

thermo scientific



Get Reliable QC Results Faster

Thermo Scientific Auto-Connectivity Software

ThermoFisher
SCIENTIFIC



Daily QC and Peer Data in Real-Time

Say goodbye to manual data entry

Get instant access to peer data and QC metrics without any additional work. Say goodbye to manual entry with a fully automated QC data transfer solution from your instruments, L.I.S., or middleware to LabLink xL™ quality assurance software. Receive insightful metrics in real-time to increase confidence in results and get QC results out faster.

Hands-Free and Real-Time QC

- No more manual data entry with fully automatic QC data transfer
- QC results are uploaded to LabLink software instantly
- Save time with error-free data submission and increase confidence in results

Minimal setup required

- Easy to setup within a few hours. Talk to your Thermo Fisher Scientific specialist for more information
- Compatible with most clinical instruments, L.I.S., and middleware
- Works with existing lab IT configurations
- Easily add new instruments or QC products through a graphical interface

How It Works

- Auto-Connectivity software must be installed on a computer within your lab network and must have an internet connection
- Your L.I.S., Middleware, or instruments transmit results to the software
- The software looks for results that are flagged as QC results, and discards all other data
- QC results are then transmitted to your LabLink software account
- No manual data entry required

Faster Access to Peer Comparison

- Monitor global peer data alongside your lab's QC data in real-time
- Troubleshoot faster with instant access to performance metrics such as Westgard Rules and Sigma Score
- Get patient results out faster and reliably with real-time access to QC results

Secure and encrypted

- Only quality control data is sent to LabLink software
- No patient data enters LabLink software
- Password protection and data encryption keep information safe

Three Ways to Connect

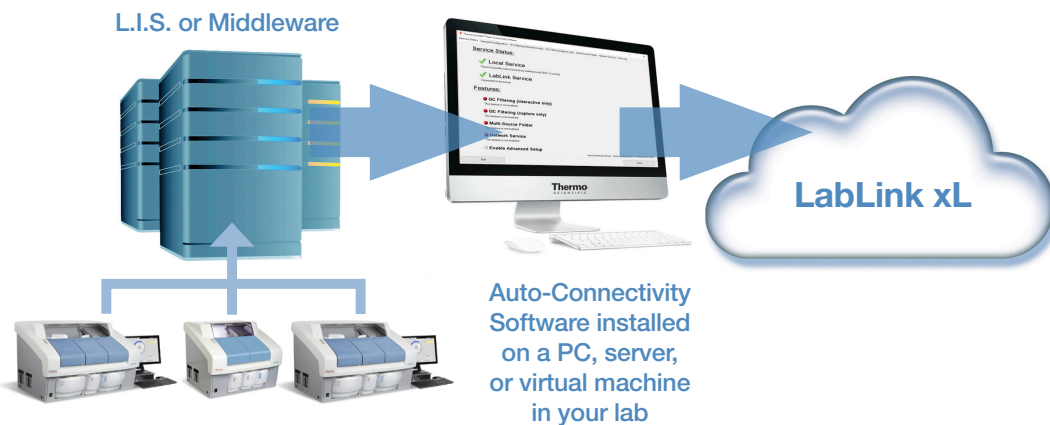
1 QC data directly from your instrument(s)

Auto-Connectivity software can capture data directly from instruments that support the LIS-1A (formerly ASTM E1381) protocol, which happens to be most of them.



2 QC data from your Laboratory Information System or Middleware

Auto-Connectivity software can interact with your L.I.S. or Middleware to extract QC data.



3 QC data from a file

Auto-Connectivity software can automatically upload QC data files (e.g. CSV or TXT) generated by your lab and send them to LabLink xL software. If you routinely export data files or have a custom or centralized server to manage QC files, this option may work best for you.



Compatibility

Auto-Connectivity Software can interpret QC data in the form of text files or LIS-1A (formerly ASTM E1381) messages. LIS-1A is a globally recognized communication protocol supported by most clinical platforms. Here is a list of popular platforms that support at least one of these communication methods.

Don't see your platform listed? Consult with your local representative, or email us at lablink.qap@thermofisher.com. Additional platforms can be supported, and we are constantly adding to the list.

Instruments

Thermo Fisher Scientific	Roche	Abbott	Beckman	Ortho Clinical	Siemens
Indiko	cobas 8000	Architect ci4100	AU480*	VITROS 5600	Atellica CH930
Indiko Plus	cobas 6000	Architect ci8200	AU5800	VITROS 4600	Atellica IM 1300
Kryptor	cobas 4000	Architect ci16200	AU680*	VITROS 350	Atellica IM 1600
Kryptor Gold	cobas c513	Architect c4000	DxC 600	VITROS 3600	Dimension EXL*
	Urisys 2400	Architect c8000	DxC 700 AU*	VITROS ECiQ	Dimension EXL 200*
	cobas u411	Architect c16000	DxC 800		Dimension RxL Max*
		Architect i1000SR	DxC 600i		Dimension Vista 500
		Architect i2000SR	DxC 660i		Dimension Vista 1500
		Architect i4000SR	DxC 680i		Dimension Xpand*
		Alinity c series	DxC 860i		ADVIA Centaur XPT
		Alinity i series	DxC 880i		ADVIA Centaur XP
		Alinity hs series	Access 2		IMMULITE 2000 XPi
		Alinity hq series	UniCel Dxl 600 Access		IMMULITE 1000
			UniCel Dxl 800 Access		

