certain web browsers and their different versions may have issues handling different methods of access correctly.

Technical Specifications

ONE PRODUCT – TWO PLATFORMS Leica GeoMoS Now! On-premises can be installed locally, on your PC or a PC available in your local network. The user interface for end customers is identical in each case.

WHEN TO USE IT Leica GeoMoS Now! can be used to display GeoMoS Monitor data with various images, maps and graphs. The equal version of Leica GeoMoS Monitor is required for data acquisition.

COMPATIBILITY AND REQUIREMENTS FOR GEOMOS NOW! ON-PREMISES

Operating systems (*)

- Windows 11
- Windows Server 2016
- Windows Server 2019
- Windows Server 2022
- Windows Server 2025

(*) Only 64-bit mode of Windows versions is supported

GeoMoS Now! can only be successfully installed if the user is logged in as “Users” and enters an administrator password when starting the installation procedure.

Database (*)

- Microsoft SQL Server 2016
- Microsoft SQL Server 2017
- Microsoft SQL Server 2019
- Microsoft SQL Server 2022
- Microsoft SQL Server 2025 (*NEW*)

(*) GeoMoS Now! installation includes the Microsoft SQL Server 2019 Express version, which will be installed, unless the SQL Server is already installed on that PC (e.g. if GeoMoS Monitor is installed on the same PC). In case a newer version, a different edition (for bigger or long-running projects) or a central database server is required, the SQL Server needs to be installed separately.

Minimum Hardware Requirements (*)

GeoMoS requires a physical or virtual machine with following minimal specifications:

- 2 CPU Cores with 2.0GHz or higher (4 CPU Cores preferred)
- 4GB RAM (8GB or more preferred)
- 100 GB of available hard disk space

(*) Described configuration supports basic monitoring projects with the database size up to 10GB. Please scale the configuration up with the size of the project.

SUPPORTED WEB BROWSERS

Leica GeoMoS Now! supports the following web browsers:

Recommended web browsers	Minimum version
Mozilla Firefox	78.0 or higher

Chrome	80.0 or higher
Partially supported web browsers	Minimum version
Opera	67 or higher
Internet Explorer	11
Microsoft Edge	15 th Jan 2020 (Chromium) or newer

Note: Different web browsers may slightly alter the appearance of the user interface.

Leica Geosystems AG
Geomatics Division
GNSS Reference Stations and Structural Monitoring Group
www.leica-geosystems.com

Leica Geosystems AG, Heerbrugg, Switzerland, has been certified as being equipped with a quality system which meets the International Standards of Quality Management and Quality Systems (ISO standard 9001) and Environmental Management Systems (ISO standard 14001).

*Total Quality Management-
Our commitment to total customer satisfaction.*

Ask your local Leica agent for more information about our TQM program

