End-to-end solutions
to transform business

SYSCOM ᴵᴺᶜ

IBIG™
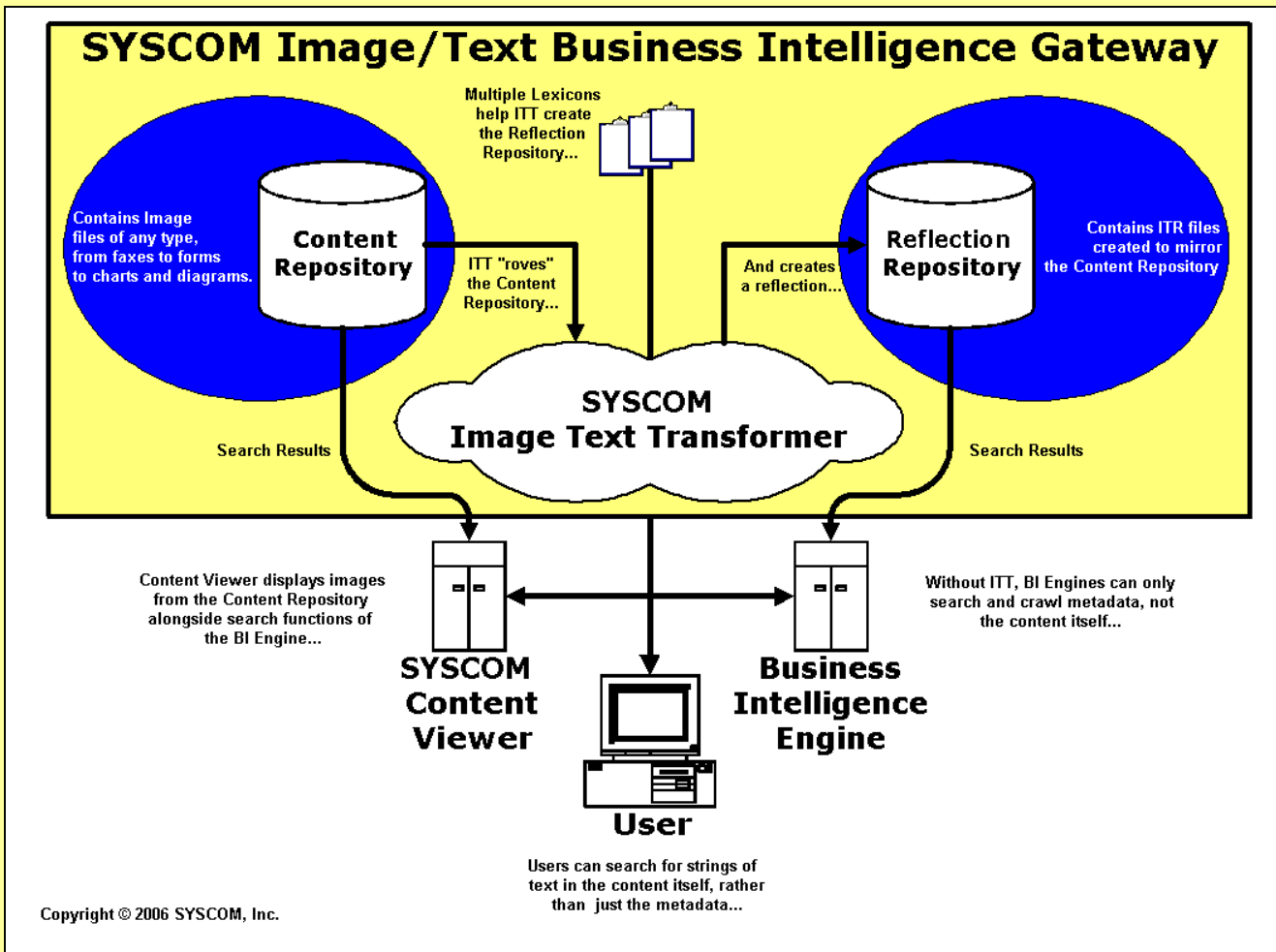
Imagetext Business Intelligence Gateway

The whole archive – *every word* – on the workstation.

Organizations worldwide have invested in technologies to capture, store, and manage digital images of critical documents. Unfortunately most of this information cannot be accessed other than with pre-defined, limited, structured methods. SYSCOM, Inc. has created IBIG to finally give these organizations complete and total access to their information.

IBIG extracts every word out of every image in the archive, and creates a fully searchable Reflection Repository. Using layers of automated character recognition, based on multiple lexicons, accuracy rates are higher than ever.

Business Intelligence solutions powered by IBIG feature:

- **Flexible Configuration Options**

- **Robust Security**

- **Seamless Integration**

- **Unparalleled Accuracy**

- **Unprecedented Access to Information**

SYSCOM Image/Text Business Intelligence Gateway

Multiple Lexicons help ITT create the Reflection Repository...

Contains Image files of any type, from faxes to forms to charts and diagrams.

Content Repository

ITT "roves" the Content Repository...

And creates a reflection...

Reflection Repository

Contains ITR files created to mirror the Content Repository

SYSCOM Image Text Transformer

Search Results

Search Results

Content Viewer displays images from the Content Repository alongside search functions of the BI Engine...

Without ITT, BI Engines can only search and crawl metadata, not the content itself...

SYSCOM Content Viewer

Business Intelligence Engine

User

Users can search for strings of text in the content itself, rather than just the metadata...

The diagram above illustrates the logical structure of an IBIG installation. While it is possible to build an environment that physically mirrors this structure, it is not necessary. Depending on the needs of the organization, SYSCOM can customize IBIG in a number of ways.

