



DATASHEET

LizardTech® and Esri®

Partnering to Create Workflows that Get Geospatial Imagery Where You Need It, When You Need It.



LizardTech's geospatial products – GeoExpress®, Express Server®, and LiDAR Compressor™ software – are built to work in concert with Esri mapping and image-serving products to minimize the time between the moment you receive your georeferenced source imagery to the moment users import your products into their mapping tools.

LizardTech, Esri and Real-World Workflows

Interoperability is the foundation of LizardTech's software applications—interoperability not only with other LizardTech applications but also with Esri applications and the wider geospatial ecosystem. This means the utility of your imagery is not restricted by particular formats or data sources. With LizardTech and Esri partnering to ensure integrated workflows, your imagery or point cloud dataset just gets where it's needed—and gets there faster.

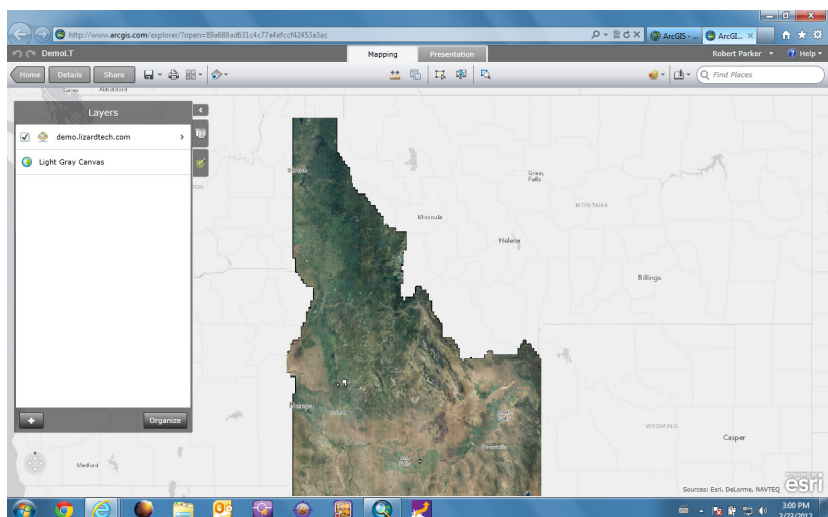
Delivery on Time and on Target

LizardTech's line of geospatial products is a battery of powerful software applications designed to be integrated into your Esri workflow to handle the manipulation and delivery of large georeferenced image datasets and point cloud derivatives. Combining the bit-crunching power of GeoExpress and LiDAR Compressor and the speed and stability of Express Server with your favorite Esri applications enables you to manipulate, compress, view and distribute high-resolution, high-value content quickly, making it easier than ever to get your product into the hands of the people who need it.

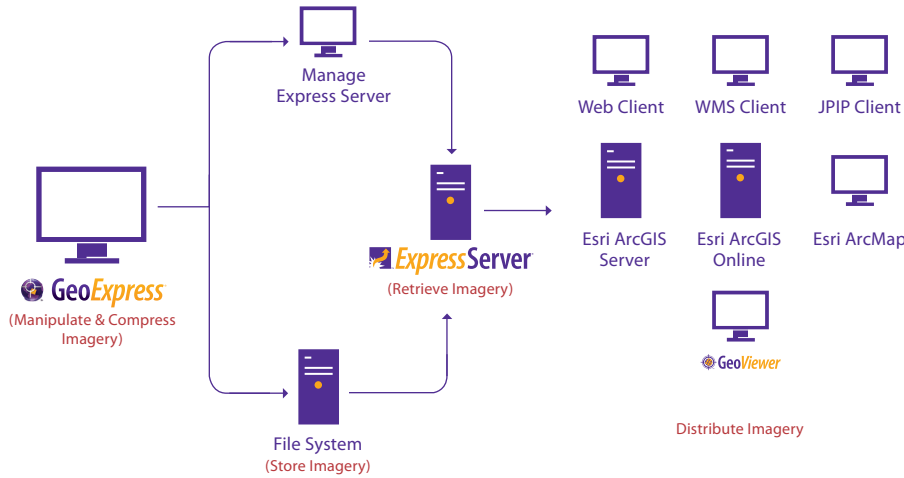
Image Manipulation and Compression

GeoExpress output formats are all supported natively in almost all Esri applications, including ArcGIS®, and virtually all WMS-enabled applications. ArcGIS also natively supports **MG4**, the latest version of MrSID, which supports alpha channels, multispectral

and hyperspectral output and LiDAR data. GeoExpress provides powerful manipulation tools and coordinates seamlessly with Express Server, with ArcGIS and with WMS applications so that you can quickly create and publish high quality image products for your customers and users. You start saving time as soon as you



An Express Server mosaic of Idaho in MrSID format viewed in Esri's ArcGIS Explorer.



