

THE COMPLETE SOLUTION FOR LABORATORY AUTOMATION HALIA



Analysis Laboratories are subject to evolutionary pressures that involve the entire laboratory system, in which the Laboratory Information System (LIS) and the Laboratory Automation System (LAS) coexist.

The functional characteristics of the Laboratory Information System and the Automation Systems are different and **each of these systems must have the necessary independence to evolve differently.**

Why HALIA?

HALIA is our instrumental middleware solution to connect these two complementary worlds and complete the computerization of the Laboratory.

Designed to **centrally manage the pre-analytical, analytical and post-analytical instrumentation**, it allows overall control of sample tracking and process management, thus ensuring a complete response to the connectivity demands of analysis laboratories.

HALIA guarantees maximum connectivity in line with the needs of the modern laboratory and it **includes more than 400 instrument controllers.**

Rule engine

HALIA's functionalities are based on a **powerful rule engine that provides a multifunctional response** to the needs of laboratories in terms of the daily workflow management:

- Effective check-in and test management.
- Direct connection to any instrument.
- Intelligent management of storage systems and samples.
- Optimized verification.

Prominent functionalities

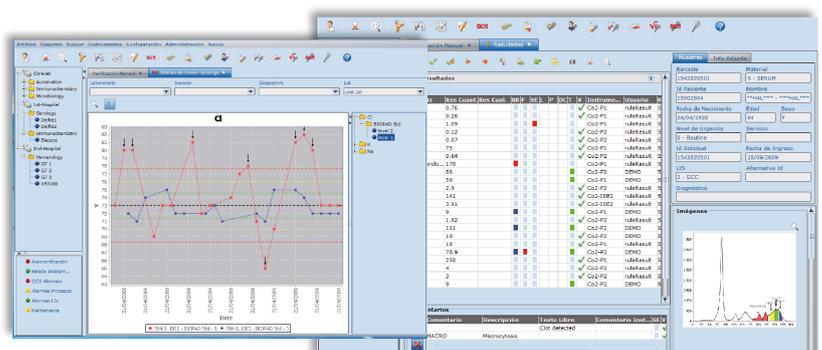
Worklists and Routing: Thanks to its rule engine, HALIA creates effective worklists and routing procedures to perform the requested analyses. It also works with open automation systems capable of bringing the automated operation of the laboratory to a higher level.

Reflex and Rerun: The "Reflex" and "Rerun" operations can be executed automatically by the rule-based engine. Operating in a multi-laboratory mode, HALIA can manage the repetition of analysis in different analyzers located in different laboratories.

Calibration and Maintenance: HALIA provides a powerful traceability tool for the maintenance and calibration of equipment and instruments that allows laboratory personnel to schedule and trace the tasks performed on the equipment and instruments.

Self-check: HALIA can analyze patient results without the intervention of laboratory professionals. The self-check process is based on patient information and results, it conducts real-time comparisons with previous results, other results related to laboratory analyses, quality control results and calibration information.

Storage: Thanks to a set of configurable rules, it manages the storage of laboratory samples in multiple refrigerated containers and storage rooms.



Laboratory Workflow with HALIA

HALIA allows complete control over laboratory workflow and sample processing.

The rule engine is the center of HALIA and operates in the background to ensure optimum performance in all laboratory operations (automated, partially automated and non-automated).

Outline of workflow with HALIA:

