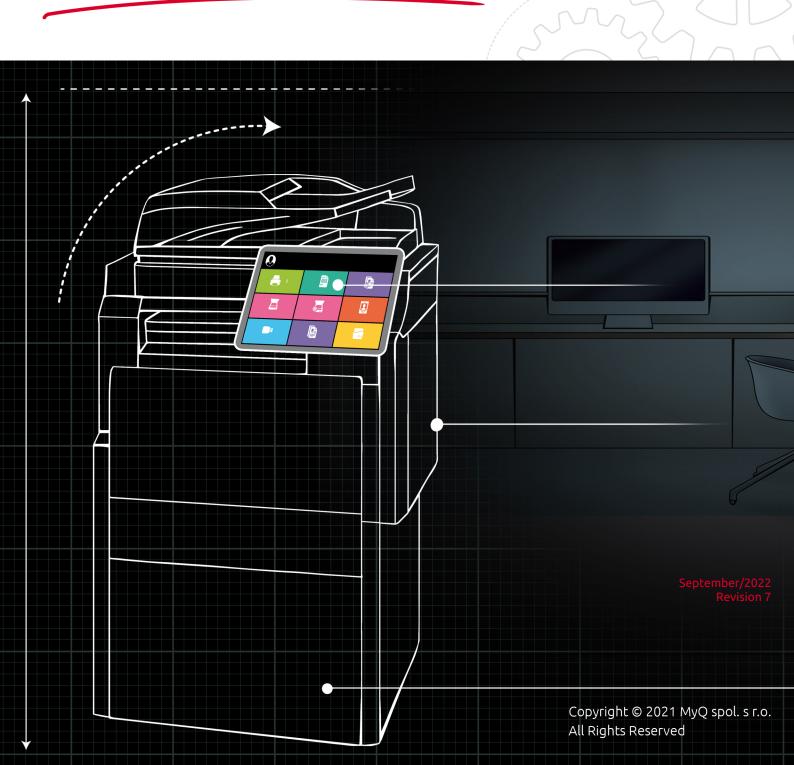
# Print Server

myq X



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#### MyQ Print Server 10.0 RTM

Check the below video with MyQ's CTO introducing the new MyQ X:

#### https://www.youtube.com/watch?v=R\_BfrqJkOOg

MyQ is a universal printing solution that provides a wide variety of services related to printing, copying, and scanning. All functions are integrated into a single unified system, which results in an easy and intuitive employment, with minimal requirements for installation and system administration.

The main areas of application of the MyQ solution are monitoring, reporting and administration of printing devices; print, copy, and scan management, extended access to printing services via the MyQ Mobile application and the MyQ Web Interface, and simplified operation of printing devices via MyQ Embedded terminals.

Here you can find all the information needed to install, configure, upgrade, and uninstall the MyQ® print management system, how to set up the system through the MyQ Web Administrator Interface, activate licenses, and set print ports. Furthermore, you can learn how to maintain the MyQ® system, acquire its statistical data, and monitor the print environment.

All changes compared to the previous version are listed in the change	e log.
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(i) The guide is also available in **PDF**, along with guides for older supported versions.

# 1 Basic Information

Here you can find all the information needed to install, configure, upgrade, and uninstall the MyQ® print management system. It describes how to set up the system through the MyQ web administrator interface, activate licenses, and set print port. Furthermore, it shows how to maintain the MyQ® system, acquire its statistical data, and monitor the print environment.

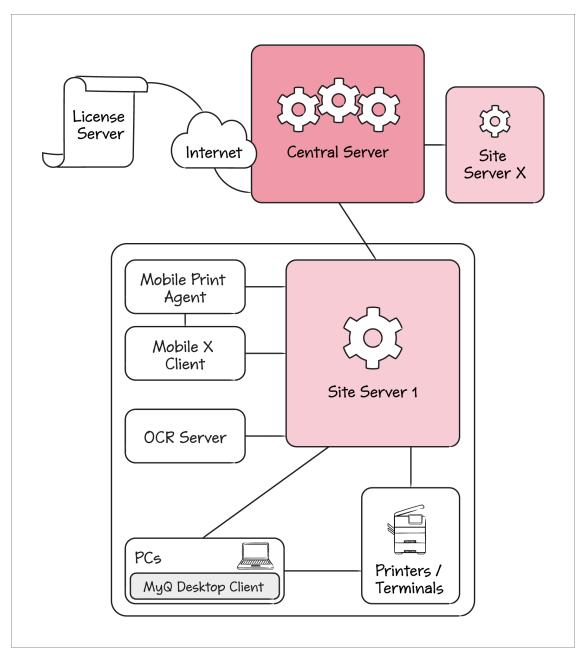
MyQ is a universal printing solution that provides a wide variety of services related to printing, copying, and scanning. All functions are integrated into a single unified system, which results in easy and intuitive employment with minimal requirements for installation and system administration.

The main areas of application of the MyQ solution are monitoring, reporting and administration of printing devices - print, copy, and scan management- extended to printing services via the MyQ Mobile application, and the MyQ web interface and simplified operation of printing devices via MyQ Embedded terminals.

## 1.1 MyQ Architecture

### 1.1.1 MyQ Servers and applications

MyQ is a distributed system made of servers and client applications. The image below depicts a high level overview of all the components and main communication channels. Each component usually runs on its own computer be it a server, a PC, a mobile phone, or a printer.



The **Central Server** is responsible for **Site Servers** configuration, reporting, and licensing. Site Servers still need additional individual configuration.

A **Site Server** is responsible for print job spooling, scan delivering, user interaction with printers, printer monitoring, and many more.

**MyQ Desktop Client** is an additional application running on users PCs. It offers user authentication and identification, project and cost-center selection, local printers monitoring (mostly USB), client spooling and many other features.

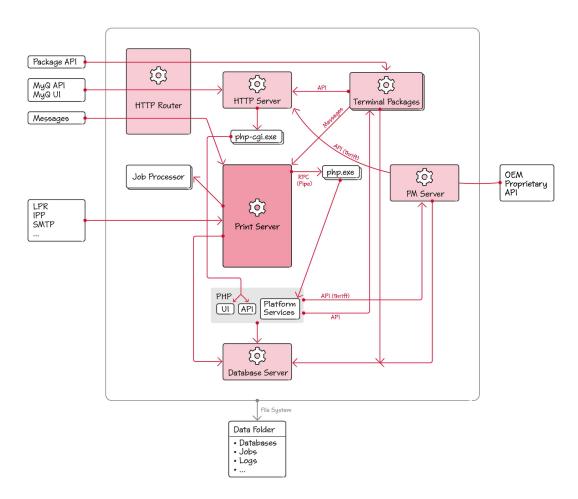
The **OCR Server** is used for Optical Character Recognition on scan jobs. An OCR server uses lots of resources, so it usually runs on its own machine.

The **MyQ X Mobile Client** is used for native printing on iOS, macOS, and Android devices.

**Mobile Print Agent** gives users access to printers via AirPrint (for iOS), and Mopria Print Service (for Android smart phones or tablets). It usually runs on its own machine with access to a Wi-Fi network where mobile devices can discover it.

### 1.1.2 Print Server from the OS process perspective

In the image below, you can see what OS processes are running on a Print Server, and what the main communication channels are.



The heart of the system is the **Print Server**. It's based on the WSF Platform – MyQ's platform for network services development. MyQ specific logic is implemented as Platform services, which are packaged in **plugin\*.dll** files. These plugins are written in C++ and a few of them also in C#. WSF Platform also supports services implemented in PHP. PHP doesn't support DLLs, so the platform services implemented in PHP are invoked via a set of **php.exe** workers.

The **Print Server** also manages a set of **Job Processor** workers which are used for job parsing. The **Job Processor** is running as a process and not as a part of the **Print Server**, to avoid its failure in case of the **Job Processor's** failure.

As a network server, **Print Server Service** is responsible for receiving print jobs via LPR, IPP, and other protocols. It also handles Messages, which is our pushnotifications engine. Messages are used to notify clients about events in the system.

**Apache** is an HTTP server for our Web UI and MyQ REST API. Both applications are implemented in PHP. Apache is maintaining a set of **php-cgi.exe** workers to handle execution.

**HTTP Router** is our reverse proxy through which all incoming HTTP based traffic flows. It's main functionality is TLS termination.

**Terminal Packages** implement the embedded terminal for a specific vendor. They expose their own API used by the printers.

**PM Server** is a component created by Kyocera. It provides API to configure Kyocera devices and to install the embedded terminal application. PM Server uses the Thrift technology to implement its API. MyQ is also providing part of its API via Thrift, so PM Server can access it.

Many of the components use the **Database Server** to store data. Furthermore, many of the components including Firebird, store their data in the **MyQ Data Folder** which is located by default in *C:\ProgramData\MyQ*. In production, this folder is typically located on a network drive.

Friendly name	Executable name	Alternative names
HTTP Router	traefik.exe	Traefik
HTTP Server	httpd.exe	Apache
Database Server	firebird.exe	Firebird
Print Server	myq.exe	
Kyocera Provider	knum.server.exe	PM Server
*Terminals	MyQ*Terminal.exe	Terminal Package
Job Processor	MyQJobProcessor.exe	

#### **Executable names**

\*used for vendor name

# 2 System Requirements

The operating system and other software require their own additional system resources. The system requirements described below are only for MyQ solution.

#### MyQ Print Server - Standalone mode

MyQ Print Server HW requirements up to 600 devices:

	1-10 devices	11-100 devices	101-300 devices	301-600 devices
CPU*	3	4	6	8
RAM	6GB	8GB	12GB	14GB
Storage space	30GB	33GB - 350 GB	380GB - 1TB	1,4TB - 2TB

\*Credit/Quota needs + 1 CPU.

CPU = number of virtual CPUs with frequency 3,5GHz (calculated with AMD Ryzen Threadripper 1920X 3,5GHz).

#### Valid for a typical use case:

- Print job spooling via Windows spooler or directly to MyQ print queue
- Integrated Firebird database installed automatically
- Activated Job Parser
- Activated Job Archiving
- High number of Office documents printed via email/web/mobile
- Use of MyQ Desktop Client or
  - Use of MyQ Smart Job Manager
  - Use of MyQ Smart Print Services
- Watermarks used in queues
- Heavy usage of MyQ API
- 170 users per device (up to 100 000 users total)
- Heavy printing
- 30% active user sessions at once
- Embedded terminal installed on all devices

#### **Recommendations:**

• Install Windows updates out of working hours.

#### MyQ Print Server - Site mode (Central Server & Site Servers architecture)

Site servers HW requirements up to 30 000 devices:

	1-10 devices	11-100 devices	101-300 devices	301-600 devices	601 - 30 000 devices
СРИ	5	6	8	10	10
RAM	6GB	8GB	12GB	14GB	14GB
Minimum number of servers	1x Central server 1x Site server	1x Central server 1x Site server	1x Central server 1x Site server	1x Central server 1x Site server	1x Central server More Site servers with max 600 devices each
Storage space	30GB	33GB - 350GB	380GB - 1TB	1,4T - 2TB	2TB per 600 devices

CPU = number of virtual CPUs with frequency 3,5 GHz (calculated with AMD Ryzen Threadripper 1920X 3,5GHz).

For the **MyQ Central Server** HW specification, check the MyQ Central Server guide.

#### Valid for a typical use case:

- Print job spooling via Windows spooler or directly to MyQ print queue
- Integrated Firebird database installed automatically
- Activated Job Parser
- Activated Credit Accounting
- Activated Quota
- Activated Job Archiving
- High number of Office documents printed via email/web/mobile
- Use of MyQ Desktop Client or
  - Use of MyQ Smart Job Manager
  - Use of MyQ Smart Print Services
- Watermarks used in queues
- Heavy usage of MyQ API
- 170 users per device (up to 100 000 users total)
- Heavy printing
- 30% active user sessions at once
- Embedded terminal installed on all devices
- User synchronization from Central Server
- Data replication to Central Server

#### **Recommendations:**

• Install Windows updates out of working hours.

#### Storage:

The MyQ Print Server installation files are approximately 700MB.

The annual printing volume for 1 printer is approximately 10,000 jobs; it is possible to multiply this value for the particular number of printers.

MyQ data folder (jobs, main database, and log database increasing):	
---	--

10k jobs	100k jobs	1M jobs
35GB	300GB	3,5TB

Counted for jobs with 2,9MB size.

By default, jobs are deleted every 7 days.

The Job archiving feature needs additional free space in data storage due to used configuration.

A dedicated disk for MyQ Data storage (jobs, main database and log database) is recommended.

During upgrades of the MyQ Print Server system, the actual size of the MyQ installation on the server (including MyQ database) may temporarily grow up to four times.

The size of the MyQ database depends on the size and complexity of your printing environment (number of users, printing devices, sent jobs etc.).

#### Storage performance:

- minimum 100 IOPS required.
- RAID data storage supported.
- for systems with a large number of direct queues, it is strongly recommended using SSD.

#### MyQ Desktop Client:

If there are 100 - 2000 or more client computers using MyQ Desktop Client (or MyQ Smart Job Manager and/or MyQ Smart Print Services), the MyQ Print Server requires 2+ CPU cores just for the MyQ Desktop Client operations. The recommended configuration may vary according to the system load.

#### Recommended no. of users and groups:

**Users**: up to 100,000 (30,000 - 60,000 per one synchronizing line). Depends on the length and number of fields for synchronization.

**Groups**: up to 40,000/10 tree levels (group in group in group). Each user can be in up to 50 groups.

#### **Operating System:**

Windows Server 2012/2012 R2/2016/2019/2022, with all the latest updates; only 64bit OS supported.

Windows 8.1/10/11\*\*, with all the latest updates; only 64bit OS supported. Be aware of the connection limit of up to 20 clients (Windows EULA).

Additional software required:

- Microsoft .NET Framework 4.7.2 Full Version or higher
- For Windows Server 2022, it is necessary to install Server Core App Compatibility Feature on Demand (FOD) [it is needed for .NET 4.7.2 apps, .NET 5.0 apps work without it] (https://docs.microsoft.com/en-us/windows-server/get-started/server-coreapp-compatibility-feature-on-demand ) It can be installed from PowerShell as a Windows Update using this command: "Add-WindowsCapability -Online -Name ServerCore.AppCompatibility~~~0.0.1.0" and then restart.

\*\*For the trouble-free running of the machine, it is strongly recommended using a Windows Server OS.

#### Web browser:

- Microsoft Edge 91 or higher (Recommended)
- Google Chrome 91 or higher
- Mozilla Firefox 91 or higher
- Apple Safari 15 or higher
- Opera 82 or higher
- Internet Explorer and MS Edge Legacy are no longer supported
- WebSocket notifications only work with valid certificates in some browsers. Some MyQ features may have limited functionality without them, and it's recommended to have them valid and installed on all client devices.

#### Security:

DigiCert Global Root CA certificate (required for Installation Key license activation) → https://www.digicert.com/kb/digicert-root-certificates.htm#roots. It should be included by default in the latest updated Windows versions. Supported Public Key Infrastructure for asymmetric cryptography.

#### MyQ installation in Private cloud:

MyQ can also be installed in Private Cloud. For requirements and further details, see Installation in Private Cloud.

#### Limitations:

- To make sure that the MyQ system runs smoothly, you need to set an exception for MyQ in your antivirus setup.
- MyQ should not be installed on a Domain Controller.

# 2.1 Installed parts and possible conflicts

The installation file contains, besides the MyQ system itself, installations of a Firebird database server, an Apache web server, PHP runtime, and PM server. With the Scan Management function activated, the MyQ system uses its own SMTP server.

If there are other systems that run on the same server and use databases, web interfaces, PHP, or email servers, there is a risk of system conflicts. These conflicts can cause malfunctions on one or more of the systems. Therefore, we recommend you install MyQ on a server with a clean OS installation.

MyQ fully supports installation on virtual servers.

### 2.2 Main Communication Ports

If you need to adjust your firewall, it is recommended to allow MyQ processes in the firewall and not particular ports. If you allow particular ports, MyQ may stop working if:

- 1. you change port settings in MyQ, or
- 2. you upgrade to a newer version and the port specification has changed.

Terminal packages may use additional ports. Check the particular terminal package specification for details.

Make sure to create an exception that allows ICMP Echo Requests/Replies (Ping) through your Windows Firewall, as MyQ uses it by default to check the printers' status.

### 2.2.1 Incoming Ports

The server is listening on the following ports (does not include private ports):

Protoc ol	Port	Configurable	Description
ТСР	21	Yes (WebUI)	FTP protocol for receiving scans. The server runs only in passive mode and each data connection runs over a dynamic port in the 49152 - 65535 range.
ТСР	25	Yes (WebUI)	SMTP protocol for Scan Management function, receiving email notifications from printers, and for receiving emails with jobs.
ТСР	587	Yes (WebUI)	SMTPS protocol. Used in the same scenarios as SMTP.

Protoc ol	Port	Configurable	Description
ТСР	515	Yes (WebUI)	LPR protocol for print job transmission to the MyQ server.
ТСР	910 0	Yes (WebUI)	RAW protocol for print job transmission to the MyQ server.
ТСР	863 1	Yes (WebUI)	IPPS protocol for print job transmission to the MyQ server.
ТСР	863 2	Yes (WebUI)	AirPrint/MOPRIA protocol for print job transmission to the MyQ server.
ТСР	809 0	Yes (Easy Config)	HTTP protocol for accessing MyQ web interface, communication with Embedded terminals and job roaming among MyQ servers.
UDP	111 12	No	Communication with MDC (Former SJM and SPS). The answer is returned on a dynamic port in the 49152 - 65535 range.
UDP	111 08	No	Communication with old terminals (7.6 and older).
ТСР	808 0	Yes (Easy Config)	Upgrade only. Obsolete HTTP protocol for accessing MyQ web interface, communication with Embedded terminals and job roaming among MyQ servers. Can be removed in Easy Config and only 8090 can be used.

#### PM Server:

Protoc ol	Port	Configurabl e	Description
ТСР	631	No	Port for Mobile print via IPP.
ТСР	717	No	Port for Mobile print via IPPS.

Protoc ol	Port	Configurabl e	Description
ТСР	909 0, 909 1	No	Necessary for remote setup of Kyocera embedded terminals.
ТСР	909 2	No	Felica reader
ТСР	909 3	Yes (WebUI)	Authentication / Authorization.
ТСР	909 4	No	Driver access, mobile access.
ТСР	909 5	Yes (WebUI)	Spooler service.
ТСР	909 7	Yes (WebUI)	Log information event.
ТСР	909 8	Yes (WebUI)	Job status event.
ТСР	909 9	Yes (WebUI)	Thrift access.
ТСР	910 1	No	User session service.

# 2.2.2 Outgoing Ports

The server is connecting to the following ports (does not include localhost connections):

Protoco l	Port	Description
ТСР	443	<ul> <li>IPPS protocol for print job transmission from MyQ to printing devices.</li> <li>License activation server. The MyQ license server address is license2.myq.cz. The old MyQ license server address is license.myq.cz.</li> <li>Other enabled services from Settings → External Systems (Microsoft Universal Print, One Drive,)</li> </ul>
ТСР	515	LPR protocol for print job transmission from MyQ to printing devices.
ТСР	631	IPP protocol for print job transmission from MyQ to printing devices.
ТСР	910 0	Raw protocol for print job transmission from MyQ to printing devices.
ТСР	100 40	MPP/MPPS protocol for print job transmission from MyQ to printing devices.
UDP	111 08	Communication with old terminals (7.6 and older).

You can also setup additional services that require further configuration and their port will often differ:

Protoco l	Port	Default	Description
ТСР	Cust om	110	Connection to email server via POP3 protocol for receiving jobs via email.
ТСР	Cust om	143/993	Connection to email server via IMAP/IMAPS protocol for receiving jobs via email.
ТСР	Cust om	25/467/58 7	Connection to SMTP server for sending outgoing emails from MyQ.
ТСР	Cust om	386/636/1 812	Connection to Authentication server(s) (LDAP, Radius,) for user authentication/synchronization.

Protoco l	Port	Default	Description
ТСР	Cust om	8093	Connection to MyQ Central Server.
UDP	Cust om	161	SNMP protocol for communication with printing devices. Answer from printer is returned on a dynamic port.
ТСР	Cust om	-	Connection to External credit account.

MyQ can connect to dynamic ports in the following contexts:

Protoc ol	Port	Description
UDP	Dynami c	Communication with MDC (Former SJM and SPS). The port range is 49152 - 65535.

# 2.2.3 Embedded Packages Ports

	Куосега		
If SSL is on, it's used for the following events:	Events are notified internally to the embedded application. No network communication is used.		
MyQ Server (Protocol: Port - Description)	<ul> <li>HTTP or HTTPS: 8090 (default) - it depends on the configuration in MyQ Easy Config.</li> <li>SMTP: 25 (default) - it depends on the port configured in MyQ, Settings, Network, SMTP. Used for Panel Scan to email)</li> </ul>		

Package (Protocol: Port - Description)	HTTP: (IN) 8081 to 8089 (default) - It depends on the port selected during the installation of the package on the server. This is used only in localhost.
,	TCP: (OUT) 11108 - TCP link to device. Send request to Printers.
	<b>Kyocera 8.0+</b> A random TCP port is opened on each package service start/ restart, to be used for receiving scans over FTP. The package then tries to configure the Windows firewall to open the port for outside connections.
Printer (Protocol: Port	TCP: (IN/OUT) 11108 - TCP link to device. Usage: Receive requests from Package.
- Description)	TCP: (IN) 10040 - Usage: Use printer as a proxy for TCP communication.
	UDP: (IN) 11108 in - UDP Link to device. Multipurpose. It dispatches all the received UDP packages. Usage: Receive requests to get local jobs.
	UDP: (OUT) 11108 - Send broadcast to printers. GetJobs (Local Spooling)
	TCP: (IN/OUT_ 10030 - TCP link to device. Usage: Receive requests or responses from other devices.
	TCP: (IN) 10010 - Usage: Receive raw data of print jobs for local direct print job.
	TCP: (IN) 10011 - Usage: Receive raw data of print jobs for local hold job.
	TCP: (IN) 10013 - Usage: Receive raw data of print jobs for local delegate job.
	TCP: (IN) 10020 - Usage: Receive raw data of print jobs for local LPR jobs.
	TCP: (IN) 10012 - Usage: Receive raw data of print jobs for local pull print jobs (Pull Print).
	<b>Note</b> : Other ports used by the printer (common for all printers. Eg. 9100 for raw printing, etc.).
	НР

If SSL is on, it's used for the following events:	All types of events go through SSL		
MyQ Server (Protocol: Port - Description)	<ul> <li>HTTP or HTTPS: 8090 (default) - it depends on the configuration in MyQ Easy Config.</li> <li>SMTP: 25 (default) - it depends on the port configured in MyQ, Settings, Network, SMTP. Used for Panel Scan to email)</li> </ul>		
Package (Protocol: Port - Description)	HTTP: (IN) 8081 to 8089 (default) - It depends on the port selected during the installation of the package on the server. This is used only in localhost.		
Printer	(OUT) 57627 - non SSL		
(Protocol: Port - Description)	(OUT) 7627 - SSL		
Toshiba			
If SSL is on, it's used for the following events:	All types of events go through SSL		
MyQ Server (Protocol: Port - Description)	<ul> <li>HTTP or HTTPS: 8090 (default) - it depends on the configuration in MyQ Easy Config.</li> <li>SMTP: 25 (default) - it depends on the port configured in MyQ, Settings, Network, SMTP. Used for Panel Scan to email)</li> </ul>		
Package (Protocol: Port - Description)	HTTP: (IN) 8081 to 8089 (default) - It depends on the port selected during the installation of the package on the server. This is used only in localhost.		
Printer	(OUT) 49629, 50083 - non SSL		
(Protocol: Port - Description)	(OUT) 49630, 50083 - SSL		
Хегох			

If SSL is on, it's used for the following events:	Always SSL			
MyQ Server (Protocol: Port - Description)	<ul> <li>HTTP or HTTPS: 8090 (default) - it depends on the configuration in MyQ Easy Config.</li> <li>SMTP: 25 (default) - it depends on the port configured in MyQ, Settings, Network, SMTP. Used for Panel Scan to email)</li> </ul>			
Package (Protocol: Port - Description)	HTTP: (IN) 8081 to 8089 (default) - It depends on the port selected during the installation of the package on the server. This is used only in localhost.			
Printer	HTTP: (OUT) 80 - Used to access to Xerox EIP			
(Protocol: Port - Description)	SNMP: (OUT) 161 - Used to set up the configuration of the printer.			
	Canon			
If SSL is on, it's used for the following events:	Events are notified internally to the embedded application. No network communication is used.			
MyQ Server (Protocol: Port - Description)	<ul> <li>HTTP or HTTPS: 8090 (default) - it depends on the configuration in MyQ Easy Config.</li> <li>SMTP: 25 (default) - it depends on the port configured in MyQ, Settings, Network, SMTP. Used for Panel Scan to email)</li> </ul>			

Printer (Protocol: Port - Description)	<ul> <li>TCP: 11108 - TCP link to device. Usage: Receive requests from Package.</li> <li>TCP: 10040 - Usage: Use printer as a proxy for TCP communication.</li> <li>Note: Other ports used by the printer (common for all printers. Eg 9100 for raw printing, etc.).</li> </ul>	
Ricoh		
If SSL is on, it's used for the following events:	Events are notified internally to the embedded application. No network communication is used.	

