L7|ESP Enterprise Science Platform®

L7|MASTER®

A Digital No Code/Low Code Authoring Tool to Digitalize Science Across Research, Therapeutics, and Diagnostics

CURRENT CHALLENGES

Today, science is still predominantly planned and documented using paper-based or simple computer-assisted approaches (e.g., Excel), with limited to no standard representations. While we have accepted standards for documents (e.g., Word and PDF) and music files (e.g., MP3), this is not the case when it comes to research, development, diagnostics, and manufacturing processes. Instead, the authoring, collaboration, and distribution of scientific processes and procedures (i.e., protocols) via Word and PDF documents remains the norm, directly hindering digital transformation within the life sciences business.

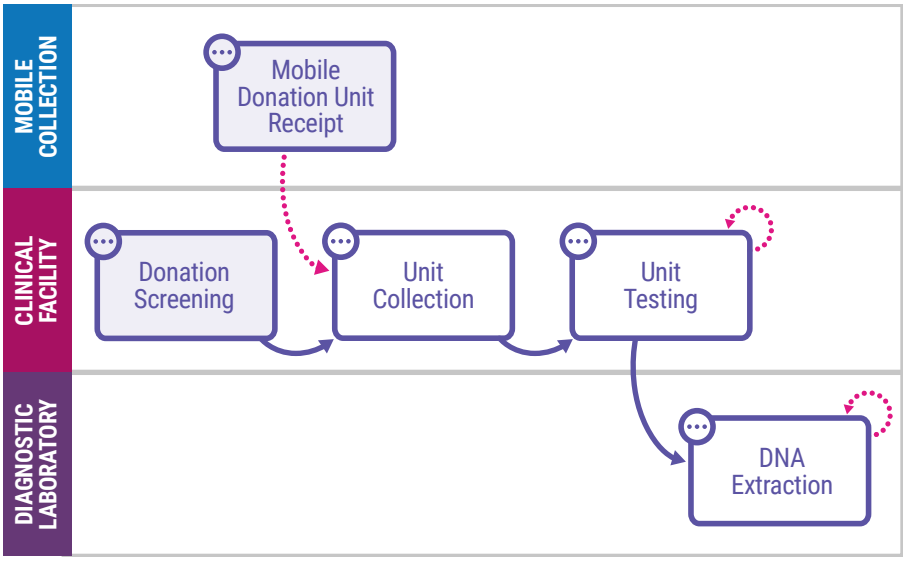
Scientific collaborations across global teams, sites, and organizations, along with the added complexities due to version and revision management, data integrity and regulatory controls, and audit trails, require a **digital standard to represent science** that is standardized, versioned, qualified, executed, shared, and easily converted to a human-readable format (e.g., PDF). The sharing of a scientific process should be analogous to sharing a song. One does not want to share the sheet music; one rather wants to share and receive the MP3 file that can immediately be played. Establishing the digital standard of science is the only path forward to achieve true digital transformation within the life sciences industry.

THE SOLUTION IS L7|MASTER®

L7|MASTER®, a foundational application of the L7 Enterprise Science Platform (L7|ESP®), is a low code/no code authoring tool that enables the creation of any scientific data and process model as a single digital standard, similar to the MP3 file for music. The intuitive user interface provides simplified drag-and-drop features for non-technical users to configure process and data models, thereby reducing the time to define research, development, manufacturing, and diagnostic processes *with inherent* FAIRification[1] capabilities. Furthermore, the L7|MASTER application provides its users with complete control of its content with a simplified library to reuse composable process and data models when creating processes, further achieving data standardization and harmonization across global and interdepartmental organizations.

L7|MASTER BENEFITS

- Accelerate new product introductions (NPIs), and this at lower cost due to the library of ready-to-use standard content to jumpstart the digitalization journey with the reusability of digital protocols.
- Streamline technology transfers between organizations through digital first collaboration, sharing, and distribution of experiments, test methods, master batch records (MBRs), or diagnostic assays.
- Reduce disruption associated with change management, where scientific users can configure and version up scientific processes without dependence on centralized IT teams.



