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We make Imaging Work Every Where.

Manage and share massive geospatial imagery and scanned documents across the hall and around the world. LizardTech Geospatial Software and Document Imaging Software make it easy and cost-effective.

Geospatial Software



GeoExpress is a powerful geospatial software package for managing, distributing and accessing complex geospatial imagery. Everything today's GIS professional needs to work with and produce professional, top quality images in one easy to use solution.



Harnessing the power of MrSID® and JPEG 2000

GeoExpress 6.1 combines the strengths of the industry-standard image compression format, MrSID, with the ISO-standard JPEG 2000, and integrates powerful image editing and manipulation tools to bring you the most advanced geospatial imaging software on the market. So whether your project calls for MrSID or JPEG 2000, GeoExpress 6.1 has got you covered.

But compression is only the beginning. GeoExpress 6.1 delivers robust tools for reprojection, advanced color balancing, area of interest encoding and multiresolution mosaicking. And now, with introduction of GMLJP2 support in GeoExpress 6.1, you can also include geography markup language (GML) metadata to JPEG 2000 imagery that downstream applications can use to integrate and make use of your imagery in geospatial workflows, making it easy to repurpose your imagery for a multitude of projects. Plus, the interoperability of GeoExpress 6.1 with leading GIS applications--ESRI, Leica Geosystems, Autodesk, Intergraph, MapInfo, Bentley and GE/Smallworld and more--enables your customers and partners to view imagery in MrSID format more rapidly using their existing software.



GeoExpress Tools

GeoExpress Tools is a low cost suite of robust tools for use with your existing MrSID or JPEG 2000 imagery. With a powerful set of image manipulation tools right at your fingertips, **GeoExpress Tools** enables you to maximize your existing investment in satellite imagery and aerial photography. Quickly and easily repurpose compressed imagery with mosaicking, reprojecting, updating tiles, cropping or highlighting a selected area of interest and more.

Quickly and Easily Correct Image Tonal Imbalance

Easily correct tonal imbalances automatically or manually by adjusting brightness and contrast using histograms for each color band within an image. In mosaics of tiled images, in addition to applying corrections uniformly, you can make non-uniform corrections within tiles such as for tilt and vignette correction.

Save Time by Reprojecting Existing SID Images

Now you can easily reproject your existing .SID images, without exporting them back out to TIFF and using complex image manipulation software. Using the workflow you already know, you can save significant time by simply reprojecting your MrSID imagery to any of over 2000 EPSG coordinate systems, or define your own using WKT (Well Known Text) strings.

Reduce Storage and Bandwidth by Highlighting Areas of Interest

Make a specific area within a larger image stand out in crisp detail by specifying a lower compression ratio for that particular area. By preserving just the area of interest as high quality with a low compression ratio, you dramatically reduce the size of the overall image file for efficient storage and distribution. Or, obscure a sensitive or classified area within an image by applying low resolution, high compression to just that region.

Optimize MrSID Images for CD or DVD

Optimize your MrSID image by repurposing it for another application or to deliver to customers. Need to crop out a portion of your image, or make it fit on a DVD? Use the **GeoExpress** MG3 optimize function to quickly repurpose your image in a fraction of the time it would take to recompress the entire image.

Save Time by Updating Existing Image Mosaics

Easily add new imagery to an existing mosaic without starting from scratch--no need to create a new mosaic each time the imagery is updated.

Maximize Image Investment by Combining Imagery from Different Sources

Leverage your existing imagery by combining images in different resolutions and coordinate systems into one seamless mosaic. Now you can combine 5 meter satellite images in Latitude/Longitude with 1 foot aerial photos in State Plane into a new MrSID image.



What is GeoExpress?

LizardTech's **GeoExpress** with Mr SID is the de facto standard for managing, accessing and distributing geospatial imagery.

LizardTech's **GeoExpress** with Mr SID is the de facto standard for managing, accessing and distributing geospatial imagery. **GeoExpress** with Mr SID enables you to convert massive geospatial imagery and aerial photography into highly compressed representations optimized for electronic viewing and distribution without sacrificing visual quality or resolution of the original image.

Organizations and government agencies around the world have standardized on **GeoExpress** with Mr SID to cost-efficiently view, distribute and archive geospatial imagery, increase productivity and easily manage imagery of differing resolutions. LizardTech's **GeoExpress** with Mr SID has become the standard image format for leading organizations such as Pixxures, one of the world's largest providers of digital mapping products, and the British National Space Centre enabling over 1.5 million in the UK to explore their country. **GeoExpress** with Mr SID is also used by federal and county governments for critical decisions involving everything from optimizing agriculture yields to national security. Additionally, lossless encoding, wavelet compression and superb visual quality in Mr SID images make **GeoExpress** with Mr SID the ideal geospatial image solution.

