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# Milli-Q® High Flow Systems data & user management and IT integration FAQ

#### **Purpose**

This document answers the most common questions regarding how the Milli- $Q^{\otimes}$  System handles data and users. It also answers some questions related to the integration of the Milli- $Q^{\otimes}$  System into an IT infrastructure.

This document is formatted as a Frequently Asked Questions (FAQ) for a better understanding.

In this document, the term Milli-Q® System refers to any of the following products:

- Milli-Q® CLX
- Milli-Q® HX
- Milli-Q® HR
- Milli-Q® HX SD

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## **General system design**

Does the Milli-Q® System need a computer to run?	□Yes	⊠No
Which OS is running on the Milli-Q® System?	Custom embedded Linux	
Does the Milli-Q® System have an antivirus software?	Not applicable (custom built operating	
	system)	
Does the Milli-Q® System allow configuration of backup/restore?	⊠Yes	□No
Is there a validation procedure (IQ/OQ) available for the Milli-Q® System?	⊠Yes	□No
Can the Milli-Q® System be used by the user to access the internet?	□Yes	⊠No
Is the Milli-Q® System a certified Medical Device?	□Yes	⊠No

### **Data storage**

Does the Milli-Q <sup>®</sup> System process or store Patient Data (PII or PHI)?	☐Yes	
Does the Milli-Q <sup>®</sup> System record personal data?	⊠Yes □No	
What personal data is recorded inside the Milli-Q $^{\tiny  exttt{@}}$ System?	There are 2 contact cards that can be entered with the following information:	
How does the Milli-Q <sup>®</sup> System store data?	In a database inside a file system located on an internal flash memory.	
Is data encrypted?	□Yes ⊠No	
What kind of data does the Milli-Q® System store?	Configuration     Calibration     History data	
	• HISTOLY UDIA	

History / audit trail / logs		
Does the Milli-Q® System keep traces of events?	⊠Yes	□No
What are the events which are recorded?	•	Alarms & alerts User login/logout Maintenance sequence started/canceled Configuration change
	•	New consumable or component installed System power on Software upgrade
Are the events timestamped?	⊠Yes	□No
If yes, does the timestamp follow ISO 8601 format rules?	⊠Yes	□No
Does the Milli-Q® System automatically adjust its time regarding summer and leap days?	⊠Yes	□No
Can the Milli-Q® System's date/time be synchronized with NTP service?	□Yes	⊠No
Does the Milli- $Q^{\otimes}$ System have a limitation in time or memory size for the retention of history records?	of⊠Yes	□No
If yes, what are these limits?		mately 1 year of history. ct limits are as follows: 10614 events 366 days of quality measures 366 days of operations
What will happen when these limits are reached?	deletes	in memory, the Milli- $Q^{\otimes}$ System 1/3 of the oldest records in the y that has reached its limit.
Can the history information be extracted/downloaded?	⊠Yes	□No
What is the format of the history extract?	XML file	s: 1 file for events 1 file for daily quality statistics 1 file for daily operational statistics
Are these files secured by digital signature or hash computation?	⊠Yes	□No
Can the events support electronic signature by the users?	□Yes	⊠No
Can a comment be added by the user to an event when it is recorded?	□Yes	⊠No
Can the Milli-Q® System back up history files automatically to a network drive?	□Yes	⊠No
If the preceding answer is no, is it still possible to automate this process from anothe system?	er⊠Yes	□No
Does the Milli-Q® System allow printing of history data directly from the system?	□Yes	⊠No
If no, is it possible to print indirectly by downloading history data then printing it from a computer?	m⊠Yes	□No



Can history data be imported into a tabular spreadsheet? (Microsoft Excel/Libreoffice Calc/Google spreadsheet)	⊠Yes	□No
Catcy Google Spreadsneet)		
User identification		
Does the Milli-Q® System allow several accounts or roles with elevated rights?	⊠Yes	□No
Are these accounts role-based or user-based?		sed, with only 1 predefined
What are the roles available in the Milli-Q® System?	account	Normal user
What are the foles available in the film Q System.	•	Lab manager
	•	FSE (Field Service Engineer)
Are the users identified with their real name? What access types are reserved for the lab manager role?	□Yes	⊠No System configuration
What accesses are reserved for the FSE role?	•	Advanced system configuration
	•	Calibration
How is the lab manager account secured?	Pv onton	Complex maintenance ing a single password (no login
now is the lab manager account secured?		r required)
How is the FSE account secured?		ing a special token (limited in
Described by account of the control		served to the FSE
Does the lab manager password expire?  Does the FSE password expire?	□Yes ⊠Yes	⊠No □No
Are typed passwords masked while typing them in?	⊠Yes	□No
Is there a way to disable/lock accounts?	□Yes	⊠No
Does the Milli-Q® System keep a trace of login failures?	□Yes	⊠No
Is the user session timed out if no activity is detected?	⊠Yes	□No
Contain authorization and at a		
System software update		
Can the Milli-Q® System software be updated?	⊠Yes	□No
How often is the Milli-Q® System software updated?	Typically	, for systems covered by service
		s, the system software is verified
		ear. If a new software version is
		e, the system software is d. For a connected system, the
		software may be upgraded
		(this feature can be canceled).
Who is in charge of updating the Milli-Q® System software?	Milli-Q® Service trained FSE	
Connectivity		
Can the Milli-Q® System be connected to a network?	⊠Yes	□No
Does the Milli-Q® System support Ethernet connectivity?	⊠Yes	□No
Does the Milli-Q® System support Wi-Fi?	□Yes	⊠No
Does the Milli-Q® System support 3G/4G cellular connectivity?	□Yes	⊠No
Can the Milli-Q® System be connected to the cloud?	⊠Yes	□No
What is the URL of the cloud where the Milli-Q® System connects to?		api.milliqconnect.com OR
	https://r	mymilliq.com
Is cloud connectivity mandatory for the Milli-Q® System to run?	□Yes	⊠No
Does the Milli-Q® System allow USB devices to be connected?	⊠Yes	□No
How is the USB port intended to be used?		jing in a USB stick, you can:
	•	Download history data
	•	Download configuration data
	•	Restore configuration  Download the user manual
	:	Install new software updates
Can the USB port be used to insert malicious files into the system?	File read	ling access is protected by
,		the digital signature of the
	imported	files for the following scenarios:
	•	Restore configuration
Dana the Mill: O® Custom and assured	•	Install software update
Does the Milli-Q® System embed servers? Which types of servers does the Milli-Q® System embed?	⊠Yes Web ser	□No ver (accessible from local
without types of servers does the rilling 2 system embed?		if connected)
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What protocols may be used by the Milli-Q® System?	HTTPS (TLS 1.2) for embedded web server HTTPS (TLS 1.2) for connection to the cloud if the Remote Care service is enabled DHCP for IP address assignment if setup as DHCP client DNS for resolving the cloud URL if the Remote Care service is enabled

# **System security and vulnerabilities**

Does the Milli-Q® System have a firewall?	⊠Yes	□No
Has the Milli-Q® System been tested against penetration?	⊠Yes	□No
Do the penetration tests performed comply with OWASP top 10?	⊠Yes	□No
Have vulnerabilities been detected?	⊠Yes	□No
Can these vulnerabilities be exploited?	□Yes	⊠No

### **Measures & precision**

Does the Milli-Q® System make any measurements?	⊠Yes	□No	
If yes, is the Milli-Q® System calibrated?	⊠Yes	□No	
If yes, what is the period of calibration/verification?	Once a year durir	Once a year during maintenance	