- Reduce the overhead for adoption and training of employees on L7|ESP as digital versions of scientific processes available in L7|MASTER can be directly executed in L7|ESP applications, including L7 LIMS, L7 Notebooks, L7 MES, and L7 Scheduling.
- Reduce TCO (total coast of ownership) as fewer citizen developers are required to manage the library of scientific processes.
- Leverage complete audit trails, rapid approvals, version control, and a GMP/GCP/GLP compliant database to enable risk-based validation.

[1] FAIR data is data that meets the principles of findability, accessibility, interoperability, and reusability. L7|ESP enables FAIRification of data and processes.

L7|MASTER CAPABILITIES

- Creates and manages building blocks for all types of scientific digital processes and process sequences with innate audit trailed version control.
- Manages all business object types (i.e., master data) and entities (e.g., samples, documents, instruments, and equipment) as they move through workflows regardless of complexity (e.g., feed-forward and feed-back loops).
- Supports integration with ontology management systems and terminology servers to enable better business intelligence, AI/LLM, and predictive modeling.
- Provides a drag-and-drop, low code/no code authoring tool that can be extended via customized HTML code and enables graphical representation of data and process models.
- Offers out-of-the-box data models, via an intuitive UI, for all traditional aspects of science (e.g., user representation of reagents, freezers, plates, and plate layouts).
- Supports collaborative data and process modeling across scientific teams.
- Supports connectivity to external instruments, equipment, and software systems.
- Generates human-readable PDF documents such as Master Batch Records (MBRs) to enable companies to adopt a digital first framework for the modeling of science and still be able to distribute this as PDF documents.

L7|MASTER is for:

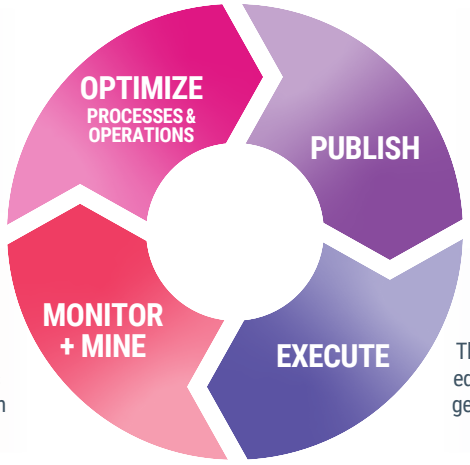
- **Research scientists, process engineers, technical writers, Tech-Ops, assay developers, pipeline and process developers, and IT infrastructure and laboratory managers** across drug research, development, and manufacturing, and clinical diagnostics that use, develop, optimize, and share digitalized scientific data models and protocols.
- **Therapeutics research, development, manufacturing, and diagnostics lab managers** that need to control the deployment of new digitalized scientific protocols and SOPs.
- **CROs and CDMOs** that need to streamline technology transfers from one site to another or with their clients and collaborators.

L7|MASTER IS PART OF THE UNIFIED PLATFORM L7|ESP

The L7|MASTER is a key element of the Unified Platform L7|ESP, with its Workflow Orchestration and Data Contextualization, where L7 Notebooks, L7 LIMS, L7 MES, L7 Scheduling, and other scientific data and process management applications reside.

L7|MASTER®
A low code/no-code scientific data modeling and process design tool.

L7|HUB®
An application that enables FAIRification of digitalized experiments, scientific methods, manufacturing recipes, master data models, instrument and equipment connectors, and more.



L7|INTELLIGENCE®
The business intelligence framework that automatically extracts data captured during scientific process orchestration to provide key stakeholders with operational and scientific intelligence and reporting.

L7|ESP Enterprise Science Platform®
The core execution engine that connects to instruments, equipment, and other software and data analysis tools to generate experimental results, data, batch manufacturing records and certificate of analysis, and more.

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L7 Informatics reimagines data intelligence for modern life sciences and healthcare organizations. Beyond simple data management, L7 provides tools that optimize the flow of information between processes and people, unlocking innovation at every stage of the clinical, research, and manufacturing value chains.