GeoExpress and Express Server workflows support viewing in Esri clients.

LiDAR Point Cloud Compression

Both GeoExpress and LiDAR Compressor make it easy to compress LiDAR point clouds. Create losslessly compressed LiDAR files in the MG4 or LAZ formats, then display them quickly in ArcGIS 3D Analyst, ArcGIS Feature Analyst and other viewing applications. You take control and create the derivatives you need whenever you need them, then view them rapidly in the Esri applications you commonly use. Reduce the size of your point cloud files by up to 75% with lossless compression, and then use lossy compression to meet specific derivative requirements.

A Partnership Benefiting Your Users

LizardTech and Esri provide easy-to-use tools to get your high-resolution content into the hands of the decision makers who need it most.

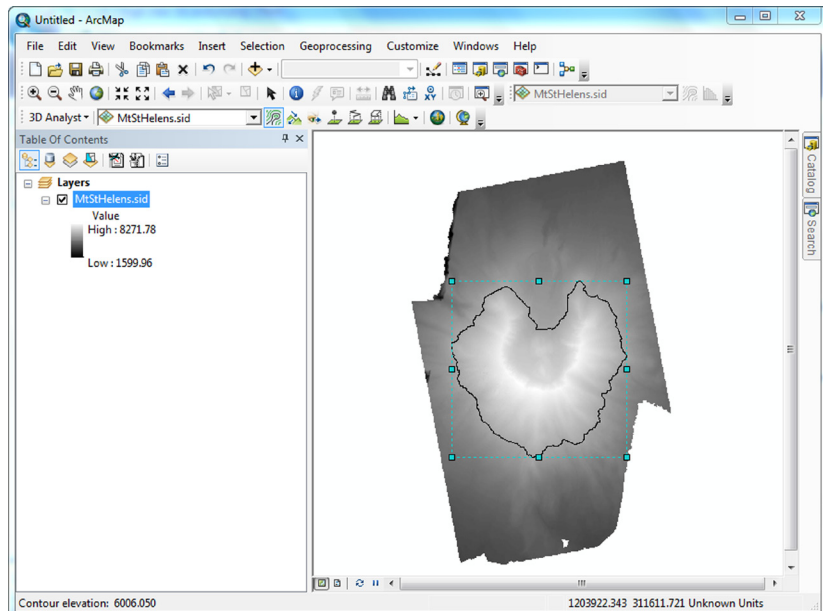
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import your source imagery into GeoExpress. You can select bands, mosaic and crop images, correct tonal imbalances, and reproject to the coordinate reference system you require – all with a few clicks – then output in compressed MrSID or JPEG 2000 format directly to a file system or Express Server. Even existing MrSID and JPEG 2000 imagery can be published to Express Server without being re-encoded.

Image Distribution Over Networks

When you use Esri server software with Express Server, you can deliver imagery at a rate that outperforms other image servers, and performance scales for larger images and additional users. With Express Server, the Esri-LizardTech advantage becomes more pronounced as the job gets tougher. Deployed in conjunction with Esri's ArcGIS Server or ArcGIS Online, Express Server increases the performance of existing image-serving hardware by as much as 25 times. Express Server is simply the fastest and most efficient way to serve raster MrSID imagery. Use Express Server to pull imagery from file system catalogs for instant viewing. With Express Server, your imagery can be viewed simultaneously in Esri programs, WMS and web applications – virtually all commonly used GIS

applications (see illustration above). You can even stream Express Server imagery via the JPIP protocol. Regardless of the storage source or the viewing application, the more simultaneous users view your imagery the more Express Server benefits your users' experience.



A LiDAR point cloud dataset compressed to the MrSID format and viewed in ArcMap.

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