

## Release Highlights

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### New Functions

#### ⇒ **MANAGEDDATASET**

- This function allows users to work with Geospatial datasets, which may include multiple files. For example, it will enable a user to copy all of the various files associated with ESRI shape data.

#### ⇒ **RAS2LAZ**

- New function that converts and exports a raster DEM layer to a LASZIP (.LAZ) point cloud format file

### Updated Functions

#### ⇒ **EPIPOLARDSM**

- When using the “epitracking” option, the system now can achieve sub-pixel level tracking to improve final DSM quality
- Algorithm has been improved with respect to small disparity ranges and edge trimming

#### ⇒ **DSMMERGE**

- Improved nadir-image selection
- Improvements to the automatic determination of mergeable elevation ranges
- Better memory usage when merging large ADS image strips

#### ⇒ **SGMMERGE**

- Functionality now includes output to LAS or LAZ file, including fully defined map units string

### Geomatica Focus

#### ⇒ **Shaded Relief Map Layer**

- New map layer type added for visualization of digital elevation data using shaded relief.

#### ⇒ **DEM Editing**

- Addition of a new “Live Ortho” preview window, which displays a full-resolution preview of the images orthorectified using the active digital elevation model (DEM), in which you can view changes in finer detail. When you apply changes to the DEM, the ortho images are regenerated automatically, and the preview displays an accurate depiction of how the changes affect images orthorectified using the updated DEM.

#### ⇒ **Smart GeoFill**

- Improved linkage to the DEM Editing tools, which enables users to be more efficient when copying pixels from the previewed ortho-images.

#### ⇒ **Remote Data**

- Web mapping service (WMS) rendering has been optimized



## Sensor Support Updates

The following sensors are newly supported:

- Gokturk-1: Ingest, Ortho, DEM Extraction, Atmospheric Correction

The following sensors have upgraded support:

- Superview-1: Addition of support for atmospheric correction
- Sentinel-1: Addition of Rational Function model from state vector information

## User Feedback and Requests

As a standard part of any PCI software release, we have spent a great deal of time modifying the Geomatica environment and its processes based on direct customer feedback. Over 40 customer-requests have been addressed in the Geomatica 2018 SP1 release.