Atellica Process Manager

Do more than control processes.
Optimize them.

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SIEMENS
Healthineers

Laboratories Seek Cost Savings and Process Efficiency

With an increasing focus on making healthcare more affordable, every area of the healthcare system is being tasked with implementing improvements that will lead to increased productivity and cost savings.

Because laboratories often lack concrete performance metrics that detail their system, reagent, and automation efficiency, it can be challenging to identify underlying inefficiencies. For laboratory networks and multisite healthcare organizations, it is even more complex to uncover and correct the errors that are costing time and money.

Goals	Obstacles	Solution: Atellica Process Manager
Deliver faster, more consistent TAT	Poor visibility into problem samples	User-defined TAT rules and alerts on at-risk samples enable transparent and predictable turnaround times.
Increase workforce productivity	Operation and instrument oversight keeps skilled staff from value-added tasks	Centralized dashboard provides real-time, customized alerts, reducing hands-on time and enabling staff to focus on higher-priority tasks.
Reduce errors	Difficulty identifying pre-analytical sample errors	Advanced analytics uncover sources of preanalytical errors, enabling discrepancies to be determined and corrected.
Standardize and optimize clinical operations	Difficulty tracking and assessing KPIs	Customizable performance reports enable labs to baseline, track, and determine process improvements.
	Unstandardized processes	Built-in analytics and business intelligence capabilities help to uncover inefficiencies, enabling quick implementation of changes.

Control

Simplicity

Better Outcomes

A New Level of Insight through Digitalization

Atellica® Process Manager is a testament to Siemens Healthineers commitment to digitalize healthcare and enable healthcare providers to achieve better outcomes at lower cost. With Atellica Process Manager, we help you do more than control processes; we help you uncover inefficiencies and standardize operations to save time and money. Based on our leadership in laboratory automation and a wealth of knowledge gained over 20 years of workflow consultations, Atellica Process Manager was designed to optimize clinical operations in laboratories throughout the world.

With insight from labs like yours, we've designed and included the top 10 high-value reports—including reagent efficiency, alert history, automation utilization, and more—as a standard feature. Plus, unlike other off-the-shelf software solutions, Atellica Process Manager offers seamless integration with your lab's data-management system to immediately unify data files from connected systems and automation. The combination of immediate access to data and preprogrammed standard reports provides labs rapid insight into workflow inefficiencies and the ability to take swift action to implement improvements.

Baseline:
Determine your current performance levels.

Identify:
Pinpoint inefficiencies in workflow, including pre- and post-analytics.

Measure:
Analyze performance metrics to determine if KPIs have been met or additional improvements are required.

Optimize:
Correct inefficiencies, such as rebalancing your system workloads.

"Our laboratory was one of the first in the whole world to test the Atellica Process Manager along with Aptio automation. It had so many benefits to our daily work that we are now using it in our daily routine."

Dr. Pirjo Hedberg,
Head Chemist,
NordLab

About NordLab
NordLab is a laboratory test provider for several hospitals in the Northern part of Finland, serving approximately half of Finland. NordLab Oulu is their main laboratory serving Oulu University Hospital 24/7. Annual volume is 8.5 million laboratory tests, with 2.5 million tests analyzed via their total lab automation solution in Oulu. Lab automation consists of pre-analytics, clinical chemistry, immunochemistry, hemostasis, and post-analytics.

From Process Control to Process Optimization
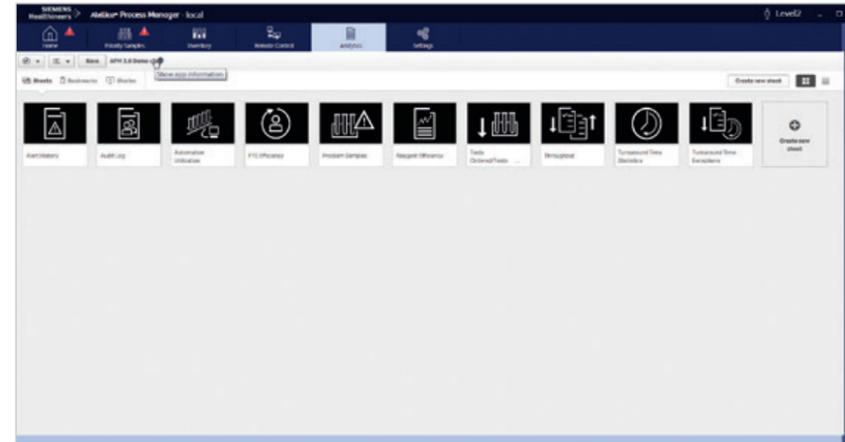
Standardize and optimize clinical operations through built-in analytics and business intelligence capabilities.

