



## ECW FOR ARCGIS® SERVER

### Deliver ECW Imagery from ArcGIS® Server

ECW for ArcGIS® Server provides compatibility with the ECW format, enabling users to serve ECW imagery from ArcGIS Server 10 as Web Coverage Services (WCS) and Web Map Services (WMS). Users worldwide rely on Intergraph's Enhanced Compression Wavelet (ECW) technology to compress bulky imagery files into manageable sizes – all while preserving visual quality of the images. ECW is already supported in traditional desktop GIS, CAD and remote sensing packages such as ArcGIS®, AutoCAD®, ERDAS IMAGINE®, ERDAS ER Mapper, ENVI®, FalconView™, Bentley Microstation®, and PCI Geomatica®.

### ACCELERATE YOUR GEOSPATIAL WORKFLOW

With ECW support, ArcGIS Server users can leverage compression technology capable of quickly decompressing and opening massive files, in many cases faster than uncompressed imagery can be opened. This powerful extension enables ArcGIS Server to deliver images much faster.

### THE ECW IMAGERY FORMAT

ECW compression enables users to save time during imagery processing and transfer, and ultimately reduces the hardware investment required to complete their geospatial workflows. Additionally, ECW includes multi-resolution level of detail within the file, eliminating the need to generate or distribute pyramids or overviews. ECW also supports opacity channels, allowing images to overlay other imagery cleanly without showing compression artifacts around the edges.

### ECW FOR ARCGIS SERVER

ECW provides the following benefits:

- **SAVE TIME** using the fastest imagery compression available. The ECW technique does not require that intermediate tiles be stored to disk and then recalled during the Discrete Wavelet Transformations (DWT). The ECW technique utilizes the CPU and L1 and L2 caches for its linear and unidirectional data flow through the DWT process. The ECW DWT compression and decompression engine leverages the power of multiprocessor systems to achieve up to 95% acceleration on dual CPU machines.
- Enables **EASY IMAGERY TRANSFER** on standard media or the internet. Working with extremely small files, you reduce your required disk space. For example, compressing one terabyte of raw imagery at a 1:25 target compression ratio results in less than 40 gigabytes of imagery. Multi-resolution level of detail is built into the file, eliminating the need to generate or distribute “pyramids” or “overviews.”
- Allows **QUICK VIEWING** of imagery in any client application. ECW is supported in traditional desktop GIS, CAD, and remote sensing packages, thin web clients (ImageX, ECWP, WMS), and mobile devices.
- Operates with an **EXTREMELY LOW LOAD** and can deliver to a very large number of users. Using standard hardware, you can disseminate huge quantities of imagery data to more users than any competitive product can handle.
- Offers the **FASTEST IMAGERY WMS AVAILABLE** by implementing interoperable standards. The WMS service in the ECW format enables you to deliver the most imagery to the highest number of users.

- DELIVERS A RICH USER EXPERIENCE over the internet using streaming imagery protocol. Enhanced Wavelet Compression Protocol (ECWP) is the fastest imagery protocol available, delivering massive volumes of gridded data to thousands of users on standard server hardware (8 or less core server).
- LOWERS ADMINISTRATION COST and EFFORT, as ECW imagery is easy to manage, requiring minimal maintenance. Using the ECW format greatly reduces the quantity and scale of “servers” required, as well as the amount of physical storage space needed for delivery.
- SAVES MONEY by reducing IT costs for software licensing, maintenance, and hardware. In addition, users do not need to have existing knowledge of the geospatial domain.
- IMMEDIATE RETURN ON INVESTMENT (ROI) that can be measured right away in hardware savings and continuous reduced software costs.



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