Sysmex

Intelligent, cloud-based and on-premise IT solutions for clinical laboratories, providing workflow automation, auto-validation, and data management for diagnostics (hematology, urinalysis, hemostasis).

https://www.sysmex.com/

Overview

Sysmex IT Solutions represent a comprehensive suite of software products, including the cloud-based **Caresphere™ Workflow Solution (WS)** and the established middleware, **Sysmex WAM™ (Workflow Automation Manager)**, designed to optimize clinical laboratory operations. The solutions are primarily focused on diagnostics in hematology, urinalysis, and hemostasis.

Key Features and Capabilities

Workflow Automation & Auto-Validation: Core to the offering, products like Caresphere WS and WAM utilize rules-driven decision support technology to enable high-volume auto-validation of test results, significantly reducing the need for manual review and improving Turnaround Time (TAT).

Multi-Site/Enterprise Management: The software supports multi-site and multi-LIS environments, allowing for the standardization of rules, protocols, and result handling across an entire network of laboratories.

Quality Control (QC) & Data Management: Sysmex integrates solutions like **Unity Next Peer QC** for hemostasis systems, providing peer comparison, comprehensive QC data, and digital sign-off to optimize quality control processes.

Digital Cell Morphology: The **Sysmex DI-60™ Automated Digital Cell Morphology System** integrates with the software suite to provide automated digital imaging, cell pre-classification, and remote review capabilities, allowing for real-time collaboration between laboratorians and clinicians.

Regulatory Compliance Support: The **Sysmex Validation Solution (VS)**, included with Caresphere WS, automates the creation and running of test scripts for autoverification rule validation, capturing evidence for comprehensive regulatory reporting.

Proactive System Monitoring: The Sysmex Network Communications System™ (SNCS) provides continuous remote service and monitoring to ensure high analytical performance and system uptime.

Target Users and Use Cases

Sysmex IT solutions are utilized by a wide range of healthcare organizations, including national and public hospitals, general hospitals, university medical centers, and commercial clinical laboratories of all sizes—from small to large enterprise-level networks. The primary use cases are:

Clinical Workflow Optimization: Streamlining sample processing, reducing manual intervention, and improving efficiency for routine and STAT samples.
Standardization and Quality Assurance: Enforcing consistent sample handling and quality control across multiple instruments and laboratory sites.
Regulatory Compliance: Simplifying the validation and documentation required for autoverification rules (e.g., CLSI recommendations) and meeting compliance standards like HIPAA and HITRUST CSF®.

Key Features

- Rules-Driven Auto-Validation

- Multi-Site/Multi-LIS Management

- Clinical Workflow Automation (WAM/Caresphere WS)

- Regulatory Compliance Validation (Sysmex VS)

- Inter-Laboratory Quality Control (Unity Next Peer QC)

- Automated Digital Cell Morphology (DI-60)

- Real-Time System Monitoring (SNCS)

- Customizable Rules and SOPs

Pricing

Model: subscription

Enterprise subscription model, including SaaS options like Caresphere WS. Pricing is typically based on the scope of the laboratory network (number of sites, analyzers, and modules). Contact Sysmex for a custom quote.

Target Company Size: small, medium, enterprise

Integrations

Laboratory Information Systems (LIS), Hospital Information Systems (HIS), Sysmex Hematology Analyzers (XN-Series), Sysmex Hemostasis Analyzers (CS-Series), Bio-Rad (Unity Next Peer QC), FHIR-based Open APIs

Compliance & Certifications

HIPAA, HITRUST CSF, FDA 21 CFR Part 820, ISO 13485, ISO 14971, CAP Accreditation, ISO 15189