To get the most from your imagery, use LizardTech's **GeoExpress** to create seamless mosaics of images with differing resolutions. With typical compression ratios between 2:1 and 50:1, your bandwidth and electronic storage costs are greatly reduced.

Only **GeoExpress** enables you to distribute massive image files on any platform, over any connection speed, with full confidence in the results. Images download quickly while retaining visual fidelity.

Reasons to Buy GeoExpress - image compression and more

GeoExpress allows you to create, manage, access and distribute massive geospatial imagery such as aerial photos and satellite images more quickly and effectively.

Maximize the value of your geospatial imagery investment with **GeoExpress** - advanced image compression and editing software from the makers of MrSID.

GeoExpress gives you more control and more freedom with your geospatial imagery than ever before. Choose between the top industry-standard image compression software formats, and get color balancing, cropping or isolating areas of interest within your image and much more. Everything today's GIS professional needs to work with and produce professional, top quality images in one easy to use solution.

Why GeoExpress?

- Offers the choice of MrSID or JPEG 2000 image compression format
- Provides powerful image editing tools: advanced color balancing, reprojection, cropping, area of interest encoding and more
- Integrates with Oracle Spatial 10gR2 database
- Enables conformance to government encoding requirements
- Includes GMLJP2 metadata in JPEG 2000 imagery



GeoExpress in Depth

GeoExpress with MrSID is the ideal software for GIS data providers as well as government municipalities that rely on aerial image and satellite image data for critical decisions.

Compliance with Government and Industry Standards

GeoExpress takes the guesswork out of compressing imagery that complies with government requirements for the such as the ISO JPEG 2000 standard, the National Geospatial-Intelligence Agency's NPJE/EPJE and the Department of Defense's NITF 2.1 specification and, of course, the industry-standard MrSID. Predefined and user-defined image encoding profiles ensure everyone in your organization delivers the same consistent high quality imagery, every time.

Massive Geospatial Imagery More Manageable and Network Friendly

GeoExpress delivers powerful image compression with ratios between 2:1 (lossless) and 20:1 (visually lossless), or up to 500:1 depending on your workflow needs. With your choice of two efficient image compression formats, MrSID and JPEG 2000, only **GeoExpress** makes it possible for you to distribute enormous image files on any platform, over any connection speed and in a lossless format.

Powerful Image Editing and Manipulation Tools

Make existing imagery more useful with the powerful suite of editing and manipulation tools found in **GeoExpress** and **GeoExpress Tools**. You can perform color balancing within an image or mosaic, crop images, isolate areas of interest, reproject imagery from one spatial coordinate reference system to another, and more.

Compatible with Most Common Geospatial Applicati

GeoExpress is designed for interoperability with the widest range of leading geospatial applications, including native support in applications from ESRI, Leica Geosystems, Autodesk and Intergraph, MapInfo, Bentley, and GE/Smallworld, to name a few, enabling your customers and partners to view MrSID and JPEG 2000 imagery using their existing software.

Integration with Oracle's Spatial 10gR2 Database

With the integration of native support for MrSID into the Oracle Spatial 10gR2 database, analysts across the organization will always be able to retrieve the latest imagery from a common location, eliminating the time spent scouring disparate file servers in search of an image. A single image repository enables IT administrators to plan for cost-effective and failsafe disaster recovery, all while saving up to 95% on storage space and without taking the time to create image pyramids.

Ability to Include GMLJP2 Metadata in JPEG 2000 Imagery

In addition to such widely used methods as GeoTIFF tags and world files for including metadata, **GeoExpress** supports the GMLJP2 standard adopted by the Open Geospatial Consortium (OGC) in 2005, enabling you to integrate standards-based geospatial metadata into your JPEG 2000 imagery. Prior to the adoption of GMLJP2, the lack of a geospatial metadata standard meant that applications and viewers may or may not have been able to read geospatial metadata in a JPEG 2000 file. GMLJP2 helps further the interoperability of JPEG 2000 as a geospatial image format.



Whether your organization uses **GeoExpress** to compress raw imagery to the latest generation of MrSID® (MG3) or JPEG 2000, or to edit and manipulate existing MrSID and JPEG 2000 imagery, **GeoExpress** increases the value of imagery you already have while lowering the total cost of encoding and distributing imagery, enabling you to capitalize on your investment in geospatial imagery like never before.



