

Key Features Added from MrSID GeoEncoder 1.3 to GeoExpress 8.5

GeoExpress® software has evolved from a robust but simple compression engine to a set of powerful image processing tools harnessed together to improve the workflow of any organization with a need to create or manipulate high volumes of multispectral aerial photography or satellite imagery. Here are the key new features added over the years:

MrSID® GeoEncoder 1.3

January 2000 - Codename *Gecko*

- Individual settings for batch processing
- Option to select background color
- Option to ignore input image background
- Option to rename output file before encoding
- GeoTIFF support
- Tiled TIFF support
- Inclusion of metadata from input imagery
- Improved image-size reporting
- Improved error messages

MrSID GeoEncoder 1.4

July 2000 - Codename *Gecko*

- Support for three-band IMAGINE files
- Support for 16-bit GeoTIFF
- Customizable metadata tags
- Enhancement for improving rotated images
- Corner cropping of USGS DOQ images
- Password protection of MrSID® files

MrSID GeoEncoder 1.5

December 2001 - Codename *Newton*

- Support for JPEG with world files
- Mosaicking TIFF and GeoTIFF images
- Workstation preview window
- Support for cropping input images by pixel

- MrSID viewer launching within application
- Image info recording during encode
- Mosaicking images with slightly different x and y resolutions

GeoExpress® 3.0

November 2002 - Codename *Ptolemy*

- MrSID Generation 3 (MG3™) introduced
- Lossless encoding with compression
- Localized image updating
- Mosaicking existing encoded MrSID files
- Optimizing of MG3 images
- Data cartridges
- Unlimited file size support (MG3)
- Temp files eliminated for smaller footprint
- JPEG 2000 input file support

GeoExpress 4.0

November 2003 - Codename *Kepler*

- Image cropping
- Image resampling
- Multiuser Network Edition (uses ECM)
- Multiresolution mosaicking (octaves)
- Interactive preview window
- .NET-based graphical user interface (GUI)
- NITF decode support
- Watermarked test encoding

GeoExpress 4.1

September 2004 - Codename *Des Barres*

- Composite cropping and mosaicking
- Improved large mosaic memory handling

GeoExpress 5.0

December 2004 - Codename *Harrison*

- JPEG 2000 (JP2) encoding
- Unlimited encoding option
- Image reprojection
- Area of interest encoding
- Improved multiresolution mosaicking
- NITF encode support
- GeoExpress Tools Editon

GeoExpress 6.0

December 2005 - Codename *Cosmas*

- Automatic and manual uniform color balancing for images and mosaics
- Floating licenses
- Command-line Oracle integration (w/ Spatial Express® software)
- Support for vector overlays in area of interest encoding
- Support for custom coordinate systems

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GeoExpress software offers the benefits of both MrSID technology and ISO standard JPEG 2000 with no compromise in image quality. In addition to lossless encoding, which preserves images with pixel-for-pixel fidelity in a compressed format easily reusable in downstream applications, GeoExpress provides valuable image manipulation tools such as reprojection, color balancing and area of interest encoding.

GeoExpress 6.1

August 2006 - Codename *Digges*

- GUI Oracle integration (w/Spatial Express)
- GML metadata support (GMLJP2) in JPEG 2000 encoding
- Automatic non-uniform color balancing for mosaics

GeoExpress 7.0

January 2008 - Codename *Visscher*

- Direct output to Express Server[®] catalogs
- Express Server Management Console
- 64-bit support
- Select from previously used coordinate systems
- Automatically generate ESRI AUX files
- Despeckling tools for cleaner images
- Commuter licenses for use off-network

- Add or edit custom metadata tags without reencoding
- Export tools for demosaicking/tiling out imagery
- Support for ECW as input format

GeoExpress 7.0.x

August 2008 - March 2009 - Codename *Visscher*

- GeoExpress Remote Edition for running GeoExpress in a Terminal Server or Citrix Server environment (install GeoExpress on a central server and users can log in remotely to run GeoExpress)
- Better image quality when encoding multispectral JPEG 2000 containing an alpha channel
- Support for CADRG/CIB files
- Command line metadata editor now supports multiple tags and templates

GeoExpress 8

November 2010 - Codename *Revolver*

- MrSID Generation 4 (**MG4**[™]) introduced
- Support for alpha channels
- Support for multispectral and hyperspectral imagery
- Improved mosaicking options

GeoExpress 8.5

October 2011 - Codename *Centurion*

- Support for arbitrary band selection
- Support for per-band compression ratios
- Improved license administration
- Simplified coordinate reference system picker