



# ERDAS Software Maintenance

## Benefits to ERDAS ER Mapper Customers

ERDAS is committed to the development and support of ERDAS ER Mapper. With over 30 years of experience, ERDAS is a leader in the geospatial information market. As a valued customer, you are already benefiting from ERDAS ER Mapper's key features, including "on the fly" processing provided by the algorithm approach, wizards for rapid setup of industry-specific algorithms and excellent mosaic and color balancing of true color imagery.

Since ER Mapper joined ERDAS in 2007, we have released two new versions of ERDAS ER Mapper, following two years without enhancements. In addition to new technology, ERDAS ER Mapper has benefited from the integration of existing features and functionality from ERDAS' broad portfolio of solutions. As we continue to develop ERDAS ER Mapper, we believe ERDAS Software Maintenance (SWM) will truly enhance your overall ERDAS ER Mapper experience.

SWM includes software upgrades, access to technical support and your own support log-in on [www.erdas.com](http://www.erdas.com). ERDAS is known for its industry leading technical support team dedicated to assisting customers with issues related to the operation of our solutions. Technical support can assist with installation, licensing and configuration, as well as helping to resolve technical issues you encounter.

SWM also ensures that you have the latest version of ERDAS ER Mapper. In ERDAS ER Mapper 7.2, we immediately enabled the conversion of node-locked licenses for floating licenses at no cost. Customers under SWM can now install a license manager on a server and then install the software on every computer used by your staff. License borrowing provides a substantial cost savings through the flexible use of purchased seats of software.

### New features in ERDAS ER Mapper 7.2

- 64-bit compression, allowing huge sets of imagery (over 5TB of data) to be mosaicked and compressed
- A new projection engine with over 3200 predefined coordinate systems, over 1100 datum shifts, 50+ mathematical projections, local and global vertical datums and industry-standard EPSG support for seamless data sharing (including better GeoTIFF and JPEG 2000 projection system handling)
- New file formats are also directly readable for data sharing, including MrSID, IMAGINE IMG, RPF (CIB and CADRG)
- Integration of the Clip Region wizard enables you to rapidly define output regions for large mosaics to eliminate uneven edges

In addition, ERDAS ER Mapper 7.2 includes joint licensing with ERDAS IMAGINE Professional 9.3, providing both products when either is purchased or under software maintenance. Both products are bundled in the same media with the same license, providing users a much broader range of functionality. This change in licensing allows the ERDAS ER Mapper community to use both solutions simultaneously, easily integrating geospatial information into any organization's business processes.

Many of you will want to remain in the ER Mapper domain for the foreseeable future—and we will continue to support you. However, even if you only dip into IMAGINE Professional occasionally to prepare data for ERDAS ER Mapper, IMAGINE Professional will enhance your overall workflow. Some of the added benefits of IMAGINE Professional are outlined below (for more details on each, please see the following page):

- Raster Data Exchange
- Vector handling
- Orthorectification
- Spatial Modeling
- Map Composer
- Hyperspectral and other Advanced Classification Techniques
- Vertical Datums
- Coordinate Calculator
- Batch Processing
- Data Viewing

## Reasons for ERDAS ER Mapper users to also use IMAGINE Professional

1. **Raster Data Exchange:** IMAGINE Professional provides access to more raster formats than ERDAS ER Mapper. Both importers / exporters and direct reads are supported, enabling data to be quickly converted into a format that can be used within ERDAS ER Mapper. This includes support for centralized cataloging services to manage access to your Oracle Spatial data, OGC Services and more.
2. **Vector Handling:** ERDAS ER Mapper customers can utilize IMAGINE Professional's extensive vector handling capabilities to edit industry standards such as shapefiles, arc coverages and simple personal Geodatabases. In addition, users can display other formats, such as DGN, Enterprise Geodatabase, and VPF; symbolize the data based on attributes; use it to constrain processing and print map compositions. The ERV capabilities within ERDAS ER Mapper are somewhat primitive, operating on a format that is not an industry standard. The capabilities are similar to the Annotation provided by ERDAS IMAGINE. IMAGINE Professional's editing tools go far beyond those available with ERV.
3. **Orthorectification:** ERDAS ER Mapper's orthorectification capabilities are very limited in the sensor types supported (basically just frame camera) and do not have a pedigree background in photogrammetrical science. IMAGINE Professional provides single-frame orthorectification capabilities for all of the modern satellite systems, as well as airborne digital scanners, based on the photogrammetry principles employed in LPS. IMAGINE Professional also includes tools (Metric Accuracy Assessment tool) for checking the accuracy of 3D orthorectification models.
4. **Spatial Modeling:** ERDAS ER Mapper includes various formula and operators within the algorithm editor to perform a variety of image processing functions. IMAGINE Professional provides additional raster spatial analysis functions that can also be applied through Spatial Modeler language and the graphical Model Maker. Apply site selection criteria (including proximity searches, perform topographic analysis using Slope, Aspect and Intervisibility, derive vector attributes using Zonal operators, perform Summary and Clump analysis), all using an intuitive graphical flow-charting tool which enables easy branching of processes.
5. **Map Composer:** ERDAS ER Mapper provides some simple map layout capabilities. These are not as advanced as the options available through IMAGINE Professional, especially the ability to auto-populate national mapping agency tiling and map layout schemas through the Map Series database and the use of dynamic templates.
6. **Hyperspectral and other Advanced Classification Techniques:** With IMAGINE Professional, you can import spectral libraries and compare the spectra with imagery such as ASTER, Hyperion, and so on, to identify the materials which match the samples taken from an image. You can also classify high-resolution imagery using image segmentation routines, label the classes in unsupervised classification using the Grouping tool, and identify materials which constitute less than a whole pixel using subpixel classification routines.
7. **Vertical Datums:** Reprojection of data is more than horizontal shifts of information. If your raster (e.g. DEM) or vector (e.g. 3D Shapefile) data includes a height component, then it is vitally important to be able to adjust the vertical datum from, say, WGS 84 to Mean Sea Level (EGM '96) to preserve accuracy.
8. **Coordinate Calculator:** Have lists of X, Y (and Z) points in one coordinate system and need them in a different one – Coordinate Calculator provides the answer.
9. **Batch Processing:** Need to repeat the same operation on a hundred images? IMAGINE Professionals Batch Wizard let's you automate the usage of just about any process in the software. The job can be applied to multiple input images, such as converting a database of a thousand MrSID files to ECW format. No programming or scripting is required.
10. **Data Viewing:** The ERDAS ER Mapper display is excellent for a number of reasons, including the ease of manipulating the image display using the Algorithm Editor. However *some* customers might appreciate some of the capabilities proffered by the GLT included in IMAGINE Professional. The GLT enables easy creation and geospatial linking of multiple views, dynamic range adjustment, auto-roaming, table of contents, rotate to sensor look direction, multi-layer blend/swipe/flicker, raster editing tools and more.