Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

The outcomes obtained by the Siemens Healthineers customers described here and in research case studies were realized in the customers' unique setting. Since there is no typical laboratory, and many variables exist, there can be no guarantee that others will achieve the same results.

References:

1. McHugh TM. Computerized inventory management systems help labs stay in control. MLO. 2011;(43)7:38-40.
2. 2016 data provided from a hospital with a central lab, microbiology lab, and serology and hematology lab.
3. Using RFID for the management of pharmaceutical inventory. Decision Support Systems Journal. 2011;51:842-52.
4. Based on interviews with Excela Health System and Klinikum Frankfurt Höchst.

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Atellica Inventory Manager

The right materials at the right time—automated, real-time control of reagents and consumables across multiple locations

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SIEMENS Healthineers

Say Goodbye to Manual Inventory Management

Ordering materials and tracking usage manually is time-consuming, costly, and prone to error and variability.

Up to 50%

Average amount of a laboratory's annual operating budget that is spent on reagents and consumables.[1] Even small inventory errors can increase costs for the lab.

>620 Hours

Annual time it takes staff to perform manual inventory management in a two-hospital, multi-lab setting.[2] Atellica Inventory Manager (Atellica IN) reduces manual inventory processes.

"Without Atellica Inventory Manager, our lab would be a little more chaotic. Now we do our inventory and ordering with the push of a button, saving us a significant amount of time."

Dr. Oliver Colhoun, Medical Director, Klinikum Frankfurt Höchst, Germany

Siemens Healthineers is digitalizing healthcare to help you decrease cost, save time, and improve inventory quality.

With Atellica® Inventory Manager, you can:

- Gain total inventory control across multiple locations by utilizing cloud-based software and no-touch RFID tracking of reagents and consumables
- Analyze inventory usage over time, to better predict demand, reduce waste, and automate order processes

Saving Time and Money

"With Atellica Inventory Manager, we decreased the amount of expired product, so we're using everything that is on hand."

Shelly Trout, MT (ASCP), Chemistry System Supervisor, Excela Health System, U.S.A.

>75% Savings

RFID inventory management may save over 75% of the costs of manual inventory management.[3]

Atellica IN can provide year-over-year savings[4] by reducing:

- Staff resources required for inventory management
- On-hand inventory (holding costs)
- Waste due to expiring products
- Emergency shipments
- Send-out services

Quality Begins with Inventory

Quality inventory management processes are required by accreditors and mandated in established regulatory guidelines. Atellica IN supports good laboratory practices by:

- Reducing the risk of downtime that can affect patient and clinical outcomes by providing an uninterrupted flow of needed materials
- Lowering the possibility of human error and variability with a standardized and centralized ordering process
- Providing traceability of reagents and consumables, from ordering to consumption†
- Optimizing stock levels at all times at multiple lab locations for total inventory control

†Siemens Healthineers eCommerce is required. Siemens Healthineers eCommerce is not available in all countries. Please contact your local representative for availability.

One Process for All Inventory

One-click Check-in

Save time with RFID-prelabeled Siemens Healthineers reagents and consumables that allow for one-click check-in.*

Print labels to track third-party consumables and non-labeled products.

Instant Quality Information

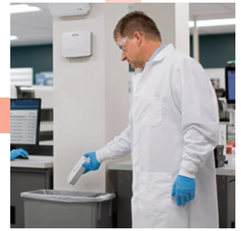
Check-in* provides access to product names, lot numbers, delivery dates, and expiration dates that are tracked by the system to help maintain documentation and testing quality.

Intelligent Order Management

Set ordering rules according to preference: by frequency, critical stock level threshold, and automatic reorder proposals.

Atellica IN can approve orders automatically, or review and approve with one click.

Once an order is submitted, view real-time shipping status updates.†



Discard-and-done Check-out

Check out items by simply discarding empty boxes. The system's antennae detect discarded RFID-labeled boxes and automatically update inventory levels.

Reconcile stock in minutes with the hand-held RFID scanner.

*Availability of Siemens Healthineers RFID pre-labeled reagents and consumables varies by country.
†Siemens Healthineers eCommerce is required. Siemens Healthineers eCommerce is not available in all countries. Please contact your local representative for availability..

For Any Location at Any Time

Oversee all reagents and consumables across multiple lab locations!

Hospitals | Reference Labs | Clinics | Research Facilities

With One Simple System

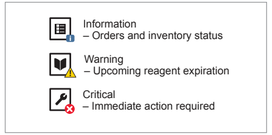
Access the cloud-based web application using any Internet-connected device.