Printer	TCP: 49109 - sends live application logs from the device.			
(Protocol: Port - Description)	TCP: 11108 - TCP link to device. Usage: Receive requests from Package.			
	TCP: 10040 - Usage: Use printer as a proxy for TCP communication.			
	UDP: 11108 in - UDP Link to device. Multipurpose. It dispatche all the received UDP packages. Usage: Receive requests to get local jobs.			
	UDP: 11108 out - Send broadcast to printers. GetJobs (Local Spooling)			
	TCP: 10030 - TCP link to device. Usage: Receive requests or responses from other devices.			
	TCP: 10010 - Usage: Receive raw data of print jobs for local direct print job.			
	TCP: 10011 - Usage: Receive raw data of print jobs for local hold job.			
	TCP: 10013 - Usage: Receive raw data of print jobs for local delegate job.			
	TCP: 10020 - Usage: Receive raw data of print jobs for local LPR jobs.			
	TCP: 10012 - Usage: Receive raw data of print jobs for local pull print jobs (Pull Print).			
	<b>Note</b> : Other ports used by the printer (common for all printers. Eg 9100 for raw printing, etc.).			
Sharp				
If SSL is on, it's used for the following events:	All types of events go through SSL.			
MyQ Server (Protocol: Port - Description)	<ul> <li>HTTP or HTTPS: 8090 (default) - it depends on the configuration in MyQ Easy Config.</li> <li>SMTP: 25 (default) - it depends on the port configured in MyQ, Settings, Network, SMTP. Used for Panel Scan to email)</li> </ul>			

Package (Protocol: Port - Description)	HTTP: (IN) 8081 to 8089 (default) - It depends on the port selected during the installation of the package on the server. This is used only in localhost.		
Printer (Protocol: Port - Description)	Any port from the <0-65535> range. Default: • (OUT) 10080 - non SSL • (OUT) 10443 - SSL		
Epson			
If SSL is on, it's used for the following events:	All types of events go through SSL.		
MyQ Server (Protocol: Port - Description)	<ul> <li>HTTP or HTTPS: 8090 (default) - it depends on the configuration in MyQ Easy Config.</li> <li>SMTP: 25 (default) - it depends on the port configured in MyQ, Settings, Network, SMTP. Used for Panel Scan to email)</li> </ul>		
Package (Protocol: Port - Description)	HTTP: (IN) 8081 to 8089 (default) - It depends on the port selected during the installation of the package on the server. This is used only in localhost.		
Printer (Protocol: Port - Description)	<ul> <li>(OUT) 80 - non SSL</li> <li>(OUT) 443 - SSL</li> </ul>		

(i) Some of the above mentioned ports can be changed in case of conflicts with other applications.

Conflicts of the communication ports with other software will be revealed by the **Windows socket error 10048** error message.

### 2.3 Windows Server Performance Monitor

You can use Windows Server Performance Monitor to gather system performance information that can help MyQ Support to troubleshoot MyQ server performance issues.

The following procedures describe how to configure Performance Monitor to log processor, disk, and memory performance information, respectively.

#### Enabling performance counters for processor, disk, and memory objects:

- Connect to the MyQ server, using an account with administrator rights.
- On the Windows taskbar, select **Start > Run**.
- In the **Run** dialog box, type perfmon, and then click **OK**.
- In Performance Monitor:
  - In the panel on the left, expand **Data Collector Sets**.
  - Right-click User Defined, and then select New > Data Collector Set in the contextual menu.
  - In the first **Create new Data Collector Set** wizard dialog box:
    - In the Name box, type MyQPerformanceSet.
    - Select Create manually (Advanced).
    - Click Next.
  - In the second Create new Data Collector Set wizard dialog box:
    - Select Create data logs.
    - Select the **Performance counter** checkbox.
    - Click Next.
  - In the third **Create new Data Collector Set** wizard dialog box:
    - Click Add.
    - In the dialog box that appears, in the Available counters list, successively select the following performance counters, clicking Add for each of them:
      - Memory
      - PhysicalDisk
      - Processor
    - Click OK.
    - Click Finish.

ailable counters	Added counters				
elect counters from computer: <local computer=""> Browse   Physical Network Interface Card Activity     PhysicalDisk     Power Meter     PowerShell Workflow     Print Queue     Process     Processor     Processor information     stances of selected object:   Total   :All instances&gt;</local>	Counter Memory * PhysicalDisk * Processor *	Parent	Inst 	Computer	- ^
Searce Add >	Remove <<				

When you are ready to start gathering performance information, in the main panel on the right, right-click **MyQPerformanceSet**, and then select **Start** in the contextual menu.

When you are ready to stop gathering performance information, in the main panel on the right, right-click **MyQPerformanceSet**, and then select **Stop** in the contextual menu.

No. Performance Monitor		
🔊 File Action View Window Help		
🗢 🔿 📶 🖾 🝳 🗟 🕅 🖿 🚵	•	
N Performance	Name	
V 🔂 Monitoring Tools	📧 DataCollector01	
Performance Monitor Performance Sets		
✓ I User Defined		
To MyQPerformanceSet		
Server Manager Performance Monitor		
> 📫 System		
📷 Event Trace Sessions		
Startup Event Trace Sessions		
✓ <sup>™</sup> Reports		
> 💽 User Defined		
> 💽 System		
	<	

To review the logged performance information, in Windows Explorer, locate and double-click the .blg file indicated in the **Output** column in **Performance Monitor**.

The **Performance Monitor** opens showing the collected data. Send the .blg file to MyQ Support.

# 3 Installation

This chapter shows you how to install the MyQ print management system. Prior to the installation, make sure that Microsoft .NET Framework 4.7.2 (Full version) is already installed on your computer. If not, install it using the steps in the following section.

# 3.1 Installing Microsoft .NET Framework 4.7.2 (Full version)

- Download the Microsoft .NET Framework 4.7.2 (Full version) installation file: (https://support.microsoft.com/en-us/help/4054531/microsoft-netframework-4-7-2-web-installer-for-windows)
- 2. Open the downloaded executable file.
- 3. Follow the directions of the installation wizard.

### 3.2 Installing MyQ®

- 1. Download the latest available version of MyQ from the MyQ Community portal.
- 2. Run the executable file. The **Select Setup Language** dialog box appears.
- 3. Select your language and click **OK**. The Select Destination Location dialog box appears.
- 4. Select the folder where you wish to install MyQ. The default path is: *C*:\*Program Files*\*MyQ*\.
- 5. Click **Install**. MyQ is installed on the server.
- 6. Click **Finish**. Depending on the OS settings on the server, you might be asked to restart the computer. If you are asked to restart the computer, you need to do so in order to finish the installation. After the restart, the MyQ Easy Config application opens and the MyQ database is upgraded. If not, you can select to directly run the MyQ Easy Config application by keeping the **Finish installation in MyQ Easy Config** option selected.

# 3.3 Installation in Private Cloud

MyQ Server can be installed and run, besides on-premises servers, also on an Azure Virtual Machine, with a VPN tunnel connecting the physical network and Azure's virtual network.

#### **Environment Requirements:**

- The minimum recommended virtual machine is B4ms, with a dedicated (non system disk) standard HDD.
  - The recommended CPU, RAM and HDD resources are the same as a standard installation and can be found in system requirements.
- VPN tunnel (100mbps line is recommended) connecting the physical network and Azure's virtual network where the MyQ Server is installed.
- Outgoing communication on ports used by MyQ must be allowed on Azure's Network security group. See main communication ports for a full list.

- The geolocation of the cloud server should be as physically close as possible.
- The Ping answer from printers to the cloud server should be within 750 ms (max 1 second, can be adjusted in config.ini)
- (i) For more information about Azure Extend an on-premises network using VPN, see: https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/ hybrid-networking/vpn#architecture

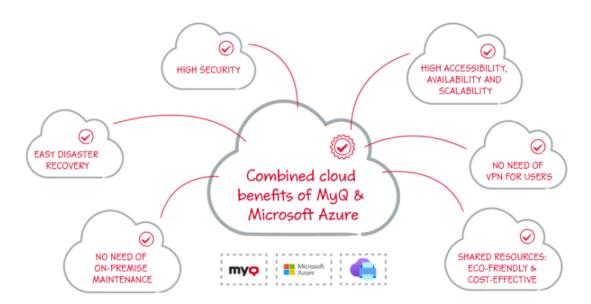
Once you set up the Azure virtual environment, follow the Installation instructions to install MyQ.

#### About MyQ in Private Cloud

Customers using Microsoft 365 as a private cloud hosting their internal systems can add MyQ to the list of IT services they no longer need to have installed on an onpremises server.

Part of the leased private cloud space can be dedicated to MyQ server(s), and MyQ running in Azure can make use of Azure Active Directories.

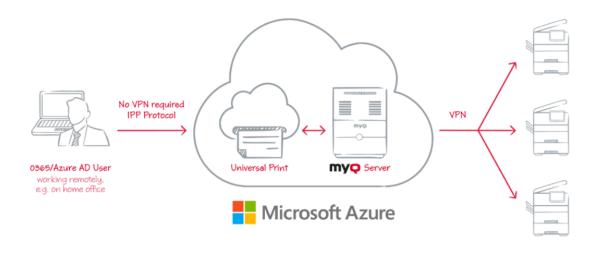
The single sign-on feature already used by users to access applications in the Microsoft cloud can also cover cloud printing with MyQ, without the need to use a VPN connection.



MS Universal Print is also fully integrated in MyQ, offering mobility, quick printer discovery, and no need for a VPN connection.

What is more, MyQ's Universal Print connector can work with older devices, so there's no need to invest into upgrading your fleet with more recent models which would natively support Universal Print.

#### Installation



A VPN tunnel connecting the physical network and Azure's virtual network is also required when using Microsoft Universal Print. Thanks to this VPN tunnel, there is no need for a VPN connection from the client's side to the MyQ Server.

## 4 MyQ Easy Config

This topic introduces the **MyQ Easy Config** application and briefly describes its main features. Furthermore, it guides you through the following basic procedures:

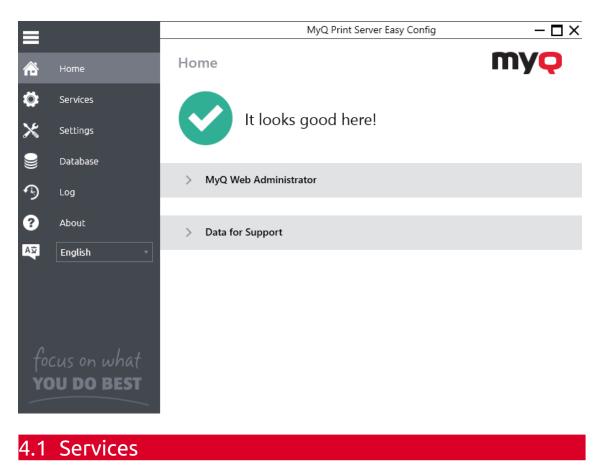
- how to manage MyQ services
- how to change MyQ passwords
- how to relocate you Data and Jobs folders
- how to encrypt, back up and restore your MyQ database
- how to change MyQ Web server ports
- how to clean up your Cache and Temp folders

The MyQ Easy Config application is the basic environment for the setup of essential parts of the MyQ server, such as the MyQ database.

It automatically opens if you keep the **Finish installation in MyQ® Easy Config** option selected during the installation of the server. Otherwise, you can find it on the Apps screen in Windows 8.1+, Windows Server 2012 and newer. After you open the application, you see its menu on the left side. From this menu, you can access the following settings:

- On the **Home** tab, you can quickly change the default password of the Server Administrator account, and generate data for support. You can also be redirected to the MyQ Web Administrator Interface to finish the server setup.
- On the Services tab, you can view and control the MyQ services.
- On the **Settings** tab, you can modify the Windows Services, Server administrator, and Database Administrator accounts, change file paths of the MyQ system data and jobs files, change the port configuration of the MyQ server, and clean up your Cache and Temp folders.
- On the **Database** tab, you can view information about the Main and Log Databases, as well as encrypt/decrypt, backup, and restore your database.
- On the **Log** tab, you can overview all the operations executed by the MyQ system.
- On the **About** tab, you can view information regarding the current version of MyQ.
- Lastly, you can select the MyQ Easy Config display language from the dropdown list.

