



DATASHEET

LizardTech® Spatial Express® Database Storage and Retrieval Tools for Massive Geospatial Imagery

LizardTech® Spatial Express® software enables you to store, manage, and access massive image datasets efficiently using your Oracle Spatial database. Whether you want to maximize return on your database investment by storing raster image data hundreds of gigabytes in size, or reduce storage space requirements for that imagery by up to 95 percent while retaining image quality, or view the imagery in your geospatial applications, Spatial Express is the key link between your imagery, your database, and your users.

Spatial Express Benefits

“The combination of LizardTech’s Spatial Express and Oracle Spatial 10g delivers a powerful foundation for customers with spatial data management needs. Through this partnership with Oracle, LizardTech’s customers will be able to leverage the benefits of a highly available, secure, and reliable database that can efficiently store and manage their massive raster imagery datasets.”

**STEVEN HAGAN, VICE PRESIDENT, ORACLE
SERVER TECHNOLOGIES**

Centralize Storage of Massive Imagery

LizardTech’s Spatial Express® extension is a suite of tools that makes it possible to store imagery hundreds of gigabytes in size in your Oracle Spatial database. Raster images previously impossible to store in a database can now be stored easily and efficiently, meaning you can use your database as a central repository for all of your geospatial data.

Reduce Storage Space Requirements by as Much as 95 Percent

Spatial Express software enables imagery to be stored natively as compressed industry-standard MrSID® or ISO-standard JPEG 2000 data in an Oracle Spatial database. Images can be reduced in file size by 95 percent or more while their visual quality is retained. By storing the imagery in compressed format you reduce the time and expense associated with storage media and with backing up and safeguarding enormous stores of redundant imagery and data.

Reduce Load and Memory Usage on Your Database Servers

By leveraging the benefits of MrSID and JPEG 2000, Spatial Express decodes only the pixels users need, decreasing the load on your database server’s processor, memory, and bandwidth. Your imagery will not only require less space, but also be delivered faster while reducing the burden on your servers.

View Your Imagery in All GeoRaster-Enabled Applications

Because Spatial Express software uses Oracle’s GeoRaster methodology, any GeoRaster application—such as those by PCI, Safe Software and Leica—will be able to view your Spatial Express imagery. Just choose your images and go to work!

Use Your Imagery in ESRI Products

LizardTech’s ArcMap Plug-in for Spatial Express enables ESRI ArcMap users to add raster imagery

Spatial Express Benefits Continued

from an Oracle database directly to their maps. A simple button in your ArcMap toolbar enables you to connect to an Oracle Spatial database, select images and import them into your ArcMap application. When distributed by LizardTech's optional Express Server® image serving software, ESRI server maps integrated with Spatial Express are delivered up to 25 times faster than before.

Use with GeoExpress to Compress Imagery Directly to Oracle Spatial

If you are already using LizardTech's GeoExpress® compression and manipulation software, you can

output directly to Oracle Spatial via the Spatial Express extension. Using Spatial Express and GeoExpress* together saves you time by enabling you to compress imagery and upload it to your Oracle Spatial georaster tables in one easy step.

View Imagery in Any WMS Application

With LizardTech's optional Express Server, you can view your Spatial Express imagery in any Web Map Service (WMS) client. WMS support means you can integrate your image repositories with WMS-compliant geospatial data stores anywhere in the world. Your imagery plays globally while

locally you leverage the most efficient raster storage and delivery technology available. Meanwhile, your users can view imagery in applications they're accustomed to.

**GeoExpress 7 and later*

System Requirements

Spatial Express System Requirements

Oracle 10gR2 Enterprise with Oracle Spatial Supported

Operating Systems:

- Windows 2000 SP4, XP SP2, 2003 SP1
- Red Hat Enterprise Linux 3, 4
- SPARC V9 (64 bit) Solaris 8, 9,10

ArcMap Plug-in System Requirements

- ArcMap 8.3, 9.0, or 9.1

Supported Operating Systems:

- Windows 2000 SP4, XP SP2, 2003 SP1