About Atomian technology

How does Atomian learn new information?

Atomian uses 'information units', the basic elements that comprise each cognitive universe. Our engineers have developed several applications to extract the information units stored in databases and documents.

These applications are used to model comprehensive ETL (Extract, Transform, Load) systems that provide information to Atomian while removing the need for Atomian to review transaction systems for each question.

How is Atomian different to other software?

There are several approaches to the fundamental challenge of artificial intelligence: cognitive functions that surpass the human mind. These include systems that use statistically probable results, natural language processing tools based on rules, and systems to translate human language to a language comprised of search enquiries. These approaches have limits that Atomian has overcome: they do not include a single data model based on structured (DB) and unstructured (document) sources, they do not understand different ways of conveying the same sentence, and they do not actively provide a deterministic and informed response to a question.

About Integration and use

How is the software integrated in the corporate system?

Our strategy includes a Project Plan that clearly defines the targets, scope, methodology, deliverable items, test plan and end criteria. In this sense, the integration process is not different from any other software installation project, even though the cognitive analysis techniques developed by Atomian are completely different from traditional functional analysis.

The Project Plan is submitted as a draft copy when services are offered, with a predicted input, schedule and budget, before completion and agreement during the first stage of the project, usually in the first week.

The integration process includes a procedure for Management of Change in case of the need to create new versions of the Project Plan.

How and how often is data synchronised between Atomian and the original sources?

The ETL (Extract, Transform, Load) process, which provides information units to Atomian, reads the information in the original sources, processes the data to create cognitive elements, and uploads these details on the cognitive database. The ETL process is monitored with an Atomian installation/set-up tool, providing authority to the system administrator to set the running frequency, which can be hourly, daily, weekly, monthly etc.

Where is the Atomian Server located?
(Server storage methods)

The Atomian server is usually located in the client's company, in order to operate locally behind the firewall. It can also be used as a Cloud server.

How are user profiles monitored and created?

Atomian provides a standard user monitoring system based on the user name and password. It also has two additional monitoring functions: one that separates information domains (e.g. between departments or business areas) and another that conceals user access (e.g. to set degrees of confidentiality for information). The client systems administrator is responsible for the creation and maintenance of user profiles, while our cognitive engineers are also able to help develop the most appropriate solution according to the situation.

What languages are available for Atomian?

Atomian currently understands and communicates in English and Spanish. We expect to install other languages in the near future.

About interpretation and answers

How are Atomian lists created?
How does Atomian select the columns to be displayed?

Atomian can be set up to display the common list type with the ETL process programme loaded on the memory. In general, the most logical columns are displayed according to the primary function of the list; for example, the item, date of sale, client, sum of money etc. would be shown on a sales list. Hyperlinks can also be included in lists that indicate product, client and material records etc.

Can a document be prepared in a company format?

Yes. Atomian is designed to display records for any item type (invoices, delivery notes...) in the precise format required by the client, provided that this corresponds exactly to the formats already in use.

What if a word is written incorrectly?

Atomian has a pre-installed and extensive vocabulary, and a predictive text system available to users. However, words that are very specific, uncommon, or written incorrectly will cause the natural language interpretation module to indicate that the term has not been understood. The interpretation process will then pause until the user asks another question, reformulating or correcting the incorrectly written word. Atomian has "teaching" systems to recognise the meanings of words and include these terms in its vocabulary.

How reliable are the answers on Atomian for different terms?

Atomian uses concepts with different representations (synonymy) and includes them in an extensive synonym database. The software also has several techniques to generate new vocabulary in an ETL (Extract, Transform, Load) process.

About the licenses

What rights and services are included in the license?

The license defines the terms and conditions that apply to the use of the software, including license rights and any associated information, such as the purpose, place of use and assigned hardware. It also provides a non-exclusive right for users to make a copy of the software. As the manufacturer, Atomian guarantees the corrective maintenance of software errors that affect regular company procedures.

Are there limits to the number of users or queries?

No. Atomian products have unlimited use, for an unlimited number of users in the company, for an unlimited period of time.

What is a license extension?

License extensions are included in an Atomian product when new data sources are installed or when a project requires specific output processes (determined calculations, scaled graphs etc.).