



DATASHEET

LizardTech® Express Server® 7 Image Delivery Software for the Geospatial Age

Now With  **MG4**

No part of business today is untouched by geospatial imagery, and the value of that imagery is highest when users can access it quickly and reliably. LizardTech® Express Server® software rapidly distributes large geospatial images using WMS or streaming JPIP protocols without requiring you to spend time customizing your applications or retraining users. With Express Server, users on any device access imagery faster, even in bandwidth-starved environments. Support for MrSID® and JPEG 2000 formats ensure the highest visual quality regardless of connection speed. Express Server also supports *MG4™* so you can now use it to distribute multispectral data. Express Server is the fastest, most stable, and easiest way to distribute high-resolution raster imagery.

Express Server Benefits

Express Server enables you to serve more users in less time using widely adopted standards and familiar tools – all without adding hardware or buying more bandwidth.

Satisfy More Image Requests Faster

Designed to operate with existing image servers and to leverage the dynamic properties of MrSID and JPEG 2000 image formats, Express Server enables you to increase the speed of delivery for your geospatial image data and metadata – without any additional investment in hardware or bandwidth. As of version 7, Express Server software can be run on 64-bit operating systems, which means you can take advantage of memory-based performance improvements.

Take Advantage of the MG4 Format

Express Server supports MrSID Generation 4 (**MG4**), the latest version of LizardTech's MrSID format, which uses alpha-band transparency for better looking mosaics and enables you to serve out specified bands from multi- and hyperspectral imagery.

Engage a Wider Range of Users

Express Server delivers imagery to any device over any connection. Express Server image repositories can be integrated with geographically distributed data stores via many different applications, which means more users can view your geospatial data. Imagery distributed using Express Server is interoperable not only with applications supporting open standards such as OGC's WMS, but also with web browsers, custom web applications and third-party applications such as Google Earth. You can also use the JPIP protocol to stream massive images over networks in bandwidth-constrained environments. Express Server also speeds up image delivery with ArcGIS Server and ArcGIS Image Server. Publish Express Server catalogs as layers in those server applications or connect an ArcMap client directly to Express Server, allowing you to work with datasets hundreds of gigabytes in size right on your desktop.

Express Server Benefits Continued

Make the World Your Data Library

Web Map Service (WMS) support in Express Server means WMS-enabled clients can integrate your Express Server image repositories with WMS-compliant geospatial data stores anywhere in the world. Using WMS you can publish your images in a variety of coordinate reference systems and let Express Server mosaic and reproject them on the fly, so your users can work with imagery however they need to. Your imagery is accessible to world-wide users while locally you leverage the fastest raster delivery technology available.

Deliver the Highest Visual Quality

The industry standard MrSID and ISO standard JPEG 2000 wavelet formats store multiple resolutions of a single image within the image itself. These image formats enable high compression of images while retaining high resolution and making labor- and storage-intensive image pyramids unnecessary.

Leverage Sample Applications

Express Server's sample web applications are included with the installation, so you can view or show off your imagery using a number of viewing methods – including Javascript, Flash, and Ajax – right out of the box. LizardTech's freely downloadable viewers, GeoViewer and ExpressView™ Browser Plug-in, open all imagery delivered by Express Server software. Customizing the sample applications is an easy way to get started running Express Server.

Deliver a Better User Experience

In panning and zooming, scenes resolve instantly in both MrSID and JPEG 2000 images served by Express Server software. That's because only the pixels the user needs are extracted and delivered as users navigate an image.

Ensure Scalability and Performance

Express Server software includes built-in tools for synchronizing catalog information between Express Servers, so you can easily add another Express Server to your server farm for load balancing or as a hot spare.

Distribute More Complete Data

Support for geography markup language (GML) in Express Server 7 means you can add geospatial metadata to your JPEG 2000 imagery and Express Server will deliver it intact to GIS applications and other viewing and programming applications. More than just geocoordinates, geospatial metadata enables you to create JPEG 2000 imagery that is "spatially aware."

Publish Directly from GeoExpress

Using the Express Server management tools included with versions 7 and later of the GeoExpress® application, you can rapidly export images in MrSID and JPEG 2000 formats to Express Server catalogs without having to re-encode them.

Learn more about Express Server 7 at

www.lizardtech.com/products/exp

Tour Express Server 7 at

demo.lizardtech.com

System Requirements

All Operating Systems

- 2 GB RAM
- Dual processors
- 100 MB of free disk space, plus room for imagery
- Gigabit Ethernet or fiber-optic for remote imagery

Windows

- 3GHz Intel Xeon processor
- One of the following Microsoft Windows operating systems:
 - Server 2003 SP2 (32- or 64-bit)
 - Server 2008 SP2 (32-bit)
 - Server 2008R2 SP1 (64-bit)
- One of the following web servers:
 - IIS 6.0 (on Server 2003)
 - IIS 7.0 (on Server 2008)
 - IIS 7.5 (on Server 2008R2)
 - Apache Web Server 2.0.46 (32-bit)
 - Apache Web Server 2.2.17 (32-bit)

Linux

- 3GHz Intel Xeon processor
- One of the following operating systems:
 - Red Hat Enterprise Server 4.0
 - Red Hat Enterprise Server 5.0
- One of the following web servers:
 - Apache Web Server 2.0.46 (32- or 64-bit)
 - Apache Web Server 2.2.17 (32- or 64-bit)