What's New

ERDAS IMAGINE & LPS

Version 9.3.2

This Service Pack includes the following enhancements. Refer to the "Release Notes" tab in the Install Manager or in the "Accept" window of the Installation for a complete list of the fixed issues for 9.3.2.

ERDAS IMAGINE®

- New spheroids for the Moon and the planets in our solar system have been added to the Projection Chooser. The IMAGINE reprojection package no longer checks that spheroids must be approximately the size of the Earth.
- A new connection method to ERDAS TITAN has been added. When ERDAS TITAN is installed, the TITAN icon appears in the ERDAS IMAGINE icon panel.
- You can enter the web address of an ERDAS Compressed Wavelet protocol (ECWP) type image to open it directly in an IMAGINE GLT Viewer.
- Support has been added for the COSMO-SkyMed radar sensor satellites, developed by the Italian Space Agency and Telspazio.
- Read support for Enhanced Compressed Raster Graphics (ECRG) TOC format files has been added.
- The Raster Products Format (RPF) Exporter has been optimized and improved to export frames in multiple independent processes, which greatly improves performance on high end machines.
- The RPF Exporter can now automatically calculate a scale resulting in an output RPF where the pixel size closely approximates that of the input image. This option is named Custom Image-Derived Scale.
- Additional scale options have been added to the RPF Exporter, including an Absolute scale of 0.5 meters, and new City Scales of 1:1250, 1:2500, 1:3000, 1:5000, and 1:7000.

IMAGINE Radar Mapping Suite

- SAR Node Tool is the new name for the Generic SAR Node dialog. The SAR Node Tool allows you to edit the parameters of the sensor and satellite orbit of an image acquired by synthetic aperture radar sensors.
- Batch processing of Coherence Change Detection and InSAR projects is now available.
- In the Input step of Coherence Change Detection and InSAR, there are now two tabs named Imagery and DEM. Now you can specify the input Digital Elevation Model image during the Input step, and it is automatically populated in subsequent processing steps.
- Baseline Refinement is a new processing step in InSAR in which you can select from several methods of changing the spatial distance (baseline) between the reference image sensor and the match image sensor. Baseline can be refined in one of three ways:
    - Automatically correct the Perpendicular baseline component using all available GCPs
    - Manually enter values for the Perpendicular and Parallel baseline components
    - Select two GCPs from which the new Perpendicular baseline is calculated automatically
- The Output DEM image created in the InSAR Height step is available both in grayscale and in relief.
- Any values changed in the currently visible processing step of Coherence Change Detection or InSAR can be reset to the default values by clicking the new Defaults icon.
- The SAR Geometric Information dialog reports a new parameter named Altitude of Ambiguity indicating the altitude difference between two consecutive fringes of the same color displayed in the colored interferogram. The SAR Geometric Information dialog was previously named the Collection Information dialog.

LPS Core

- Significantly improved the performance of the following processes for any image that uses a Mixed Sensor geometric model.
    - Ortho resampling using Mixed Sensor in LPS
    - Ortho resampling using calibrated images with Mixed Sensor in Geometric Correction
    - Display of calibrated images with Mixed Sensor in Viewer (with "Orient Image to Map System" on)

- Extended the preference that controls the display of the full file pathname to apply to all pick lists and cell array interfaces where the full file pathname displays.
- Added a preference to force constraints on tie points that have a very narrow ray convergence.

Stereo Point Measurement/Classic Point Measurement

- Added “Force North-up” icon to the viewer. This new feature rotates all images to North-up direction and makes it easier to locate similar areas or common points. If the rotation is significant (worst case is 90 degrees) then you lose stereo view.
- Added a “View” tab on the Properties dialog that allows you to maintain the same scale factor over all images. This way images with different native scales will be displayed in the same map scale.
- Added an option in SPM to choose to display either image coordinates or ground coordinates in the status bar.

ATE

- Added “Threshold to compensate for relative rotation of image pairs to improve ATE results” preference. This preference improves ATE results when image pairs have an uncommon relative image rotation by eliminating holes or blunders.

ImageEqualizer

- Added a "save" capability that stores the image's statistic data with the images and loads it automatically when you reopen the project.

ERDAS MosaicPro

- When exporting seamlines from MosaicPro, those shapefiles now contain additional information stored as attributes. These attributes include the image name and acquisition date and time. This makes it easier to relate a seamline to the image from which it was derived. The output shapefile is consumed by the IMAGINE RPF exporter when making CIB to automatically drive output product values.
- A new feature in MosaicPro extracts the image acquisition date from image metadata (when available) and allows you to sort images based on acquisition date. Now you can sort images for mosaic priority with the most recent on top. You can also enter or edit the date in the cell array and revise the order. Search for "Sort Images" in the online help for complete instructions on this new feature.

PRO600 & PRO600 Fundamentals

- A new tool for collecting object height-annotated symbols
- New PROLPS driver options to automatically disable AccuDraw and AccuSnap
- Support for PRO600 for SOCET SET 5.4.2

Defense Productivity Module

Sensor Models

- Significantly improved the performance of the following processes for any image that uses the CSM geometric model. This includes the MC&G model.
    - Ortho resampling using calibrated images with CSM in Geometric Correction.
    - Display of calibrated images with CSM in Viewer (with “Orient Image to Map System” on).

Image Slicer

- Significantly improved the segment footprint computation when using a terrain file.

Precision Ellipse Generation (PEG) Tool

- Added a tool to support precise computation of the error ellipse for an RPC image/DTED intersection. The resulting ellipses display in the Viewer and graphically show the confidence in the reported position of a given point location. You can export these ellipses to fully attributed 2D or 3D shapefiles.