If there are no issues, the "It looks good here!" message is displayed on the Home tab:



On the **Services** tab you can stop, start and restart the services of the MyQ server.

			MyQ Print Server Easy Config	- □ ×
— ₩	Home	Services		myç
۵	Services			
≍	Settings			Start All Stop All Restart All
	Database	HTTP Router		RUNNING
Э •	Log	HTTP Server		RUNNING
?	About	$\bigcirc$		
A T	English •	Database Server		RUNNING
		Print Server		RUNNING
£	cus on what	PM Server		RUNNING
	U DO BEST			

### 4.2 Passwords

Once you open the MyQ Easy Config application for the first time, you should change the Server Administrator password, which is the password for accessing the MyQ web administrator interface.

(i) The MyQ web administrator interface access user name is *\*admin* and its default password is *1234*.

#### Changing the password on the Home tab

The first time you open the application, on the **Home** tab, you can see the **Server Administrator Account** section. To change the password, type the new password, confirm the password, and then click **Save**.

≡		MyQ Print Server Eas	y Config – 🗖 🗙
ᢙ	Home	Home	myq
۵	Services	<ul> <li>Server Administrator Account</li> </ul>	^
≍	Settings	Change the default password	
	Database	Username:	
Ð	Log	*admin	
		Password:	
?	About	••••	
Aż	English -	Confirm password:	=
		••••	
		Save	
foc	cus on what	> MyQ Web Administrator	
	U DO BEST		
-		> Data for Support	

After you change the password for the first time, its initial setup section disappears from the Home tab.

#### Changing passwords on the Settings tab

As soon as you replace the default password, the section disappears from the **Home** tab and the password can no longer be changed there.

It can be changed at any time on the **Settings** tab under the **Server Administrator Account** section.

You can also change the database administrator's account password under the **Database Administrator Password** section.

The MyQ database access user name is SYSDBA and its default password is masterkey.

### 4.2.1 Unlocking the MyQ Administrator account

After 5 consecutive failed login attempts to the MyQ administrator account, the account is locked.

The admin can see a warning that the \*admin account is locked, and unlock it, in the **Server Administrator Account** section on the **Settings** tab. Once they click **Unlock**, the account is unlocked.

### 4.3 MyQ Windows Services Account

MyQ Windows Services run, by default, under the *Local System* account, meaning the account that was used during the installation.

This can be changed in the **Settings** tab, in the **Windows Services Account** section:

- Under Log on services as, select Custom account.
- Click on Browse, select the user account to be used for Windows services and click OK. The selected user account should have "Local administrator" rights or be a member of the Local Administrators Group. It should also already have rights to "Log on as service".
- Type the account's password and then confirm it in the next field.
- Click Save. MyQ Services are automatically stopped and restarted.
   MyQ Print Server Easy Config
   Settings

ᢙ	Home	Settings	myq	
۵	Services	V Windows Services Account	LocalSystem	^
×	Settings	Log on services as:		
	Database	O Local System account		≡
Ð	Log	Custom account     Account:		
?	About	Browse The account must have the "Log on as a service" user right.		
AŻ	English •	Password:		
		Confirm password:		
foc	us on what	Save		
	U DO BEST	> Database Administrator Password		~

• To change back to the default account, select **Local System account**, and click **Save**. MyQ Services are automatically stopped and restarted.

### 4.4 Data and Jobs Folders

On the **Settings** tab, you can see the folder locations of MyQ database and MyQ print jobs.

The default folders are:

*C*:\*ProgramData*\*MyQ*\ for the database, and *C*:\*ProgramData*\*MyQ*\*Jobs* for the print jobs.

Under normal circumstances, there is no need to change these locations. In case you have to do it, for example when there is not enough space on the system disk, follow the instructions below:

- 1. On the **Settings** tab, in the respective section, click **Change Location**. The **Change folder location** dialog box appears.
- 2. In the dialog box, under **New folder**, enter the path to the new folder or click the browser icon and find the folder location.

C:\ProgramData\MyQ\	Select
Free space: 14.46 GB Total space: 24.66 GB	

3. Under **Change Operation**, select the required method of existing data relocation, and then click **Change location**. Keep in mind that the server needs to be stopped during the change. The folder is moved to the new location.

Change Operation	I				
<ul> <li>Change folder location and move all current files (Recommended)</li> <li>Change folder location without moving current files (Copy)</li> <li>Use the existing files in folder (Only for reconfiguration)</li> </ul>					
Warning: Server needs to be stopped during this operation					
	Change location	Cancel			

If you relocate your Data and Jobs folder to a network drive, be aware that Apache or Firebird service cannot access network drives created by the Administrator or other users. The network drive needs to be created by the "**nt authority\system**" user. You can do this using this guide: https://stackoverflow.com/questions/182750/map-a-network-drive-to-be-used-by-a-service/4763324#4763324 or it should work when you mount the drive on Windows startup.

## 4.5 Database Encryption and Backup and Restore

On the **Database** tab, you can check the main and log database's status and perform backup and recovery, and encryption. You can also see information about the current version of the database, available updates, and also a warning in case there is a need for an upgrade.

		MyQ Print Server Easy Config	- 🗆 ×
— ₼	Home	Database	ny <mark>q</mark>
۵	Services	✓ Main Database	ОК
×	Settings	Database version: 28.1.19	
	Database	No upgrade needed.	
Э	Log	Database Encryption: Off	
?	About	Certificate: CN=myq.local -	=
A	English •	Encrypt	
		Backup folder: <u>C:\ProgramData\MyQ\Backup</u> Backup Restore	
foc	us on what		
	U DO BEST	✓ Log Database	ОК
		Database version: 2.4.0	~

### 4.5.1 Backing up MyQ data

To back up your MyQ data:

- 1. Open the **Database** tab.
- 2. In the Main Database section, click Backup.
- Provide and confirm a password to protect the backup. If skipped, the backup will be created unprotected. Backup Data - X

Provide a password to	
Confirm the password	1:
•••••	
ОК	Cancel

4. A new backup file is created, called *database\_\*.zip*. The file contains the MyQ database and additional files with data used by the MyQ system, such as reports, certificates, or the *config.ini* file.

### 4.5.2 Restoring MyQ Data

To restore your MyQ data:

- 1. Open the **Database** tab.
- 2. In the **Main Database** section , click **Restore...** Select the *database\_\*.zip* file and click **Open**. If the backup is password protected, there is a prompt to provide the password. The database is restored and, if needed, upgraded as well.

🔄 🗇 🔻 🚺	« Local Disk (C:)	oen	🖌 🖒 🛛 Search Back	au	م
		icrup v	Jeanen back		-
Organize 🔻 New fo	older			III 👻 🔟	0
🔆 Favorites	Name	Date modified	Туре	Size	
	🔒 database_2020-07-01_11-14-54	7/1/2020 11:15 AM	Compressed (zipp	72,748 KB	
🌉 This PC	🜗 database_2020-07-01_12-09-40	7/1/2020 12:09 PM	Compressed (zipp	72,583 KB	
	database_2020-07-01_12-10-03	7/1/2020 12:10 PM	Compressed (zipp	72,583 KB	
📬 Network	🌗 database_2020-07-01_13-48-26	7/1/2020 1:48 PM	Compressed (zipp	72,632 KB	
	database_2020-07-01_14-42-13	7/1/2020 2:42 PM	Compressed (zipp	72,694 KB	
	database_2020-07-01_15-12-53	7/1/2020 3:13 PM	Compressed (zipp	72,730 KB	
	引 database_2020-07-02_09-30-17	7/2/2020 9:30 AM	Compressed (zipp	72,811 KB	
	database_2020-07-07_12-32-37	7/7/2020 12:32 PM	Compressed (zipp	73,318 KB	
	🜗 database_2020-07-07_13-45-36	7/7/2020 1:45 PM	Compressed (zipp	72,669 KB	
	File name: database 2020-07-01 11-14-54		V ZIP File (*.zi	ip)	~
			Open	Cancel	
	Backup Restore.				
		 re Data			
			^		
	Resto	re Data	^		
	Resto Done 7/13/2020 10:12:28 AM - Resto	re Data	^		
	Resto Done 7/13/2020 10:12:28 AM - Resto 7/13/2020 10:12:30 AM - Readi	re Data ring the database ng metadata file	~		
	Resto Done 7/13/2020 10:12:28 AM - Resto	re Data ring the database ng metadata file sing services			
	Resto Done 7/13/2020 10:12:28 AM - Resto 7/13/2020 10:12:30 AM - Readi 7/13/2020 10:12:30 AM - Stopp 7/13/2020 10:12:46 AM - Resto 7/13/2020 10:12:46 AM - Resto	re Data ring the database ng metadata file oing services ring up file ring the database file			
	Resto Done 7/13/2020 10:12:28 AM - Resto 7/13/2020 10:12:30 AM - Readi 7/13/2020 10:12:46 AM - Resto 7/13/2020 10:12:46 AM - Resto 7/13/2020 10:12:50 AM - Stopp 7/13/2020 10:12:50 AM - Stopp	re Data ring the database ng metadata file oing services ring up file ring the database file oing services			
	Resto Done 7/13/2020 10:12:28 AM - Resto 7/13/2020 10:12:30 AM - Readi 7/13/2020 10:12:30 AM - Stopp 7/13/2020 10:12:46 AM - Resto 7/13/2020 10:12:55 AM - Stopp 7/13/2020 10:12:55 AM - Cleari	re Data ring the database ng metadata file bing services ring up file ring the database file bing services ng cache folders	Ξ		
	Resto Done 7/13/2020 10:12:28 AM - Resto 7/13/2020 10:12:30 AM - Readi 7/13/2020 10:12:46 AM - Resto 7/13/2020 10:12:46 AM - Resto 7/13/2020 10:12:50 AM - Stopp 7/13/2020 10:12:50 AM - Stopp	re Data ring the database ng metadata file bing services ring up file ring the database file bing services ng cache folders	Ξ		
	Resto Done 7/13/2020 10:12:28 AM - Resto 7/13/2020 10:12:30 AM - Readi 7/13/2020 10:12:30 AM - Stopp 7/13/2020 10:12:46 AM - Resto 7/13/2020 10:12:50 AM - Stopp 7/13/2020 10:12:55 AM - Cleari 7/13/2020 10:12:55 AM - Cleari 7/13/2020 10:12:57 AM - Starti	re Data ring the database ng metadata file bing services ring up file ring the database file bing services ng cache folders	Ξ		

## 4.5.3 Encrypting the main database

For better security, you can encrypt the main database using a certificate. MyQ does not provide these certificates. You should install and use your own. The certificate used for the encryption needs to have the "Encrypting File System" Enhanced Key Usage (EKU) and it must be located in one of the following computer certificate stores:

- Personal
- Trusted Publishers

- Third-Party Root Certification Authorities
- Other people

Once installed, it will be visible in the **Certificate** drop-down.

		MyQ Print Server Easy Config	- 🗆
ᢙ	Home	Database	myq
Ö	Services	Main Database	ОК
≍	Settings	Database version: 27.6.16	
	Database	No upgrade needed.	
Ð	Log	Database Encryption: Off	
?	About	Certificate: CN=myq.local 🔹	
Aż	English •	Encrypt	

During the encryption, other services will not be available. A busy indicator will let you follow the encryption/decryption process:

**Encryption Process** 

Stopping services			^
7/1/2020 4:43:32 PM - St	opping serv	ices	
	Close		

After the encryption, the **Encrypt** button will change to **Decrypt** so you can reverse the action.

## 4.6 Changing MyQ Web server ports

On the **Settings** tab, under **Web Server**, you can change the port for the connection to the MyQ Web server:

• Port: communication port for the MyQ HTTP server; the default value is 8090.

You should enable **Allow unsecure communication** only in case of communication problems.

		MyQ Print Server Easy Config	- 🗆 ×
秴	Home	Settings	<b>IYQ</b>
٢	Services		^
≍	Settings	✓ Web Server	
	Database	Allow unsecure communication:	
Ð	Log	Enable only in case of communication problems.	
?	About	Port: 8090	
A	English •	Save	=
		> Data Folder 46.17%	
fa	cus on what		
	U DO BEST	> Jobs Folder 46,17%	•

## 4.7 Cleaning Cache and Temp folders

In the **Server Maintenance** section of the **Settings** tab, you can clean up your Cache and Temp folders. This might be necessary in cases when problems with the temporary files affect the MyQ system.