Simplified Software

Review at-a-glance dashboards showing inventory status of all lab locations.

Ordering Status

Review shipping status updates so you can proactively address shipping delays and backorders.†



Automated Alerts

Receive notifications that indicate stock level, ordering status, expiry warnings, and Atellica IN hardware conditions.

Reporting

Generate and save reports for traceability of reagents and consumables, from ordering to consumption.

Technical Specifications

Information about Atellica Inventory Manager (Atellica IN) for the laboratory IT department. Additional information is available upon request.

Laboratory Infrastructure Requirements

A laboratory-provided computer is used to communicate between the RFID hardware and the Atellica IN Server. It is the only device that requires a high-speed Internet connection. Although there are no known limitations with the use of other software, it is recommended to use and configure the laboratory-provided computer for Atellica IN only. RFID hardware does not require access to the Internet and must reside on the same network as the laboratory computer. This network can be its own private network or belong to the rest of the laboratory network at your discretion. Data is encrypted when stored to the Atellica IN web application and can be accessed by any computer connected to the Internet.

Access to the Atellica IN web application is protected under the Internet security already used by your facility. Since the laboratory computer is owned by your lab and may be located inside your lab network environment, you are responsible for its security. Internet security provided by your facility should include:

- Firewall settings
- Network security
- Wi-Fi security
- Latest security patches
- Up-to-date virus and malware protection

Laboratory Provided Computer Prerequisites	
Minimum System Specifications	RAM: 4 GB minimum
	HDD: Two HDD with RAID 1 mirrored, at least 10 GB free space/drive
	Processor: 1.2 GHz dual core
	USB ports: Two
Operating System	Windows 7 64-bit Professional, Enterprise, or Ultimate

The following software will be installed on this PC (administrator rights are required): Microsoft.NET Framework 4.5, Java Version 7 or 8, PostgreSQL 9.5, Atellica IN Controller Service, Atellica IN Client Configuration App, My Mobiler Software, Windows Mobile Device Center

Unblocked Ports	
Internet	Outbound: 443 (connects to https://slim.diagnostics.siemens.com/ laboratory site name)
	Outbound: 80 (certificate renewal). Can be restricted to allow access only to http://se.symcb.com/se.crl and http://crl.verisign.com/pca3-g5.crl.
Local Network	Inbound: 12201 and 12203 (RFID Handheld)
	Outbound: 9100 (RFID Printer)
	Outbound: 5084 (RFID Reader)

IP Assignments			
Hardware	IP Address	Host Name Provided	MAC Address
Laboratory Computer	Fixed	Configurable by laboratory	Yes
RFID Reader	Fixed	Yes	Yes
RFID Printer	Fixed	No	Yes
RFID Handheld	Variable or fixed	Yes	Yes
Using DHCP reservation based on the hardware's MAC address is recommended.			

Software Specifications‡

The Atellica Inventory Manager web application is a cloud-based, private, secure website.

Please refer to the Security Whitepaper for detailed security information.

Atellica Inventory Manager Web Application	
Language Supported	English or German
Internet Connection Protocol	HTTPS
Internet Browser Supported	Internet Explorer 11; Firefox 33 or higher; Chrome version 52 or higher
Min. Display Resolution Required	1024 x 768
Optional eCommerce subscription§	

Consumables

RFID Label	
Integrated Circuit	NXP U-Code G2iM
Operation Frequency	860–960 MHz
Air Protocol	EPC Class 1 Gen 2, ISO 18 000-6C
Operating Temp.	-40 to +85°C (-40 to 185°F)
Shelf Life	2 years from manufacture date (+20°C, 50% RH/68°F, 50% RH)
Others	ESD voltage immunity ±2 kV peak HBM
2000 labels/roll, 1 roll per package	

RFID Printer Ribbon	
Width	50 mm (1.96 in.)
Length	450 m (1476 ft.)
Color	Black
Operating Temp.	5 to 35°C (41 to 95°F)
Up to 5000 printing labels, 1 ribbon per package	

Hardware Specifications‡

RFID Reader	
Weight	0.83 kg (1.8 lb) including power supply
Dimensions (H x W x D)	196 mm (7.7 in.) x 150 mm (5.9 in.) x 43 mm (1.7 in.)
Frequency (UHF Band)	**Global:** 902–928 MHz (maximum, supports countries that use a part of this band), 865–868 MHz; **U.S.:** 902–928 MHz
Air Protocols	EPC global UHF Class 1 Gen2, ISO 18000-6C
Ethernet Interface	10/100BASE-T
Host Interface Protocol	LLRP
Operating Temp.	-20 to +55°C (-4 to +131°F)
Power Supply	Power adapter: Universal 100-240VAC~50/60Hz Optional POE Injector: refer to the POE Injector section below
Supports up to four antennas, can be wall-mounted.	