- Increase productivity by balancing tests among connected systems with detailed automation utilization and system reports.
- Track the productivity of both automated and stand-alone systems throughout your laboratory network with customizable performance reports.
- Identify trends by reviewing throughput and exception details by test, time, and patient location.
- Ensure sufficient onboard inventory is available for testing with low-reagent and low-consumable alerts.
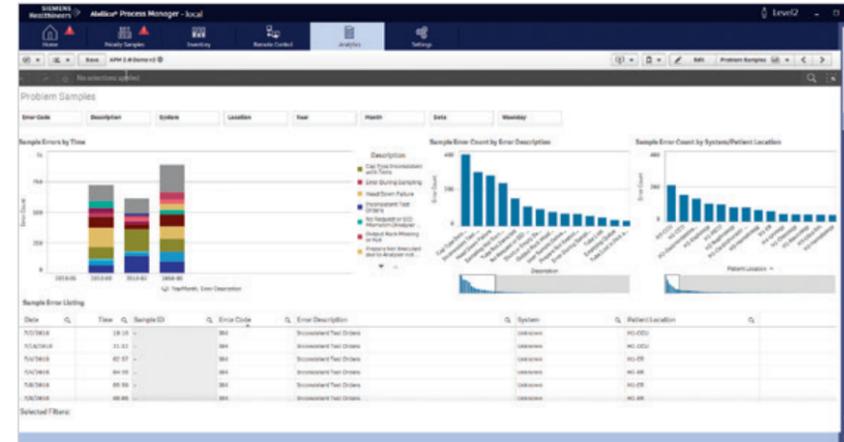
Identify and resolve problems with intelligent and customizable analytics.

- Gain immediate access to a library of standard reports and uncover inefficiencies so you can implement change quickly.
- Develop customized reports based on metrics that you define, with reports that you specify.
- Identify and resolve sample errors that occur in the pre-analytic, analytic, and post-analytic stages with advanced performance metrics.
- Generate reports in real time without having to export data to another platform.

Increase workforce productivity with a centralized dashboard for operational oversight.

- Control all systems, view reagent levels, and review testing progress from one screen.
- Access color-coded alerts and sample details in the lab or remotely via any network client workstation.
- View the real-time process status of automation, IT, and connected instruments with customized alerts, reducing hands-on time and enabling staff to focus on higher-priority tasks.
- Configure your individual lab's layout—including zones to view different laboratories, locations, or sites, if desired—on our proprietary, intuitive 3-D control panel screen.
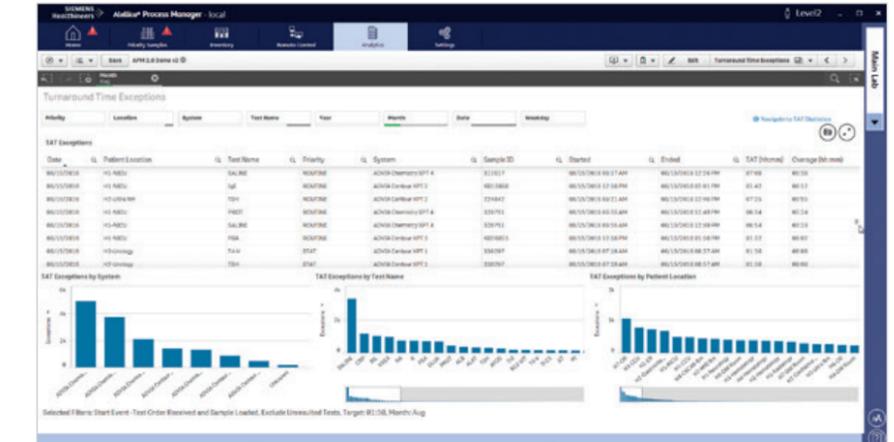
Deliver transparent and predictable turnaround times through the implementation of rules and at-risk sample alerts.

- Implement test-specific TAT rules and receive alerts for samples before they exceed your lab's TAT targets.
- Manage priority samples (e.g., STAT samples) and turnaround-time exceptions to deliver predictable turnaround times.
- Customize alerts, dashboards, and priority sample rules to accommodate your workflow needs.
- Measure TAT performance with reports that help you gain transparency to your operations.

Technical Specifications

Performance metrics

Testing volume	Up to 1,000,000 tests/day with 1-year data retention, or up to 500,000 tests/day with 2-year data retention; Peak of 150,000 tests/hour.