Laboratory Information Systems and Middleware:

Platform	Supports ASTM	Supports QC Data File Capture
Beaker	Yes	No
Centralink	Yes	Yes
Cerner Millennium	Yes	Yes
Cobas infinity	Yes	Yes
Cobas IT 3000	Yes	Yes
Data Innovations	Dedicated Cloud Communicator Driver connects to LabLink xL directly	
GLIMS	Yes	Yes
LabDAQ	Yes	Yes
Orchard Harvest	Yes	Yes
Remisol Advance	Yes	Yes
SoftLab	Yes	Yes
Sunquest	Yes	Yes
Thrive EHR	Yes	No
TrakCare	Yes	No



* Denotes a platform that must be connected to an L.I.S. or Middleware to be compatible with Auto-Connectivity Software



Security Overview

Authentication

The software is designed to be compatible with the lab's internal security configuration without interfering with local security policies and firewalls. Depending on your internal procedures, your IT team may need to whitelist specific URLs or IP addresses used by the Auto-Connectivity software. While transporting the QC data from within your organization to LabLink xL's data center, the software will use whichever security policy is enabled by your organization's firewall. The software currently supports TLS 1.1 and TLS 1.2.

Encryption

All QC data is transferred unidirectionally to LabLink xL software using security hash algorithm SHA-256 and up to TLS 1.2 encryption.

Anti-Virus compatibility

All data communicated by the Auto-Connectivity software can be actively monitored by anti-virus software. You may need to add Auto-Connectivity as a trusted program in your anti-virus software.

Access and Permissions

Windows Admin User is required for the installation and configuration of the Auto-Connectivity software. The Auto-Connectivity graphical user interface requires users to have a login ID and password to be able to view and modify auto-connectivity configuration details.

Patient Data Privacy

No patient data is saved or transmitted to LabLink xL software. Patient data never leaves the lab. Only QC data is stored and transmitted to LabLink xL software.

The Auto-Connectivity Software reads data sent by the L.I.S., middleware, or instruments depending on your auto-connectivity configuration. The Auto-Connectivity Software extracts QC data by looking for lab-defined QC sample ID(s) in outgoing data. These sample IDs are configured in the graphical user interface, and only data for the configured QC sample ID(s) are stored and transmitted to LabLink xL software. As a result, only QC data is stored and transmitted to LabLink software, and Patient Data is not stored or transmitted. The data LabLink xL receives is logged and can be tracked from within LabLink xL software as well as the Auto-Connectivity graphical user interface installed on the Windows PC.

Vulnerability

The software is built using the Microsoft .NET framework and C# programming language. Please refer to Microsoft's website for vulnerabilities related to Microsoft NET framework 4.5 or higher.

Functional Environment

Auto-Connectivity Software is built using the C# programming language, a general-purpose, object-oriented programming language developed by Microsoft. It utilizes the Microsoft .NET framework version 4.5 or higher.

System Requirements

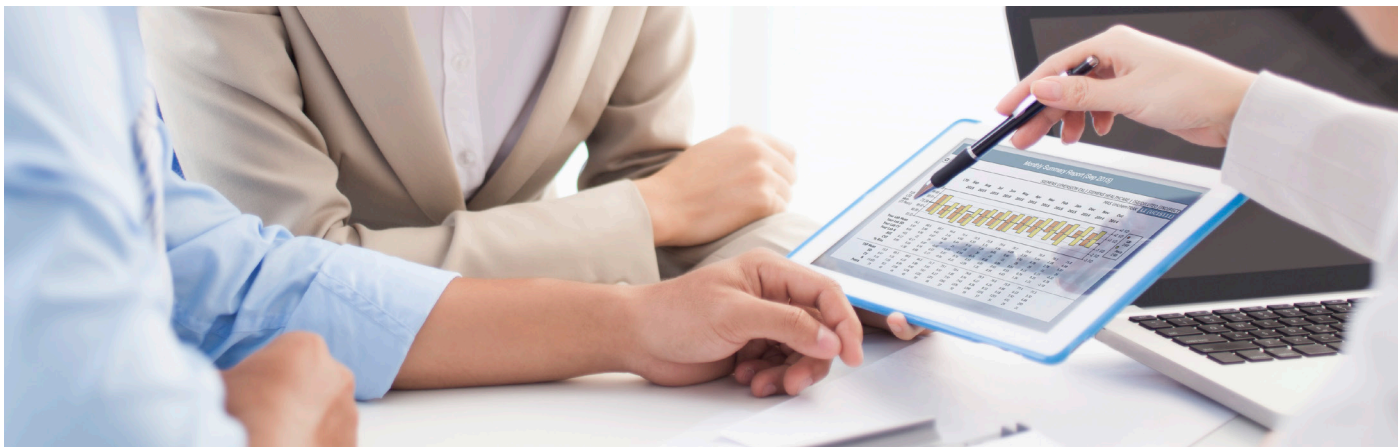
Operating System	<ul style="list-style-type: none">• Windows® 10• Windows® 7 SP1• Windows® Server 2008 R2 SP1 (64-bit)• Windows® Server 2012 and 2012 R2 (64-bit)• Windows® Server 2016 (64-bit)
Installed Software	.NET Framework 4.5 or higher
RAM	512 MB (minimum) 1 GB or more (recommended)
CPU	<ul style="list-style-type: none">• Intel® Pentium® III or higher• AMD® AM386 or higher• 500 MHz (minimum) 1 GHz or more (recommended)
Storage	50 MB
Internet	Auto-Connectivity Software must be installed on a computer within your lab network and must have an internet connection. Maximum bandwidth utilization by the Auto-Connectivity software is 256kb/s.
Network/Firewall	At least one of the following ports enabled for communication to LabLink xL software: HTTPS Port 443, HTTPS 8443, or HTTP Port 8080

QC Data File Capture Requirements

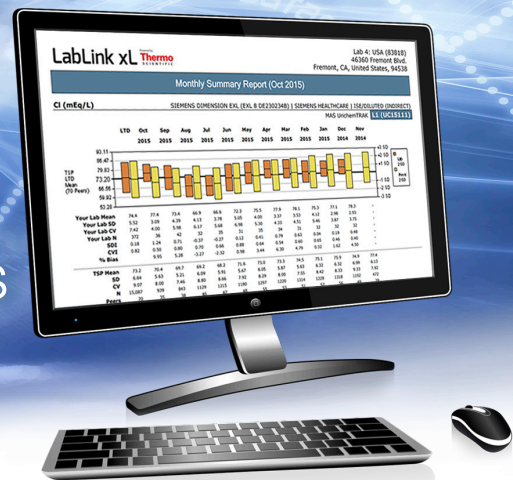
Supported data file formats	LIS-1A (formerly ASTM E1381) or Delimiter Separated Values files such as .TXT, .CSV, .DSV, pipe delimited or space delimited files
QC Data File Contents	Required: Instrument ID, QC Lot Number, QC Level, Test/Analyte ID, Date/Time of Run, Result Optional: Comments

Instrument, L.I.S., or Middleware Direct Connection Requirements

Communication protocol	Platform must support LIS-1A (formerly ASTM E1381)
Ports	A communication port must be opened within your internal network for each platform that will make a direct connection with the Auto-Connectivity software. The default port we use is 10100, but this can be customized by your lab.



Frequently Asked Questions



Q: Who should I contact for more information about Auto-Connectivity Software?

A: Contact your local Thermo Scientific MAS provider.

Q: Is the Auto-Connectivity Software Secure?

A: Yes. Auto-Connectivity Software uses TLS and/or Secure Socket Layer encryption (depending on which your lab supports) to ensure your data is protected.

Q: Is patient data transmitted to LabLink xL software?

A: No. Patient data is never saved or transmitted to LabLink xL software. Patient data never leaves the lab. Only QC data is stored and transmitted to LabLink xL software.

Q: What if my platforms are not listed on the compatibility page?

A: The compatibility page lists popular platforms that are known to be compatible with the software at the time this brochure was published. Your platforms will most likely be compatible. Plus, we are constantly adding new instruments to the compatibility list. Please contact your local representative or submit a request access form.

Q: What happens if I lose internet access? Will my QC data be lost?

A: If you experience an internet outage, your QC data will remain safe, but you will not be able to review results in LabLink during that time. QC data is temporarily backed up by the Auto-Connectivity software on a local folder where it is installed. When an internet connection is re-established, Auto-Connectivity software will transmit the data to LabLink xL software. During an internet outage, you will need to resort to your internal backup QC review processes until the connection is re-established.

Q: Will I need to get my IT department involved?

A: You will need your IT department to ensure that your firewall is enabled according to the specifications listed in the system requirements. It is recommended that your IT team is available during the installation. Our technical support team is available to answer any questions.

Q: Do I need LabLink xL to use this software?

A: Yes. Auto-Connectivity Software is intended to be used alongside Thermo Scientific LabLink xL Quality Assurance Software. If you do not have an account, please contact your local representative or submit a request access form.

Q: Can Auto-Connectivity Software be used with non-MAS products?

A: Non-MAS products are supported by Auto-Connectivity Software and LabLink xL Daily QC features such as report generation, Levey-Jennings charts, Westgard rules, multiple lab management, and affiliated lab review. Peer data for non-MAS products is not available at this time.

In the United States:

For customer service, call 1-800-232-3342

To fax an order, use 1-800-829-8115

To order online: customerservice@thermofisher.com

Find out more at maslablink.com/autoconnectivity

Availability of product in each country depends on local regulatory marketing authorization status.

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