The Reflection Repository, for instance, can exist in its own separate space, or within an existing content system. Some configurations even make it possible to remove the Reflection Repository entirely!
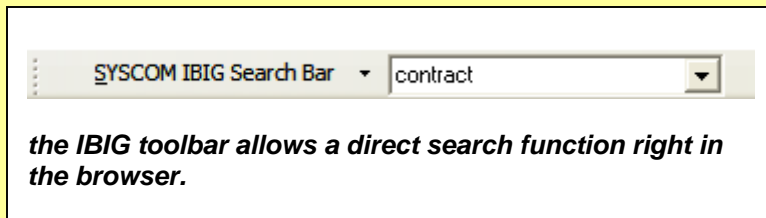
Extraction

The Reflection Repository is built from existing legacy content repositories using SYSCOM's patent-pending Image Text Transformer (ITT). ITT uses SYSCOM's Meta Image Rover (MIR), which extracts and collects the images, and their associated metadata, from an entire content repository or a specific application domain(s).
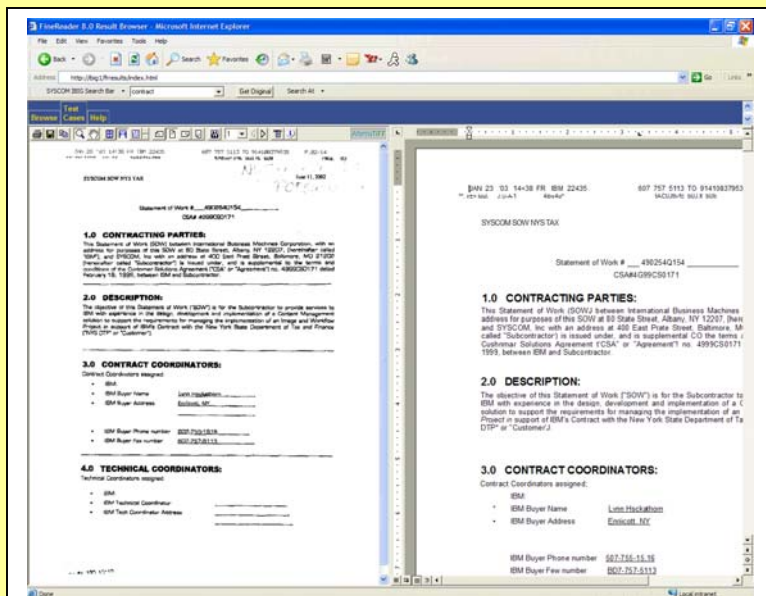
Recognition

ITT subjects the image to automated Character Recognition. IBIG achieves recognition rates above 99% using state-of-the-art OCR combined with supplemental processing of uncertain results. The ITT's supplemental processing employs SYSCOM's Character Resolver that uses multiple lexicons specifically designed for IBIG optimization and other sophisticated linguistic analyses.
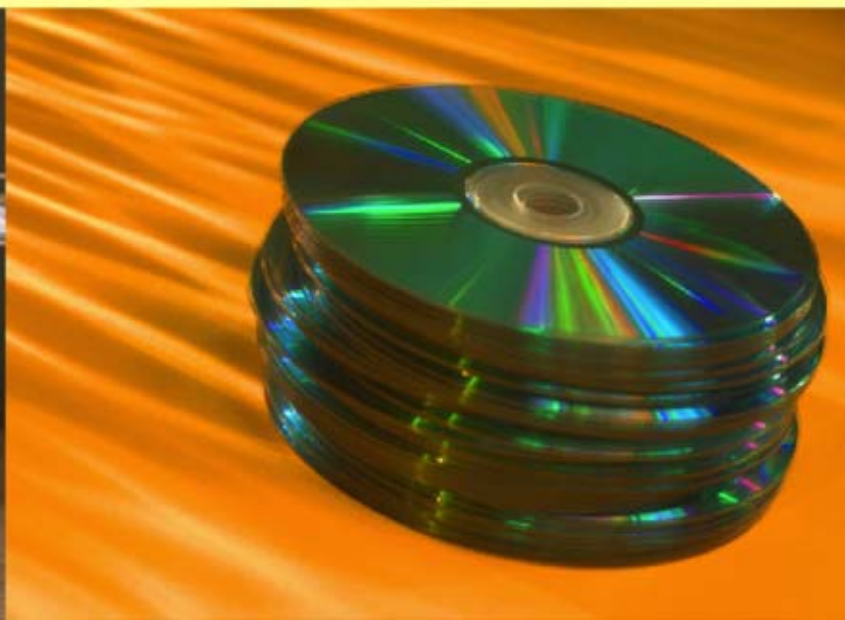
Retrieval & Integration

The search engine user interface is enhanced with the ability to view the raw image documents in lieu of, or in conjunction with the Reflection Document. IBIG features a tool bar that launches a search, and displays results in a highly configurable way. Images can be viewed using the default image viewer, or by a multi-frame UI that presents the image side-by-side with its Reflection document.

the IBIG toolbar allows a direct search function right in the browser.

IBIG can display the image (left) beside the Reflection document (right) directly in the browser.

Moving Beyond Metadata

Organizations that understand the value of Business Intelligence have, until now, relied on the careful and exhaustive extraction of limited metadata to penetrate their image repositories for useful information. IBIG makes it so much simpler. Rather than guessing which questions will need to be answered down the road, IBIG-enabled enterprises can learn from all their data on an as-needed basis.

The whole archive – every word. Why settle for less?

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