To delete the two folders, click **Start cleanup**.

≡		MyQ Print Server Easy Config —	1×
	Ноте	Settings MYQ	
<b>≎</b> ×	Services Settings	> Server Administrator Account	^
	Database	> Web Server	
Э	Log		
?	About	> Data Folder 46.17%	
A¥.	English •	> Jobs Folder 46.17%	=
		✓ Server Maintenance	
	cus on what <b>DU DO BEST</b>	Start Cleanup Cache and Temp folders will be deleted.	
			$\sim$

## 5 MyQ Web Interface

This topic describes the MyQ Web Interface where you manage most of MyQ functions. It shows you how to access the web interface and the two menus where you can access all settings and functions on the web interface: the Main menu, and the Settings menu. Furthermore, it describes the web interface's Home dashboard and shows you how to perform the initial MyQ setup. The last two sections introduce two MyQ logs: the MyQ Log and the MyQ Audit Log.

## 5.1 Accessing the MyQ Web Interface

To access the MyQ Web Interface, you need to open it in your web browser and log in as an administrator:

There are three ways to open the MyQ Web Interface:

 Open your web browser, and then enter the web address in the form: *https://\*MyQserver\*:8090*, where *MyQserver* represents the IP address or the host name of your MyQ server and *8090* is the default port for access to the server.

https://10.14.5.816:8090

- 2. Log on to the interface from the MyQ Easy Config **Home** tab, by clicking on the **MyQ Web Administrator** link in the **MyQ Web Administrator** section.
- 3. Open the MyQ Web Administrator application. You can find this application on the Apps screen in Windows 8.1+, Windows Server 2012 and newer.



### 5.2 Logging in as an administrator

Enter the Server administrator name (\**admin*) and the password that you have set in the MyQ Easy Config application, and then click **Log In**. If you have not changed the default password yet (not recommended), enter the default one: *1234*.

English (Ur	nited States)
*admin	
	Log In
	Lost PIN • Theme • MyQ 10.0
	Synchronize with the operating system
	✓ Light
	Dark

In the drop-down at the top of the login window, you can select your preferred language.

Before logging in, you can click **Theme** to choose the theme for the interface. The options are: *Synchronize with the operating system*, *Light*, *Dark*, *Enhanced accessibility*.

Click **Lost PIN** and you are taken to a window where you can either enter your email in order to receive a PIN reset code or if you already have the code, you can type it and reset your PIN.

		enter your email and the co
Email	in to you.	
		OR
have th	e PIN reset code	
Code		
_	Send	Cancel

## 5.3 Main menu and Settings menu

There are two menus where you can access all the features and settings of the MyQ server: the **Main** (MyQ) Menu and the **Settings** menu.

In this guide, all the tabs accessed from the Main menu, except for the Home screen and Settings menu, are called main tabs as opposed to settings tabs that are accessed from the Settings menu.

🛆 Home
Printers
🚡 Queues
Event History
S Users
Jobs
Quota Boosts
Projects
C Reports
Voucher Batches
🗟 Payments
💥 Settings
🖉 Log
Audit Log
System health check
⑦ Help
Administrator Log out

### 5.3.1 Main Menu

To open the **Main** menu, click the MyQ logo at the upper-left corner of the screen. From there, you can access the **Home dashboard**, the **Settings** menu and a number of tabs where you can manage and use MyQ functions.

### 5.3.2 Settings menu

To open the **Settings** menu, click **Settings** on the **Main** menu.

The tabs that are accessed from the Settings menu serve for the global setup of the MyQ server.

### 5.4 Home Dashboard

On the **Home** dashboard, you can perform the initial MyQ setup. After the setup, you can use the dashboard to directly access MyQ key features, to display statistics and to generate data for support.

ome				Add a new widget Theme •	C Refresh   😳 Generate data for support   L
D Printed pages (Last 24 hours)	○ 0 Number of users	O Number of printers	② 0 Uptime (hours)	▲ 138 Recent warnings (Last 24 hours)	
uick links		Printers with issues		Quick Setup Guide	
Jobs 🖨 Printers 🙁 Users 🕓 Reports   🔉 Settin	igs இ Log	The list	is empty	V Time zone - DONE Edit	
cense				→ License Enter license	
Version: 10.0 Show License page				Administrator email - DONE     Administrator email: test@email.com     Edit	
				Outgoing SMTP Server     Configure the outgoing SMTP server	
				→ Printers Discover printers   Add printers manually	
				→ Queues Add printer queues	
				→ Users Add users manually   Import users	

The dashboard is fully adjustable; it consists of multiple building blocks (widgets) that can be added and removed from the screen. You can use the blocks to customize both the layout and functionality of the dashboard.

By default, there are four widgets on the dashboard: **Quick links**, **License**, **Printers with issues** and **Quick Setup Guide**. Apart from these, you can use the following additional widgets:

- Top Active: Devices: Shows the most active printing devices.
- Top Active: Groups: Shows the most active printing groups.
- Top Active: Users: Shows the most active users.

There are also six standard information blocks that give you system information.

<b>4</b>		9	37
Printed pages (Last 24 hours)		Number of users	Number of printers
<b>O</b>		20	5
Uptime (hours)		Recent warnings (Last 24 hours)	Recent errors (Last 24 hours)
Name		Description	
Printed pages (Last 24 hours)	t seconds.		24 hours. Cached every 60

Name	Description
Number of users	Number of active users. Clicking opens the <b>Users</b> page overview.
Number of printers	Number of printers where the status is not: Local, replicated or deleted. Cached every 15 seconds. Clicking opens the <b>Printers</b> page.
Uptime (hours)	MyQ system uptime, in hours.
Recent warnings (Last 24 hours)	Number of warning log messages over the last 24 hours. Cached every 30 seconds.
Recent errors (Last 24 hours)	Number of error and critical log messages over the last 24 hours. Cached every 30 seconds.

From the **Quick links** widget, you can directly access the most important tabs of the MyQ Web Interface.

Quick links	
匾 Jobs 合 Printers ♀ Users ঔ Reports   💥 Settings 團 Log	

**Printers with issues** shows unreachable active printers and active printers with unresolved alerts. You can also see these issues in the **Issues** column, in the **Printers** overview (**MyQ**, **Printers**).

The **License** widget shows license information and can redirect you to the **License** settings tab.

The Quick Setup Guide walks you through the initial MyQ setup.

#### Adding new widgets and moving widgets on the dashboard

To add a new widget:

1. Click **Add a new widget** at the top-right corner of the dashboard. The Add a new widget dialog box appears.

≡ <b>my</b> Q	Home		⊗ 0
🔓 Home		🕀 Add a new widget Theme	🔹 🃿 Refresh   🔯 Generate data for support   Log out

2. In the dialog box, select the widget, and then click **OK**. The new widget is displayed on the board.

Add a new widget			×
Widget:	[empty]		^
	Top Active: Groups		
	Top Active: Groups Top Active: Printers Top Active: Users	ancel	~

To move widgets, drag and drop them on the board.

#### Deleting widgets from the dashboard

To delete a widget from the dashboard, point at the upper-right corner of the widget, click the down-arrow button and click **Delete**.

#### Changing the theme

To change the MyQ Web Administrator's interface theme, click on **Theme** at the topright corner of the dashboard. The available options are:

- Synchronize with the operating system
- Light
- Dark
- Enhanced accessibility

≡ <b>myQ</b>	Home				∞
🔓 Home			🕒 Add a new widget	Theme  C Refresh  Generate data for support	t   Log out
₽ 0		<b>∧ 0</b>	<b>a</b> 0	<ul> <li>Synchronize with the operating system</li> <li>Light</li> <li>Dark</li> </ul>	(
Printed pages (Last 24 hours)		lumber of users	Number of printers	Enhanced accessibility ngs (Last 24 nours)	Rece (Last

### 5.4.1 Quick Setup Guide

On the **Quick Setup Guide** widget, you can set the basic and most important features of the MyQ system:

#### Time zone

- Here you can see if the time zone set in MyQ matches the Windows system time set on the server.
- By clicking **Edit**, you open the **General** settings tab, where you can adjust the time zone.

#### License

Adding and activating licenses

Click **Enter License**. The **License** settings tab opens. You are asked to enter the following information about your installation:

📼 License	
Enter informa	tion about this installation
Company: *	Company X
Person: *	John Doe
Address: *	Sandbox Lane 1234
Country: *	Czech Republic 🔹
Email: *	test@email.com
Phone:	
Fields marked by * a	re mandatory.
Enter the inst	allation key
Installation key:	
	✓ Save
To get MyQ SMAR	T license for free register at MyQ Community portal

Then, **Enter the installation key** in the field and activate your licenses.

You can also register in the MyQ Community portal and request for the free **MyQ SMART** license.

#### Administrator email

By clicking **Enter the administrator's email**, you open the **General** settings tab, where you can set the administrator email. Important system messages (disk space checker warnings, license expiration etc.) are automatically sent to this email.

#### **Outgoing SMTP server**

By clicking **Configure the outgoing SMTP server**, you open the **Network** settings tab, where you can set the outgoing SMTP server.

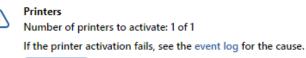
#### Printers

Adding printers:

- By clicking **Discover Printers**, you open the **Printer discovery** settings tab, where you can discover and add printing devices.
- By clicking **Add printers manually**, you open the **Printers** main tab, where you can manually add printing devices.

Activating added printers:

Click **Activate** to activate all the added printing devices.



Activate

Queues

By clicking **Add printer queues**, you open the **Queues** main tab, where you can add queues.

#### Users

- By clicking **Add users manually**, you open the **Users** main tab, where you can manually add users.
- By clicking Import users, you open the Users synchronization settings tab, where you can import users from the MyQ Central server, from LDAP servers, or from a CSV file.

### 5.4.2 Generate data for support

In case you encounter a problem that requires help from the MyQ support team, you may be asked to provide more information about your MyQ system configuration, licenses, printer devices, terminals, etc. In such case, you need to generate a *MyQhelpdesk.zip* file, which contains multiple files with all the necessary information, and send it to the MyQ support team.

The .zip file includes the **Logs** folder which contains:

- error logs from Apache and PHP,
- the MyQ log file log\_dateandtime.xlsx,
- the Windows Event log,
- the *statsData.xml* file,
- httperr\*.log files,
- and the MyQ-helpdesk.xml file with MyQ system information.

The MyQ log file corresponds to the MyQ log that can be displayed on the MyQ Web Interface or in the MyQ Easy Config application, but they differ from each other.

To generate the *MyQ-helpdesk.zip* file:

- 1. Click **Generate data for support** on the bar at the top of the **Home** dashboard. The Generate data for support dialog box appears.
- 2. In the dialog box, specify the **Day** and the exact **Time** span of the MyQ events to include in the *MyQ-helpdesk* file, and then click **Export**. The file is generated and saved to your *Downloads* folder.

	Generate data for support	×
	Day: * 01/27/2022 💼 mm/dd/yyyy	
	Time: * 02:30 PI () - 03:30 PI ()	
id e –	Fields marked by * are mandatory.	

### 5.5 MyQ Log

In the MyQ server log, you can find information about all parts of the MyQ server: the MyQ server, MyQ Web UI, etc. Log messages are sorted into these types *Critical, Error, Warning, Info, Notice, Debug, Trace* and you can select the types that you want to be displayed.

You can also set the log to display only messages informing about specific MyQ subsystems, such as the Web UI, remote printer setup, user sessions on MyQ terminals, and also about a specific context, for example, direct printing or a specific printing device.

<b>≡ MYQ</b> ∩ Home [ ∰ Log	ු Log		Run / Open	↓ Show from here   🖻 Tools •	. <i>C</i> .	Rofrach	Search	Q Q
Date:	Time	<ul> <li>Type</li> </ul>	Subsystem	Context		Text	Search	
elect a period or enter a range with the formation	02/02/2022 3:35:22 PM	Debug			0		ing new d	
tarting dateending date. Date format: nm/dd/yyyy	02/02/2022 3:35:19 PM 02/02/2022 3:35:19 PM	Trace War	General	Email sender	97		CoreServi	
Context:	02/02/2022 3:35:19 PM	Trace	General				oreService	
	02/02/2022 3:35:19 PM	Debug	Direct Print			Check	ing new d	irect
Subsystem:	02/02/2022 3:35:16 PM	Debug	Direct Print			Check	ing new d	irect
	<ul> <li>02/02/2022 3:35:13 PM</li> </ul>	Debug	Direct Print			Check	ing new d	irect
ype: Critical	02/02/2022 3:35:10 PM	Debug	Direct Print			Check	ing new d	irect
	02/02/2022 3:35:07 PM	Debug	Direct Print			Check	ing new d	irect
✓ Warning	02/02/2022 3:35:04 PM	Debug	Direct Print			Check	ing new d	irect
<ul> <li>✓ Info</li> <li>✓ Notice</li> </ul>	02/02/2022 3:35:01 PM	Debug	Direct Print			Check	ing new d	irect
Debug	02/02/2022 3:34:58 PM	Debug	Direct Print			Check	ing new d	irect
✓ Trace	02/02/2022 3:34:55 PM	Debug	Direct Print			Check	ing new d	irect
Q Search	02/02/2022 3:34:52 PM	Debug	Direct Print			Check	ing new d	irect
	02/02/2022 3:34:49 PM	Trace	General		N	OUT	CoreServi	ces_(
	02/02/2022 3:34:49 PM	War	CLI	Email sender		SMTP	not set. 2	2 em
	02/02/2022 3:34:49 PM	Trace	General			IN   Co	preService	s_Co
	02/02/2022 3:34:49 PM	Trace	General		Ø	OUT	CoreServi	ces_(
	02/02/2022 3:34:49 PM	Trace	General			IN   Co	oreService	s_Co
	02/02/2022 3:34:49 PM	Debug	Direct Print			Check	ing new d	irect
	02/02/2022 3:34:45 PM	Debug	Direct Print			Check	ing new d	irect
	02/02/2022 3:34:42 PM	Debug	Direct Print			Check	ing new d	irect
	02/02/2022 3:34:39 PM	Debug	Direct Print			Check	ing new d	irect

The log is updated in real time, but you can pause it and select to show messages from a specific time period, such as yesterday, this week, last week, last X hours, last X weeks, etc.

#### Opening the MyQ Log

On the MyQ Web User Interface, go to **MyQ**, **Log**, or on the **Home** dashboard, click **Log** on the **Quick links** gadget.

#### Pausing/Refreshing the log

To pause or resume the real time run of the log, click **Run** on the bar at the top of the **Log** tab. To refresh the log up to the current moment, click **Refresh** on the same bar.

# Filtering the log: selecting time period, types of information, subsystem or context

You can filter the log on the panel:

- After you pause the log, you can select the period in the **Date** combo box.
- The types can be selected and deselected on the panel at the right side of the **Log** tab.
- On the **Subsystem** combo box, you can select/type one or more subsystems to be displayed in the log.
- In the **Context** text box, you can type the context to be displayed.

After the filters are set, click **Search** to submit them.

#### Exporting the log/Generating data for support

Click **Tools** on the bar at the top of the **Log** tab, and then select one of the following export options:

- Save as Excel export the log as an Excel file
- Save as CSV export the log as a CSV file
- Generate data for support generates a *.zip* file with multiple files for MyQ support.



#### Highlighting log messages

You can highlight particular log messages. To do so, select the message that you want to highlight and then press the **SHIFT + SPACE** keyboard shortcut.

Time	Туре	Subsystem	Context	Attachments
02/28/20	Debug	Printer Status Checker	Printing device F	
02/28/20	Debug	User Session Monitor	Direct printing	
02/28/20	Debug	User Session Monitor	Direct printing	
02/28/20	Debug	User Session Monitor	Direct printing	

To remove all highlights, click **Tools** on the bar at the top of the **Log** tab, and then click **Remove highlighting**.

### 5.6 MyQ Audit Log

In the **MyQ Audit Log**, you can view all the changes of MyQ settings, along with information about who made the changes, the time when they were made and which subsystem of MyQ was affected by them.

	udit Log		
🖉 Audit Log			
Date:	🖉 Open   🕾 Tools 🔻 🃿 Refresh Search 🔍		
Select a period or enter a range with the format	Time   Type Description Context	User	Subsystem
starting dateending date. Date format: mm/dd/yyyy	Today		
User:	02/02/2022 3:30:40 🖉 Settings were changed.	Administrator • *admin	WebUI
-	02/02/2022 1:20:17 🧷 Settings were changed.	Administrator • *admin	WebUI
Type:	02/02/2022 1:19:17 🧷 User Administrator was edited.	Administrator • *admin	WebUI
All	02/02/2022 11:58:4 🖉 Settings were changed.	System • *system	CLI
	02/02/2022 11:58:4 🖉 Group All users was edited.	System • *system	CLI
Q Search	02/02/2022 11:58:4 🧷 User User not authenticated by MyQ was	System • *system	CLI

#### Opening the MyQ Audit Log

On the MyQ Web User Interface, click **MyQ**, and then click **Audit Log**.

Filtering the Audit Log: selecting time period, user and type of event

The displayed data can be filtered by a time period, the user who made the changes and the type of the event.

To display additional information about a particular change, double-click the change. A panel with the detailed information opens on the right side of the **Audit Log** tab.

#### Exporting the Audit Log

You can export the **Audit Log** by clicking **Export** on the main ribbon. The log is instantly generated and downloaded.

You can also click **Schedule Export** to have the log regularly exported. The schedule's properties panel open to the right, where you can set its parameters.

Audit Log Export		×
General Filters and para	meters Rights	
Enabled: *		
Name: *	Audit Log Export	
Description:		
▼ Schedule		
Repetition: *	Weekly 💌	
Day: *	Monday	
	Tuesday	
	Wednesday	
	Thursday	
	Friday	
	Saturday	
	Sunday	
Hours of run: *	5:00	
	hh:mm, hh, h:mm, hh am, hh pm	
	For multiple values, separate with a comma or semicolon	
Notification		
▶ Report		
	Save Cancel	
Fields marked by * are mandat	ory.	

## 6 MyQ System Settings

This topic discusses basic system settings of the MyQ system. The settings are located on separate tabs, accessed from the Settings menu:

- On the General settings tab, you can set the administrator email, change regional settings, and other general settings.
- On the Personalization settings tab, you can add custom help links and custom logos to be used in various parts of the MyQ system.
- On the Network settings tab, you can modify network settings such as certificates, server ports, etc.
- On the Authentication servers settings tab, you can add LDAP and Radius servers for user authentication.
- On the Task scheduler settings tab, you can add new task schedules, change their settings and run scheduled tasks.
- On the Log & Audit settings tab, you can set the Log notifier feature, which enables sending notifications about selected log events to the administrator and/or any number of MyQ users.
- On the System management settings tab, you can change settings of the MyQ history, set the maximum size of files that can be uploaded on the MyQ Web Interface, delete data from the MyQ database, and also reset MyQ components to apply settings previously made on other tabs.

### 6.1 Server Type Settings

In the **Server type** settings tab, the MyQ administrator can set the type of server to use:

	♀ Settings: Server type
Settings	♀ Server type
License	▼ Server type
<ul> <li>General</li> <li>Personalization</li> <li>Task Scheduler</li> </ul>	Standalone server: licensed separately. Site server: Production MyQ server, licenses are allocated from the Central Server. Server type:  Standalone server Site server Site server
<ul> <li>₽ Network</li> <li>▲ Authentication servers</li> <li>♥ SNMP</li> </ul>	✓ Connection settings     Site name: *     Central Server address: *
<ul> <li>Printers &amp; Terminals</li> <li>Configuration Profiles</li> <li>Printer Discovery</li> <li>Terminal Actions</li> <li>Events</li> <li>Event Actions</li> </ul>	Enable secure connection:  Port: * 8093 Password for communication: * Password is used for communication between Central server and Site servers.  Licenses
<ul> <li>Users</li> <li>Policies</li> <li>User Synchronization</li> <li>User Authentication</li> <li>Rights</li> </ul>	Embedded terminals: * 0 Embedded Lite terminals: * 0 ✓ Save Cancel Fields marked by * are mandatory.

• **Standalone server** - this is enabled by default. It corresponds to the MyQ Print server.

- **Site server** this option can only be used within a MyQ Central server installation.
  - Site name add a name for your site server
  - Central Server address add the Central server's host name or IP address
  - **Enable secure connection** enabled by default. The connection between the Central server and the site servers is secure.
  - Port 8093 by default.
  - **Password for communication** password used for the communication between the MyQ Central server and Site servers.
  - **Embedded terminals** add the number of embedded terminal licenses to be used on this site (distributed by the Central server)
  - **Embedded Lite terminals** add the number of embedded lite terminal licenses to be used on this site (distributed by the Central server)

In older versions, in the **Server type** settings tab, it was possible to switch between the Standalone server, a Site server, or a Central server. This is no longer available, as the MyQ Print server and MyQ Central server are different products and use separate installers. If you have such a setup and plan to upgrade to MyQ Central server 8.2, be advised that the upgrade will not be successful. It is required to upgrade your system to version 8.1, download the latest MyQ Central server installer, and **migrate** your setup (described in detail in MyQ Central Server).

## 6.2 General Settings

The General settings tab contains the General section.

	💥 Settings: General	
% Settings	💥 General	
License Server type	▼ General	
General Personalization	Administrator email: *	MyQ sends important system notifications to this email
Task Scheduler     Task Scheduler	Time zone: *	Prague (UTC+01:00)   All MyQ services must be restarted if the system time zone has changed
Authentication servers	Default language: *	English (United Kingdom)
<ul> <li>Printers &amp; Terminals</li> <li>Configuration Profiles</li> <li>Printer Discovery</li> </ul>	Additional languages:	Additional languages are used for custom fields
Terminal Actions Events	Currency:	3-letter currency code
Users	Number of digits after the decimal point:	2
Policies     User Synchronization	Column delimiter in CSV: *	: •
C User Authentication		Save Cancel
🕜 Rights	Fields marked by * are mandatory.	

In this section, you can set the administrator email, time zone, default and additional languages, currency and the column delimiter in CSV files.

- Administrator email: The administrator email receives important system messages (disk space checker warnings, license expiration, etc.) automatically sent from MyQ.
- **Time zone**: For the proper functioning of the MyQ system, make sure that the time zone set here is the same as the time zone set in the Windows operating system. After changing the time zone, you will be asked to restart the web server.
- **Default Language**: The default language setting determines the language of all emails that are automatically sent from MyQ and the language used on all connected terminals and interactive readers.
- Additional languages: You can set additional languages that will be used for custom fields. This way you can enter different names of the fields to be used in different languages.
- **Currency**: In the currency setting, you can enter the 3-letter currency code of the currency that you want to use in your pricelist.
  - The **Number of digits after the decimal point** option can be set from 0 to 5 (default is 2).
- **Column delimiter in CSV**: The column delimiter in CSV files setting determines the delimiter in source and destination files used for all the import and export operations to and from the CSV file format. The default value is based on the regional settings of your operating system.

### 6.3 Personalization Settings

On this tab, you can set a custom message to be shown on the Web accounts of MyQ users, add links to your own custom help, and custom application logos to be used in MyQ, on MyQ terminals, and in MyQ Desktop Client.

$\equiv$ <b>MYQ</b> $_{\text{G} Home}$	C Settings: Personalization
💥 Settings	Personalization
License Server type	► Dashboard custom message
💥 General	Custom application logo
Personalization	Terminal personalization
<ul> <li>⑦ Task Scheduler</li> <li>□</li></ul>	Custom help
Authentication servers	Custom link in the MyQ Desktop Client.
SNMP	Save Cancel
Printers & Terminals Onfiguration Profiles	Fields marked by * are mandatory.

### 6.3.1 Dashboard custom message

Here you can enter a message to be displayed on the MyQ users web accounts. After you change the message, click **Save** at the bottom of the **Personalization** settings tab.

The *%admin%* parameter can be used to display the email address of the MyQ administrator within the message (the Administrator email set on the General settings tab).

Personalization	
<ul> <li>Dashboard custom message</li> </ul>	
Message:	
	Example: If you have any questions, please send an email to %admin%
	C Revert values

### 6.3.2 Custom help

Here you can add a link to your own web based help that will be displayed as a gadget on the user's MyQ home page.

To add a custom help link, enter the title and the link of your custom help, and then click **Save** at the bottom of the tab.

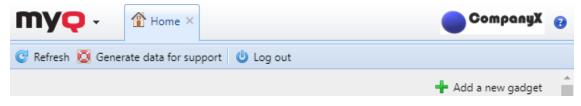
		▼ Custom help	
		The link is displayed on the user's MyQ home page	
		Title: CompanyX Printing Guide	
		Link: https://companyX.com/PrintingGuide	
٢	nyq	P → ① Home ×	
C	Refresh	😃 Log out	
	Comp	anyX Printing Guide	
	🕜 Com	panyX Printing Guide	

### 6.3.3 Custom application logo

Here you can add your company's logo to be used in the MyQ system. The logo will appear on the upper right corner of the MyQ Web Interface, on MyQ credit vouchers, in MyQ Desktop Client, and on reports.