Automation and IT requirements

Required interfaces

Aptio® Automation with Data Management System (DMS) or FlexLab® with DMS

Supported interfaces

Immunoassay systems	Atellica® IM 1300 Analyzer*
	Atellica IM 1600 Analyzer*
	ADVIA Centaur® XPT Immunoassay System
	ADVIA Centaur XP Immunoassay System
	IMMULITE® 2000 XPi Immunoassay System
	IMMULITE 2000 Immunoassay System
Chemistry systems	Atellica CH 930 Analyzer*
	Atellica NEPH 630 System*
	ADVIA® Chemistry XPT System
	ADVIA 2400 Clinical Chemistry System
	ADVIA 1800 Clinical Chemistry System
Integrated systems	Atellica Solution*
	Dimension Vista® 500 Intelligent Lab System
	Dimension Vista 1500 Intelligent Lab System
	Dimension® EXL™ 200 Integrated Chemistry System
	Dimension EXL with LM Integrated Chemistry System
Other	VersaCell® System
	Third-party systems†
	CentraLink® Data Management System
	LIS

Remote control†

Remote control from the Atellica Process Manager client to any connected device that supports i2i (Siemens Healthineers instruments), VNC (remote-control protocol), or Remote Desktop (part of Microsoft Windows OS)

Language support

User interface	Brazilian Portuguese, English, French, German, Italian, Japanese, Simplified Chinese, and Spanish
	For messages sent from instruments to Atellica Process Manager, the language displayed will be identical to the language selected for the instrument.

Security

Management of security roles and privileges

Permission-based authorization of service operations

Hardware requirements

Atellica Process Manager Server requirements

Component	Minimum
CPU	64-bit, 4-core server-class processor, such as INTEL XEON family or equivalent
Memory (RAM)	8 GB
Hard drive space	60 GB (noncompressed)
Network adapter	100 Mbps Ethernet adapter or higher; Gigabit Ethernet recommended
DVD-ROM drive	Required for installation

Data Router Server requirements

Component	Minimum
CPU	64-bit, 4-core server-class processor, such as INTEL XEON family or equivalent
Memory (RAM)	8 GB
Hard drive space	200 GB (noncompressed)
Network adapter	100 Mbps Ethernet adapter or higher; Gigabit Ethernet recommended
DVD-ROM drive	Required for installation

Analytics Server requirements

Component	Minimum
CPU	64-bit, 4-core server-class processor, such as INTEL XEON family or equivalent
Memory (RAM)	64 GB for volumes up to 100,000 tests/day 320 GB for volumes up to 1,000,000 tests/day
Hard drive space	500 GB (non-compressed); recommend placing the application and data files on a separate drive from the MICROSOFT WINDOWS system drive (for example C: 100 GB containing operating system; D: 400 GB containing analytics share and data folders)
Network adapter	100 Mbps Ethernet adapter or higher; Gigabit Ethernet recommended
DVD-ROM drive	Required for installation

SQL Server system requirements

Component	Minimum
CPU	64-bit, 4-core server-class processor, such as INTEL XEON family or equivalent
Memory (RAM)	24 GB
Hard drive space	280 GB (noncompressed); recommend placing the SQL Server data file and SQL Server log file on separate drives (for example C: 60 GB containing operating system; D: 200 GB containing SQL data file; E: 20 GB containing SQL log file)
Network adapter	100 Mbps Ethernet adapter or higher; Gigabit Ethernet recommended

Client requirements

Component	Minimum
CPU	64-bit, multi-core processor, such as INTEL CORE i5 family or equivalent
Memory (RAM)	4 GB available memory
Hard drive space	2 GB available space (noncompressed)
Monitor	1280 x 720 or higher resolution
Network adapter	100 Mbps Ethernet adapter or higher; Gigabit Ethernet recommended
Keyboard	Required
Mouse	Required
DVD-ROM drive	Required for installation

Software requirements

Atellica Process Manager Server software requirements

Software	Minimum
Operating system	MICROSOFT WINDOWS Server 2012 R2 Standard SP1; 64-bit
Internet browser	Internet Explorer 11 or later

SQL Server software requirements

Software	Minimum
Operating system	MICROSOFT WINDOWS Server 2012 R2 Standard SP1; 64-bit
SQL Server	SQL Server 2012 Standard SP3; 64-bit SQL Server 2014 Standard SP2; 64-bit

Atellica Process Manager Client software requirements

Software	Minimum
Operating system	MICROSOFT WINDOWS 7 SP1; 64-bit, Professional, Enterprise, or Ultimate MICROSOFT WINDOWS 10; 64-bit, Professional or Enterprise
Internet browser	Internet Explorer 11 or later

Data Router Server software requirements

Software	Minimum
Operating system	MICROSOFT WINDOWS Server 2012 R2 Standard SP1; 64-bit

Analytics Server software requirements

Software	Minimum
Operating system	MICROSOFT WINDOWS Server 2012 R2 Standard SP1; 64-bit
Internet browser	Internet Explorer 11 or later

Software version

Version 2.0

To learn more about how Atellica Process Manager can help you achieve better outcomes at lower costs, please contact your local Siemens Healthineers account representative today.