eyespy™
image server software technology

The modern networked Enterprise requires that different types of users, operating out of varying network connections and having different content personalization requirements, are enabled to instantly access any information contents. An always-larger portion of these contents is images; this has led to make *Dynamic Image Content Diffusion* a reality.

eyespy™ solves the content diffusion issues

The image content of a WEB or WAP site had traditionally to be prepared prior to diffusion, resulting into multiple working copies of each image to be generated, representing all the various resolutions and sizes needed throughout the site pages.

Today, this has changed. With eyespy™, the original, full resolution images are directly published to the site image server, without any prior image processing.

Once an HTML page is loaded by a client Browser, it will automatically request the needed original images to be accessed, prepared and delivered in a given size, format and form.
This happens instantly and without any compromises.

This novel, but natural way of dynamically preparing and delivering the image content to HTML pages is called ***Dynamic Diffusion***.

Thanks to ***Dynamic Diffusion***, any image is now instantly accessible, independently of its size, in full original quality, in the right size and form, by any user, independently of its terminal and network.

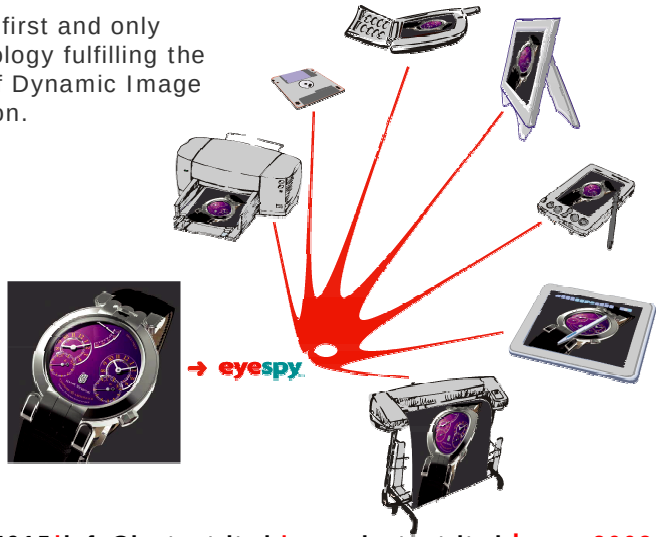
eyespy™ addresses the issues resulting from the imagery markets ineluctable evolution:

- The volume of produced image content is skyrocketing;
- The size of the images doubles every year;
- Huge volumes of paper and microfilm content are in the move to be digitized, both in order to be preserved in digital format, but also in order to be made available in an electronic form;
- The collaborative and networked business environments require that any content should be made available on-line to anyone, including real-time generated contents;
- The technology evolution multiplies the type and number of new diffusion media: WEB, PDA, cell phones, tablet PCs; this also multiplies the problematic of making one content available to any or all of these media.

eyespy™ is the first and only software technology fulfilling the requirements of Dynamic Image Content Diffusion.

Applying Dynamic Image Content Diffusion to a WEB site results into dramatic operational, functional and emotional gains:

- Image *content generation and management* are dramatically simplified, as only the original, high-resolution image is to be published and referenced;
- *Cross-media diffusion* out of one single common original is eventually made possible, without any compromises;
- The users experience a never seen before *quality of service*, even in wireless or modem dial-up access, thanks to the dynamic optimization of the image content to their respective terminal and network environment;
- Having access to the image, artwork or document in its native resolution, the site visitors experience a realistic *visual emotion* and do not suffer any more of a reduced image quality.



Features

Diffusion in the right size and format: the original image is instantly accessed, prepared and delivered in the right size (pixel precise) and image file format (JPEG, PNG, GIF*, BMP*, TIFF*, ...), based on the parameters of a simple URL request. (*: Extensions)

Cross-media diffusion: the original image is dynamically delivered in the optimized size and format to any target Client: WEB, WAP, PDA, SPV, File, ...

Diffusion in the right form: the original image is dynamically delivered in different forms to different pages of your Site or Portal: as a thumbnail of various sizes, as a detail extract, in a freely zoomable viewer. Even liquid page layouts become a child's game.

Ease of integration: a simple URL request is used to request an image, as well as to manage the image content, like the publishing of an original content (e.g. a TIFF file) to eyespy™. This simplest approach guarantees to be able to easily and quickly integrate eyespy™ with any operating environment: Application Server, CMS, Portal Server, DataBase, ...

Functional evolution: the fully modular architecture of eyespy™ allows having the server functionality evolving over time by simply adding an eyespy™ Server Extension module: e.g. specialized on-the-fly processing or new file formats support can be quickly added at any time.

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Technical Figures

Supported Server Operating Environment

Operating Systems	Linux (I-x86) Solaris Windows 2000, XP
WEB Servers	Windows: IIS Linux: Apache Solaris: iPlanet, Apache

Server-side Requirements

Operating System	No requirement, eyespy™ is a simple application software
File System & Storage	No special Device Driver required, eyespy™ works with standard files; RAID and SAN arrays are fully supported
WEB Server	CGI & FCGI support

Client-side Browser Requirements

WEB Browsers	IE 5+, Netscape 4.7+, Opera, Safari
Browser add-on	None: no plug-in nor Applet Only the "naked" Browser

Performance Figures

Image size	eyespy™ performance is fully independent of the image size, even for images in the GBytes size range
Client Bandwidth	eyespy™ is independent of the available network bandwidth, even on data links slower than 56kbps
Minimal Server Configuration Performance	Example: Dell PowerEdge 350 (P-III/1GHz, 256MB RAM, 80GB IDE disk, no caching) i.e. the weakest server in Dell's offering, worth only € 2'000, **delivers 10..50 images/s** sustained, out of originals of any size

Certifications & Partnerships

Caching	Akamai Edge Caching Certified
IBM	WebSphere Portal Server Certification underway: DDP™ portlet compliance to JSR-168 standard