Power Over Ethernet Injector (Optional)	
Weight	0.23 kg (0.5 lb)
Dimensions (H x W x D)	198 mm (7.8 in.) x 56 mm (2.2 in.) x 41 mm (1.6 in.)
Standards	IEEE 802.3af
Ethernet Interface	10/100/1000BASE-T
Max. Output Power	16.8 W at 48 V
Operating Temp.	0 to 40°C (32 to 104°F)
Power Supply	Universal AC input: 100-240VAC~50/60Hz
POE Injector is optional to supply power to the RFID Reader for distances up to 100 m (328 ft).	

RFID Antenna	
Weight	1.13 kg (2.5 lbs) including 6 m (20 ft.) antenna cable
Dimensions (H x W x D)	295 mm (10.2 in.) x 295 mm (10.2 in.) x 50 mm (1.32 in.) with mounting bracket and screws
Frequency Range	865–956 MHz
Gain	6.0 dBiL
Polarization	LHCP or RHCP
3db Beamwidth	65° (horizontal and vertical), Read up to 4.8 m (15 ft.)
Max Power	2 watts
Axial Ratio	1.5 dB
Operating Temp.	-13° F to +158° F, -25° C to +70° C

RFID Handheld	
Weight	0.65 kg (1.4 lb) including battery, stylus, keypad, and strap
Dimensions (H x W x D)	193 mm (7.6 in.) x 119 mm (4.7 in.) x 163 mm (6.4 in.)
Display	7.6 cm (3 in.) QVGA color, 320 x 320 resolution, touchscreen
Battery	Li-Ion, 4,800 mAh @ 3.7 VDC (2X battery only)
Data Capture Options	RFID, 1D laser scanner, 2D imager
RFID Power Output	**EU:** 1 watt ERP; **U.S.:** 1 watt EIRP
RFID Frequency Range	**EU:** 865–868 MHz; **U.S.:** 902–928 MHz
RFID Standards Supported	EPC Gen 2 DRM (DRM-compliant up to 0.5W)
Wireless Communication	Tri-mode IEEE 802.11a/b/g
Wireless Security	WPA2 (Personal or Enterprise); 802.1x; EAPTLS; TTLS (CHAP, MS-CHAP, MS-CHAPv2, PAP or MD5); PEAP (TLS, MSCHAPv2, EAPGTC); LEAP, EAP-FAST (TLS, MS-CHAPv2, EAP-GTC); CCXv4-certified; support for IPv6; FIPS140-2-certified
Operating System	Windows CE 6.5
Operating Temp.	-10 to 50°C (14 to 122°F)
Ethernet Cradle	USB Mini-AB, RJ45 network, 12 VDC 3.33 A (Universal power adapter: 100-240VAC~50/60Hz) standard barrel port, charger for spare battery, network/USB switch to select communication type.
Handheld Ethernet connection can be wireless (recommended) or wired via the charging cradle.	

RFID Printer	
Weight	15 kg (33 lb)
Dimensions (H x W x D)	305 mm (12 in.) x 271 mm (10.75 in.) x 455 mm (18 in.)
Printing Method	Thermal transfer
Ethernet Interface	10BASE-T/100BASE-TX
Operating Temp.	0 to 40°C (32 to 104°F)
Power Supply	Universal auto-ranging, 100–240 VAC ±10%, 50/60 Hz
Power Consumption	**At peak:** 180 W/190 VA (Print ratio 30%); **Standby:** 19.5 W/40 VA
Write Power 24 dBm, Read Power 14 dBm Min. clearance of 305 mm (12 in.) above and to the right of the printer required.	

‡RFID Hardware models vary by country, depending on local regulatory or availability. RFID frequency is configurable as permitted by local regulation.
§Siemens Healthineers eCommerce capability varies by country.

Atellica Portfolio of Laboratory Products

Engineered by Siemens Healthineers to deliver control and simplicity so you can drive better outcomes.

Tighter control of your lab, simplified workflow, and more time to focus on driving better business and clinical outcomes—that's the promise of our Atellica® portfolio of laboratory products.

Control.
Simplicity.
Better Outcomes.