LizardTech Express Server software enables you to cost-effectively distribute high-resolution imagery and perfect reproductions of scanned documents via the Internet to any device without sacrificing image quality or legibility.



LizardTech Express Server 6 - Image Delivery Software Made for Geospatial Workflows

LizardTech Express Server 6 is a server application for rapidly distributing large datasets of raster imagery. With Express Server, users on any device access imagery faster, even over low-bandwidth connections. But performance is just the beginning. Express Server's interoperability means you're not restricted to particular image formats, data sources or viewing environments. Express Server supports the workflows that make sense for your workforce and your customers.



LizardTech Spatial Express enables the efficient storage of images that are hundreds of gigabytes in size by extending the functionality of Oracle Spatial, an option for Oracle Database 10g Enterprise.



LizardTech Spatial Express for Oracle

Oracle Spatial, an option for Oracle Database 10g Enterprise Edition, includes advanced spatial capabilities to support GIS applications, location-based services, and enterprise spatial information systems. Now, LizardTech's new Spatial Express extends the functionality of Oracle Spatial even further by making it possible to efficiently store images that are hundreds of gigabytes in size from within an Oracle database, solving problems with storage requirements for massive geospatial image libraries facing the public sector, defense, logistics, energy exploration, business geographics, and life sciences domains today.



Optimize your investment in your Oracle Spatial database by storing your raster imagery natively in MrSID and JPEG 2000 formats. With LizardTech's Spatial Express application, you can dramatically reduce the storage space used for your raster imagery by up to 95 percent while retaining visually lossless image quality. In addition, you can now select an Oracle database and table for output directly from within the GeoExpress GUI and decrease your bandwidth and disk space requirements by storing imagery as efficient wavelets rather than raw pixels. Thanks to LizardTech's industry-standard MrSID geospatial image compression format and the ISO standard JPEG 2000 format, you can store, manage, and access images that are hundreds of gigabytes in size more efficiently from within your Oracle database.

Document Imaging Software



Document Express with DjVu document imaging software enables businesses, publishers and creative professionals to rapidly exchange and efficiently archive complex color documents without compromising image quality or text legibility.

Document Express with DjVu

Whether you need to share documents across the hall or around the world, Document Express with DjVu enables efficient distribution for any kind of document while delivering an unprecedented reduction in electronic document storage and bandwidth costs. A sleek, intuitive Graphical User Interface and automated document conversion process increases productivity and reduces labor costs.



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Newsletter

Saturday, February 09, 2008

Express Server Portal Site

LizardTech, a division of Celartem, Inc., and a leading provider of software solutions for managing and distributing digital content, today officially launched a portal site where existing GeoExpress users can upload imagery to Express Server 6. The portal site can be found at <http://portal.lizardtech.com/>.

The key new feature in the recently released version 7 of GeoExpress is its integration with Express Server, specifically the ability of a GeoExpress client to upload imagery directly to Express Server 6. To showcase the benefit and ease of using this feature, LizardTech deployed a public Express Server portal site for GeoExpress users to publish their imagery to on a 30-day trial basis. Upon publishing, users can instantly view their imagery in WMS applications, ArcIMS, and several Web applications, including Javascript, Flash and Ajax. This results in increased productivity by reducing the effort and time it takes to distribute imagery to the decision makers who need it.

"One of the most exciting new features of GeoExpress 7 is being able to encode and publish imagery to Express Server in one simple operation," said Jon Skiffington, LizardTech senior product manager. "With the new Express Server portal site, our current GeoExpress users can see just how quickly they can publish their imagery and make it accessible."

Customers who do not currently have the latest version of GeoExpress and would like to take advantage of the Express Server portal site can contact their sales representative at <http://www.lizardtech.com/purchase/other.php> and request an upgrade. Those who do not own GeoExpress can download a trial version here: <http://www.lizardtech.com/products/geo/pretrial.php>

About LizardTech

LizardTech, a division of Celartem, Inc., was founded in 1992 to build valuable business solutions from technologies created by the world's leading research organizations including Los Alamos National Laboratory (LANL) and AT&T Labs. LizardTech is a leader in applying state-of-the-art technologies to the real-world challenges of managing, distributing, and accessing large complex digital content such as aerial photographs, satellite imagery, and color scanned documents. LizardTech's software is installed on millions of desktops and integrated into a wide variety of platforms and applications. LizardTech has offices in Seattle, London and Tokyo. LizardTech is a division of Celartem, Inc., which is wholly owned by Celartem Technology Inc., (Hercules: 4330). For more information about LizardTech, visit www.lizardtech.com.

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