Supported picture formats are *JPG/JPEG/PNG/BMP* and the recommended size is *398px* x *92px*.

To import the logo, click **+Add**, **Browse** for the file and **Open** it, and then click **Save** at the bottom of the tab. A preview of the new logo is displayed on the tab.



### 6.3.4 Terminal personalization

Here you can add your company's logo to be used on all your MyQ embedded terminals.

Supported formats are *JPG/JPEG/PNG/BMP* and the recommended size is *340px* x *92px*.

To import the custom logo, click **+Add**, **Browse** for the file and **Open** it, and then click **Save** at the bottom of the tab. A preview of the new logo is displayed on the tab.

<ul> <li>Terminal personalization</li> </ul>		
Custom Logo:	🕀 Add	
	Format: JPG/JPEG/R	PNG/BMP. Recommended size: 340px x 92px
Themes:	🕀 Add 🛛 🗙 De	elete 🗸 Activate
	Active	Name
	0	Blue Ice
	0	Cherry Blossom
	0	Classic
	0	Coloured Rays
	0	Purple Peace
	•	Spring Touch (Default)
	Custom themes car	n be created in the MyQ Theme Editor.

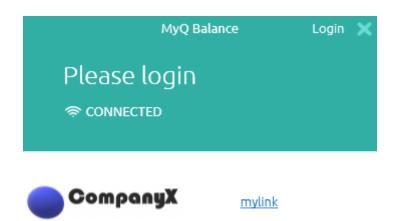
You can **Activate** one of the available **Themes** for your terminals:

- Blue Ice
- Cherry Blossom
- Classic
- Coloured Rays
- Purple Peace
- Spring Touch (Default)

You can also add your own **Theme**, however the MyQ Theme Editor app is needed for the creation of such a theme. Click **Add**, browse for the zip archive generated by MyQ Theme Editor, and click **OK**.

### 6.3.5 Custom link in the MyQ Desktop Client

Here you can add a link to your own web based help (weblink, network path or local path) that will be displayed in MyQ Desktop Client.



To add the custom help link, enter the title and the link of your custom help, and then click **Save** at the bottom of the tab.

▼ Custom link in the MyQ Desktop Client.			
The link is displayed in the MyQ Desktop Client. It can be a weblink, a network path or a local path.			
Title:	CompanyX		
Link:	http://www.companyX.com/help		

## 6.4 Network Settings

On the **Network** settings tab, you can manage the network communication between the MyQ server and other parts of the MyQ solution. It is divided into the following sections: **General, Communication Security, MyQ SMTP Server, FTP Server, MyQ X Mobile Client, Outgoing SMTP Server, HTTP Proxy Server, Firewall**, and **PM Server**.

<b>≡ MYQ</b>	문 Settings: Network
💥 Settings	무 Network
License Server type	▶ General
💥 General	Communication Security
<ul> <li>Personalization</li> <li>Task Scheduler</li> </ul>	► MyQ SMTP Server
9 Network	► FTP Server
Authentication servers	MyQ X Mobile Client
SNMP	Outgoing SMTP Server
Printers & Terminals Onfiguration Profiles	HTTP Proxy Server
Rinter Discovery	▶ Firewall
Terminal Actions Events	▶ PM Server
Ky Event Actions	Save Cancel
🙁 Users	Fields marked by * are mandatory.

### 6.4.1 General

In this section, you can enter the hostname of the MyQ Print server. This hostname is used by external components of the MyQ system, such as embedded terminals or MyQ Desktop Client, for communication with the MyQ server.

▼ Ge	▼ General				
	This server hostname: *	Terminals, MyQ Desktop Client and other components use this hostname when communicating with the server. It must match the certificate.			
i		etup, the server hostname should be a valid hostname or IP-address. e might change the hostname to myq.local. Then the remote setup			

### 6.4.2 Communication Security

will fail and result in an error message.

In this section, you can choose how your security certificates are managed.

MyQ offers three different certificate management modes:

- Built-in Certificate Authority This is the default mode for new installations. MyQ creates a self-signed CA certificate and uses it to sign server and client certificates. The public key of the CA certificate can be exported (click the Export CA certificate button) to install it to clients, so they trust MyQ server. It is possible to specify the Subject Alternative Name (SAN), which is set as a comma separated list of domain names and/or IP addresses. In case the certificate is compromised, click the Generate new CA certificate button, to generate a new one.
- 2. Company Certificate Authority Your company CA generates an intermediate CA certificate which MyQ uses to sign certificates for the server and clients. To generate an intermediate CA certificate click Create CSR to create a Certificate Signing Request (CSR), sign it by your CA and click Finish CSR to finish CSR by importing signed certificate. If the intermediate CA certificate does not contain a CA root certificate in its chain, the administrator is prompted to upload the public key of the CA root certificate as well (the Import CA root certificate button appears).
- Manual Certificate Management Provide a certificate for the MyQ Server. MyQ creates no certificates; all certificates are managed by you. Click Import Server certificate to upload it. The certificate can be uploaded in PEM (public + private key separately) or in PFX format. The PFX format may be password encrypted. This mode is recommended only for expert users.

Communication Security				
MyQ secures communication with certificates which is an industry standard. Choose how certificates are managed.				
Certificate Authority mode: *	<ul> <li>Built-in Certificate Authority Server and clients are secured by certificates generated by the built-in certificate authority (CA). The CA certificate is self-signed. Export the CA certificate and install it to clients so they trust MyQ Server. If the CA certificate is compromised, generate a new one. Server certificate will be regenerated automatically.         <ul> <li>Generate new CA certificate</li> <li>Export CA certificate</li> </ul> </li> <li>Company Certificate Authority         <ul> <li>Your company CA generates an intermediate CA certificate which MyQ uses to sign certificates for the server and clients. To generate an intermediate CA certificate create Certificate Signing Request (CSR), sign it by your CA and finish CSR by importing signed certificate. Server certificate will be regenerated automatically.</li> </ul> </li> <li>Manual Certificate Management         <ul> <li>Provide a certificate for the MyQ Server. MyQ creates no certificates, all certificates are managed by you.</li> </ul> </li> </ul>			
Server alternative names:	Comma separated list of DNS names and/or IP addresses. To set new Subject Alternative Name (SAN) for MyQ Server			
	generate new Server certificate. Server hostname is included automatically.           Generate new Server certificate			

When upgrading an existing MyQ installation, the **Certificate Authority mode** is selected according to the existing server certificate:

- if the certificate is not CA, then the mode is set to **Manual Certificate Management**.
- if it was generated by MyQ before, then the mode is set to **Built-in Certificate Authority**.
- in other cases, the mode is set to Company Certificate Authority.

### 6.4.3 MyQ SMTP Server

In this section you can view and modify the SMTP server settings.

- **SMTP (STARTTLS)** Enable when using unsecure communication or secure communication over STARTTLS. Port *25* by default.
- **SMTPS(SSL/TLS)** Enable when using secure communication over SSL/TLS. Port *587* by default.

If scanning to MyQ is enabled, set the port shown here in the device's SMTP settings.

#### 6.4.4 FTP Server

In this section, you can set the **FTP server port** that terminals use when sending scan jobs to MyQ over the FTP protocol. The FTP port is *21* by default, and the range is *0 to 65535*. If you click the **Generate new password** button, there is a confirmation pop-up informing that if a new password is generated, all the terminals need to be reconfigured.

### 6.4.5 MyQ X Mobile Client

In this section, you can set the server hostname or IP address and the communication port for using the MyQ X Mobile Client application and MyQ Print Agent. They may differ from the general settings because mobile devices connect via Wi-Fi.

Choose **Use the same settings as on the LAN (***hostname:port***)** to use the same settings as the MyQ server (default) or choose **Use custom settings** and add the **Server** and **Secure port (SSL)** you want to use.

MyQ X Mobile Client	
MyQ X Mobile Client and MyQ Print Agent use the following settings to conn these apps usually use the WiFi.	ect to the MyQ server. The address and port may differ from the LAN because
MyQ server address: * Use the same settings as on Use custom settings Set up the routing so that the fol Server: WIN-MP6IO4EBLHI Secure port (SSL): 8090	the LAN (WIN-MP6IO4EBLHI:8090) lowing address in the WiFi is routed to the MyQ Server in the LAN.

### 6.4.6 Outgoing SMTP Server

To send email reports, send error messages to users, send automatically generated PIN to users, and forward scanned documents, you have to configure the email server where all the emails are forwarded to.

To configure the server, do the following:

Select a Type from Classic SMTP Server or SMTP Server with OAuth login.

For Classic SMTP Server.

- 1. Enter the server hostname or IP address in the **Server** text box. If the email server listens to other than the 25 TCP port, change the **Port** setting to the correct value.
- 2. Choose between the *None*, *SSL* and *STARTTLS* **Security** options.
- 3. Optionally choose to Validate certificate or not.
- 4. If credentials are required, enter the User and Password.
- 5. Enter the address that you want to be displayed as the **Sender email** on PIN, alert and report messages.
- 6. After you enter the data, you can click **Test** to test the connection to the email server, and click **Save** to save your changes.

For SMTP Server with OAuth login:

 If you have already set up a Microsoft Exchange Online server or a Gmail with OAuth2 server in the External Systems settings, those servers are available in the Server field drop-down. If not, you can click on the Server field and then click Add new to add your Microsoft Exchange Online or Gmail server. For more information, check Microsoft Exchange Online Setup and Gmail with OAuth2 setup.

✓ Outgoing SMTP Server			
	e: Classic SMTP Server SMTP server with OAuth login		
Server:	↓ ✓		
Port: *	Add new		
User:	Gmail Test MS Exchange Online		
Sender email: *	MyQ@MyQ.local		
	Test		

- 2. If the email server listens to other than the 25 TCP port, change the **Port** setting to the correct value.
- 3. **Security** is *STARTTLS* by default and cannot be changed.
- 4. If credentials are required, enter the **User**.
- 5. Enter the address that you want to be displayed as the **Sender email** on PIN, alert and report messages.
- 6. After you enter the data, you can click **Test** to test the connection to the email server, and click **Save** to save your changes.

### 6.4.7 HTTP Proxy Server

In this section, you can set up a MyQ Proxy server which can be used for activating a license. Mandatory fields are **Server** (name) and **Port**. After changing ports, restart all MyQ services.

### 6.4.8 Firewall

In this section, you can **Allow editing firewall rules** of the Microsoft Windows Firewall and you can also **Reset firewall rules**.

### 6.5 Authentication Servers Settings

If you want to authenticate users against an LDAP server, synchronize users from an LDAP server or authenticate users against a Radius server, you have to add all the servers on this tab.

### 6.5.1 Adding a new LDAP server:

1. Click **+Add** and select **LDAP server**. The new LDAP server properties panel opens on the right side of the screen.

	Settings: Authentication se			
Settings	Network 🕨 🔔 Authentication servers			
License	( Add ▼   ∮ Actions ▼   C Refresh			
♀ Server type	LDAP Server Insert pmain/Name Server Security			
💥 General	Adius server			
Personalization				
<ul> <li>Task Scheduler</li> </ul>				
💂 Network				
Authentication servers				
😤 SNMP				

- 2. Enter the LDAP domain.
- 3. Select the LDAP **Type**. You can select from *Active Directory, Novell, OpenLDAP*, and *Lotus Domino*. (For *Active Directory* you must select *SSL* in the **Security** field and the **Server** port must be *636*)
- 4. If you want the communication with the LDAP to be secured, select the **Security protocol** that you want to use.
- 5. Enter the **Server** IP address or hostname and the communication port. (For *Active Directory* you can leave the IP address or hostname empty if you do not know them. The server will then be saved as Auto-discover)
- 6. If you have more addresses related to one LDAP server, you can add them by clicking **Add**.
- 7. Click **Save**. The LDAP server now appears on the list of servers.

🕹 LocalAD >				
General				
Domain: *	LocalAD			
Type: *	Active Directory 💌			
Security: *	None 💌			
Server:	10.1.3.65 389	×		
	(+) Add			
	Leave blank for automatic discovery of the Domain Controller for the doma	in		
	Save Test Cancel			
Fields marked by * a	re mandatory.			

