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**MAKING
MINING
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SSR-VIEWER 8.4

NEW FEATURES AND BENEFITS

SSR-Viewer 8.4 is GroundProbe's intuitive update to its SSR-Viewer software platform. The newest release is full of new features that offer a range of exciting benefits to our customers.

SOFTWARE THAT UNIFIES ALL HARDWARE

For the first time, the software release will support all of GroundProbe's Slope Stability Radar technology solutions, allowing all SSR data to be viewed, analysed and reported on through one software platform. It is compatible with Series 2 and Series 3 radars, including: SSR-XT, SSR-MT, SSR-FX, and SSR-SARx, in both mobile and fixed installs.

ATMOSPHERIC CORRECTION IMPROVEMENTS

Our new Dynamic Stable Reference Areas algorithm allows the radar to dynamically remove the pixels that are rapidly changing and inherently unstable or corrupt.

Significantly improving the user experience, the radar dynamically modifies the stable reference area from scan to scan, requiring minimal user input to keep the atmospheric correction under good configuration parameters.

ENHANCED DEFORMATION ALGORITHM

Using a similar technique to SSR-XT, the enhanced deformation algorithm is now available for SSR-FX and SSR-FM, helping better manage ambiguous data. The cleaner and more reliable data ensures the likelihood of missing a real slope movement is as low as reasonably practical.

DRAG AND DROP CUSTOM ANALYSIS

The new custom analysis tab provides you with the ability to customise the way you want to analyse data. This new drag and drop feature allows you to view multiple types of radar data on a single chart to better understand and quickly assess your slope, the conditions or your radar's performance. The size of the vertical axis is now completely configurable, making the plots even more useful for reporting. Diagnostics can now also be viewed on a single chart in a similar manner.

SELECTABLE PANORAMIC IMAGE

Instead of taking a full panoramic photo collage for each new wall setup, you can now select specific shots for the SSR camera to capture, on which the final scan area can be selected. This new feature allows for much faster creation of walls, saving you valuable time in the radar setup process.

ENHANCED SAFETY-CRITICAL MONITORING FEATURES

Based on customer feedback, SSR-Viewer 8.4 introduces a range of improvements to its safety-critical monitoring features, again raising the benchmark of safety in the mining industry with improved functionality that provides greater peace of mind.

IMPROVED HARDWARE RELIABILITY

SSR-Viewer 8.4 includes programmes to trigger self-maintenance routines for the radar hardware, increasing the life span of some of the critical components of the system.

FURTHER FEATURES AND BENEFITS OF SSR-VIEWER 8.4

FEATURES		BENEFIT
Built-in health check	The new SSR Health Monitor feature proactively and periodically detects the radar system's health and raises alerts.	Ensures your SSR is operating as consistently and reliably as expected.
Effective grease redistribution	Once a day, at the time you choose, the SSR will move the dish to each limit in Azimuth and Elevation to redistribute the grease inside the moving parts.	Extends the life span of some of the critical components.
Integrated wall management wizards	New to Series 2 customers, the Wall Starter Wizard and Wall Continuation Wizard have been integrated into SSR-Viewer, no longer existing as separate applications.	Allows for quicker and more robust creation of wall folders and performance of georeferencing tasks.
Integrated sync and upload services	New to Series 2 customers, the functionality of SSR-Link and WebUpload have been integrated into SSR-Server, no longer existing as separate applications.	Allows for sync and upload tasks to be performed through the one interface.
Pause alert notifications	When performing system maintenance, you now have the ability to pause system and diagnostic notifications. The system will continue to perform its normal functionality and raise notifications for displacement alarms.	Greater control over the notifications you receive and avoidance of irrelevant notifications for mine management.
Additional languages	In addition to English and Spanish, the software is now also available in Chinese, Bahasa Indonesia and Portuguese.	Provides improved useability for global markets.
Automatic Server Backup	SSR data can now be backed up automatically from the monitoring computer into another drive.	Allows for the saving and retrieval of long-term deformation history, even when the monitoring computer's hard drive is inaccessible.
Improved installation types and user management	The types of installation are now more intuitive and clear. Notifications and how they are received are now selectable through the user management tab.	Provides more clarity when configuring the software for critical monitoring and an improved user experience.
Time sync	The system will periodically check the synchronisation between the PMP and the SSR and raise an alert if the clocks are out of sync.	Improves traceability of when geotechnical issues occur for more robust logging of events and alarm evaluation.
Transparent layers	With stunning resolution comes a lot of additional detail, which at times may need to be filtered as part of your analysis. When viewing SSR-FX or SSR-SARx data in plan view mode, the software now allows you to make the stable areas of the wall transparent, allowing the underlying aerial image to become more apparent and for the better visualisation of the moving areas.	Provides a simplified, clearer radar image that only displays the data you most want to see.
New colour gradient functionality	The software is more flexible in the way the deformation data is presented, allowing you to only display deformation towards the radar, away from the radar, or in both directions. To simplify your analysis, the deformation noise threshold can now be configured to be transparent and with a brand new default colour palate, large areas of movement can be better highlighted.	Allows for easier analysis of wall movement with the removal of excess detail or atmospheric clutter.

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