



Architecture & Technical Specifications

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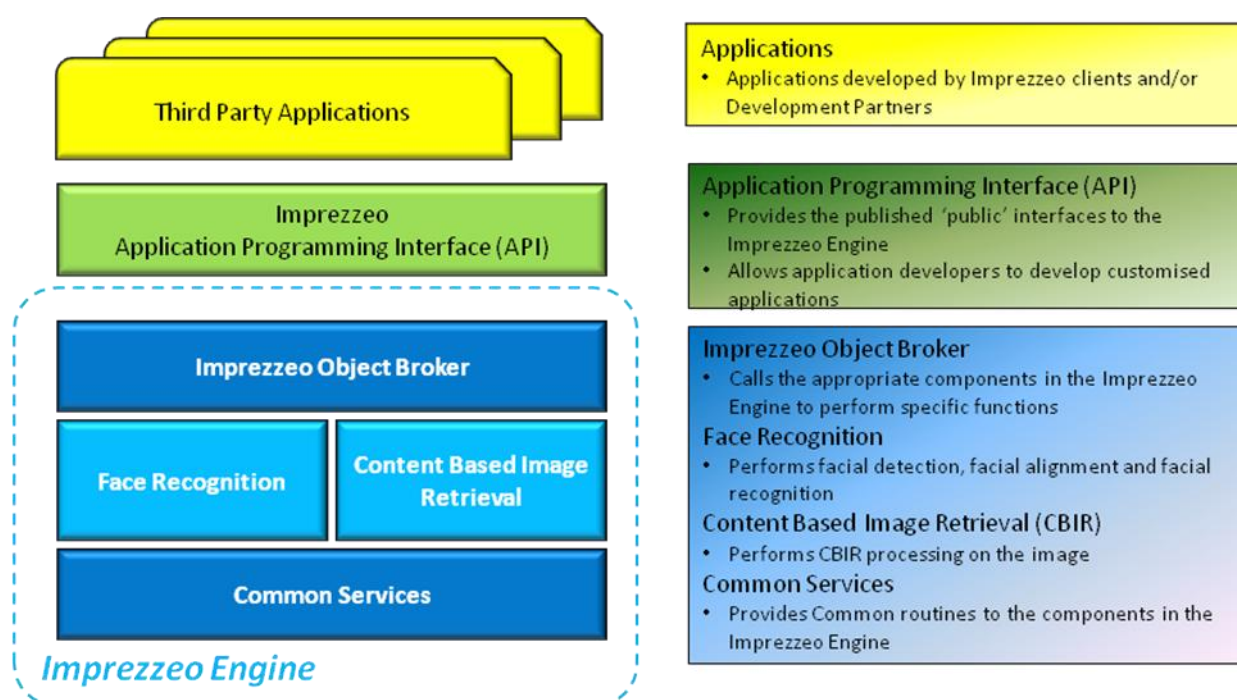
IMPREZZEO ARCHITECTURE

The Imprezzeo system has been developed such that its architecture is scalable from small image collections to very large image collections. For large image collections, Imprezzeo deploys clustering techniques and in-line memory.

For large image collections, Imprezzeo's performance can be optimized and distributed across multiple servers to ensure a flexible and efficient approach to image searching.

Imprezzeo has been developed to integrate into existing applications and is open, both in terms of interfaces and its use of standards. Imprezzeo currently ships with a set of SOAP/XML Web Services, as well as REST (Representational State Transfer) interface for its next release. Both the interfaces provide HTTP methods such as PUT, GET, POST and DELETE to allow for easy implementation.

The Imprezzeo Engine can be tuned to provide varying emphasis of image attributes (e.g. color, texture, people). The ability to tune the engine is unique to Imprezzeo.



HARDWARE REQUIREMENTS

HARDWARE

Minimum configuration:

- Dual Xeon Quad Processor.
- 160GB HDD.
- Minimum of 4GB of RAM (image collection size dependent).

As a rule of thumb, Imprezzeo requires approximately 4GB RAM for every 1 million images.

Each Server with the recommended configuration is capable of handling a collection of 6 million images, with the appropriate memory upgrade. For collections with more than 6 million images, you may require multiple Servers.

NETWORKING

Imprezzeo can be run over a network, dependent on the platform used.

Drives that are locally mapped (Windows) or mounted (UNIX) should also work. SMB and CIFS mounted shared drives can also be managed.

SOFTWARE REQUIREMENTS

SOFTWARE

Prior to installing Imprezzeo, a Java runtime environment needs to be installed.

The Imprezzeo Engine relies upon data stored in a relational database. It does not make heavy usage of advanced database functionality. Any database that is SQL 2003 compliant at the Core level should be suitable. Database access is via JDBC and an appropriate database driver is also required.

The following database environments have been tested and are supported by Imprezzeo:

- **Postgresql** – An open source and free database that runs on Linux.
- **Apache Derby** – An open source, java base embedded and client server database.
- **Microsoft SQL.**

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- **MySQL.**
- **IBM DB2.**

NB Although **Oracle** database has not been tested by Imprezzeo, it should also be compatible.

All testing has been done using UTF-8 as the character set and it is therefore recommended that the database should be set up to support UTF-8 wherever possible.

IMAGES

The following types of image files can be ingested into Imprezzeo:

.jpg, .bmp, .gif, .tif

ABOUT

Imprezzeo is a visual search technology company. Imprezzeo Image Suite provides an enterprise level solution that complements existing search systems, making it easier and faster for users to find the images they need. Our patented technology provides developer tools to enable rapid integration of visual similarity search and facial recognition functionality into existing search and content management systems.

www.imprezzeo.com