### 6.5.2 Adding a new Radius server:

- 1. Click **+Add** and select **Radius server**. The new Radius server properties panel opens on the right side of the screen.
- 2. Enter the Radius server **Name**.
- 3. Enter the **Server** IP address or hostname, the communication port and the Shared secret.
- 4. If you have more addresses related to one Radius server, you can add them by clicking **Add**.
- 5. Click Save. The Radius server now appears on the list of servers.

🔔 Radius 1				×
General				
Name: *	Radius 1			
Server: *	Address*	1812	Shared secret*	
	🕀 Add			
	✓ Save	Test	Cancel	
Fields marked by * a	re mandatory.			

## 6.6 Task Scheduler Settings

The **Task Scheduler** settings tab serves as an interface for planning regular tasks in MyQ®. There are seven predefined tasks:

# Database and settings backup, Log backup, System health check, History deletion, Printer Discovery, System maintenance, and User Synchronization.

Apart from these, you can import projects from CSV files, add scheduled reports, and execute external commands.

External commands are disabled by default. To enable them, switch the **scheduleExternalCommand** parameter in the *config.ini* file from *0* (disabled) to *1* (enabled).

= <b>my</b> home	Settings: Task Scheduler				
💥 Settings	🕐 Task Scheduler				
E License	🕣 Add schedule 💌 🗋 Run 🛛 🖉 Edit 🔗 Actions 💌 💭 Refresh				
♀ Server type	Status Action	Name	Period	Last run	Next run
Seneral	Backup	Database and settings backup	Daily	02/03/2022 3:44:07 PM	02/04/2022 3:00:00 A
Personalization	<ul> <li>History deletion</li> </ul>	History deletion	Daily	02/03/2022 3:44:07 PM	02/04/2022 3:00:00 A
⑦ Task Scheduler	O Backup	Log backup	Daily	Never	-
💂 Network	O Printer Discovery	Printer Discovery	Daily	Never	-
Authentication servers	<ul> <li>System health check</li> </ul>	System health check	Minute	02/03/2022 4:08:31 PM	02/03/2022 4:09:31 PM
😤 SNMP	<ul> <li>System maintenance</li> </ul>	System maintenance	Daily	02/03/2022 3:44:13 PM	02/04/2022 3:00:00 A
Printers & Terminals	<ul> <li>User Synchronization</li> </ul>	User Synchronization	Daily	Never	_

### 6.6.1 Running and setting task schedules

#### To manually run a task schedule:

- Select the task schedule that you want to run.
- Click **Run** on the **Task Scheduler** toolbar.

Ог

- Right-click the task schedule.
- Click **Run** on the shortcut menu.

#### To set a task schedule:

Double-click the task schedule that you want to set (Or right-click it, and then click **Edit** in the actions shortcut menu.). The respective task schedule properties panel

opens on the right side of screen.

The task schedule properties panel is divided into four sections:

- In the uppermost section, you can enable or disable the schedule, enter its **Name** and write its **Description**.
- In the **Schedule** section, you must set a period of **Repetition** for the task run and change the exact time of the task run start.
- In the **Notification** section, you can select to send an email notification. You must also choose if you want to send the notification every time or just in case of an error.
- The bottom section, if present, is particular to the type of task.

After you set the schedule, click **Save**.

Database and settings backup $\qquad \qquad \times$				
General Rights				
Enabled: *				
Name: *	Database and settings backup			
Description:				
	]			
▼ Schedule				
Repetition: *	Daily -			
Every N-th day: *	1			
Hours of run: *	3			
	hh:mm, hh, h:mm, hh am, hh pm			
	For multiple values, separate with a comma or semicolon			
▼ Notification				
Send a notification after				
performing the task:	Select a user or enter an email			
Only in case of an error				
or warning:				
▼ Backup				
Destination folder: *	%app%\Backup			
	%app% is the MyQ data folder			
Backup password:				
	If empty, unprotected backup is created			
Confirm password:				
Delete backup after: *	7 days			
	Cancel			
	Cancel			
Fields marked by * are mandatory.				

# 6.6.2 Providing rights for task schedules

You can provide users with rights to change some task schedules settings themselves.

To provide users with rights to change settings of a task schedule:

- 1. Double-click the schedule that you want to set. The respective schedule properties panel opens on the right side of screen.
- 2. On the bar on the upper-left corner of the panel, click **Rights**. The **Rights** tab opens.
- 3. Click +Add user. The Select user or group dialog box appears.
- 4. Select the user or the group of users that you want to provide with the rights, and then click **OK**.

### 6.6.3 Automatic database and log backup

There are two automatic backup tasks on the **Task Scheduler** tab. The database and settings backup and the log backup. The backup process is automatic. The files are compressed and saved to the **Backup** folder.

#### **Backup settings**

- Destination folder: The folder that stores the backup data.
- **Backup Password**: Password protect the backup. If this field is left empty, the created backup is unprotected.
- **Confirm Password**: Confirm the above password.
- **Delete backup after** <u>days</u>: The days after which the data are deleted from MyQ.

# Backup	
Destination folder: *	%app%\Backup
Backup password:	%app% is the MyQ data folder If empty, unprotected backup is created
Confirm password:	
Delete backup after: *	7 days

# 6.7 Accounting Settings

In the **Accounting** settings tab, in the **General** section, the MyQ administrator can set:

- the Accounting mode MyQ will be using:
  - Accounting Group This is selected by default. In this mode, all quotas are available and can be spent.

- Cost Center In this mode, only the selected (cost center) payment account is spent.
- the Payment account priority, which applies to terminals that don't support user selection of payment accounts, and to direct queues without the MyQ Desktop Client option. The payment account with the highest priority is always used in such cases:
  - Credit
  - Quota

```
🗟 Accounting
```

▼ General			
Accounting mode: *	Accounting Group 👻		
	Accounting Group: Accounting group is selected automatically, all quotas are spent.		
	Cost Center: Only selected payment account is spent. The Cost Center mode can be used only with embedded terminal versions 8.2 or higher.		
Payment account priority: *	Credit		
	O Quota		
	Payment account priority applies to terminals which don't support user selection of payment account and to direct print via queues without MyQ Desktop Client option enabled. In such case payment account with highest priority is always used no matter of its balance/status.		
<ul> <li>Job price calculation before rel</li> </ul>	ease		
The printer is set up to increase the page counter value for A3 and Ledger format by: *	2 - Europe, USA (default) 💌		
	Save Cancel		
Fields marked by * are mandatory.			

#### Limitations:

- The **Cost Center** mode does not work on printers without a terminal.
- The Cost Center mode can be used only with embedded terminal versions 8.2 or higher.
- In the **Cost Center** mode, if a user has more than one account, the job is paused and the account must be selected via MyQ Desktop Client (v.8.2 or higher). If there is only one account, the account is assigned automatically.

If you use the Cost Center mode on embedded terminals with a version older than 8.2, the terminals activation fails. The following error message can be found in the log: "Terminal is incompatible | reason=Terminal version must be at least 8.2 in cost center mode".
 If you switch to the Cost Center mode on embedded terminals with a version older than 8.2, the following warning can be found in the log: "This terminal is not

supported in cost center accounting mode. Upgrade terminal at least to version 8.2". Switch to the **Accounting Group** mode or upgrade your embedded terminals to version 8.2 for the terminals to be successfully activated and work properly. If you choose to switch, your terminals need to be re-activated. This can be done automatically by clicking **OK** in the Apply Settings pop-up, or manually on each device.

Comparison between Accounting Group and Cost Center

Accounting group	Cost center
Max 1 accounting group per user	Multiple cost centers can be assigned to a user
If multiple quotas are assigned to a user, all of them are spent.	Only one quota is spent. If credit, or a cost center without quota is selected, no quota is used.
If credit or personal quota is selected, the job is still accounted to the accounting group	If credit or personal quota is used, no cost center is accounted.
Every job performed by user is accounted to their Accounting group	A job is accounted to the cost center only if selected, or if it is the only account the user has.

In the **Job price calculation before release** section, the MyQ administrator can select between *1 - Japan*, or *2 - Europe, USA (default)* for **The printer is set up to increase the page counter value for A3 and Ledger format by** setting.

# 6.8 External Reports

By default, the only access to the MyQ Firebird database is via the *SYSDBA* account. Since this account has full read/write rights, it is not secure to use it for accessing the database from 3rd party software (for example BI tools for reporting). A read-only access account is needed to avoid unintentional database corruption.

In the **External Reports** settings tab, the administrator can enable a **database read-only account** to be used with external reports.

	C Settings: External Reports	~ ©
% Settings	() External Reports	
Projects	Analyze data with external Business Intelligence tools. Help	
Price lists	✓ Database read-only account	
Jobs	The Database read-only account is used to provide BI tools read-only access to the database for analysis and reporting purposes.	
a Scanning & OCR	Enabled:	
Code Books	Account name: db_datareader	
🕒 Reports	Password: *	
🕒 External Reports	Confirm password: *	
与 External Systems		
🖉 Log & Audit	Save Cancel	
System Management	Fields marked by * are mandatory.	

Activating the **Enabled** switch automatically creates a read-only access account to the MyQ Firebird database with the following settings:

- Account name: *db\_datareader*. This is the newly created read-only database user. The account name cannot be changed.
- Password: password for the *db\_datareader* account, set by the administrator. A
  new password must be set every time when switching from the **Disabled** to
  Enabled state.
- **Confirm password**: confirmation of the above password.

Enabling the database read-only account automatically enables a Windows Firewall rule to allow incoming connections to the MyQ Firebird database. If disabled, the rule is deleted.

After restoring a backup using MyQ Easy config, the Windows Firewall rule and the *db\_datareader's* account password will be restored if the account state was Enabled when the backup was created. If the account state was Disabled, then the existing Windows Firewall rule will be deleted and the user account will be dropped in the restored Firebird database.

# 6.9 Log and Audit Settings

On this tab, you can set the **Log Notifier** feature, which enables sending notifications about selected log events to the administrator and/or any number of MyQ users. The notifications can be sent via email or they can be sent to Windows Event Viewer.

🔄 Log & Audit					
General					
History					
Log Notifier					
		Cancel			
Fields marked by * are mandatory.					
Log Notifier rules					
🕀 Add item   🖉 Edit 🔹 Enab	led $ imes$   $m{ extsf{ imes}}$   Regular	expression test			
Enabled Rule name	Туре	Subsystem	Context	Text	Destination
<ul> <li>Rules</li> </ul>	Warning	Job Hot Folder			

**General –** If you select the **Log debug level messages** option, the system will generate more information for troubleshooting. The information will be shown in the MyQ Log.

However, this feature will impact your system's performance. Therefore, we recommend you to enable it only in case of a system malfunction or if it is requested by MyQ support.

History – Here you can set when the logs should be deleted.

**Log Notifier –** The notifications and their destinations are both specified by log notifier rules.

Under **Log Notifier**, you can set the period after which the log is checked for new events in the **Check new records in log every:** ... seconds text box (*300* by default).

▼ Log Notifier	
Check new records in log every: *	300 seconds
✓ Save	Cancel

### 6.9.1 Management of the Log Notifier Rules

To add a new rule, click **+Add item** at the upper-left corner of the **Log Notifier rules** widget. The properties panel of the new rule opens on the right side of the tab. On the tab, edit and save the rule.

Log Notifier rules				
🕣 Add item 🛛 🧷 Edit	$ullet$ Enabled $ imes$ $\mid igcar{C} \mid$ Regular e	xpression test		
Enabled Rule name	Туре	Subsystem		
Rules	Warning	Job Hot Folder		

To open the editing options of a rule, double-click the rule (or right-click the rule, and then click **Edit** on the shortcut menu). The following settings can be changed:

- Enabled: activate, deactivate the rule
- Rule name: name of the rule
- **Type**: the available event types *Info, Warning, Error, Notice, Debug, Critical*
- **Subsystem**: subsystems of the MyQ application (*Terminal, SMTP Server, CLI*, etc.)
- Context: specific part of the subsystem
- **Text**: text of the log event message; you can use Regular expressions to search for specific patterns

After you set the notification rule, click **Save**. The rule is saved and you can select its destinations.

📱 Log Notifier rule	×	ç
Enabled: *		
Rule name: *	New Rule	
Type:	Info 💌	
Subsystem:	Scheduler	
Context:		
Text:		
	Save Cancel	
Fields marked by tass mandat		

Fields marked by \* are mandatory.

To add the destination, click **+Add item** under **Destinations**.

You can select between two destination options: **E-mail** and **Windows Event Log**. If you select the **E-mail** destination, you need to add one or more recipients; you can either select them from the list of MyQ users in the **Recipients** drop-down or directly type the addresses there. After you set the destination, click **Save**. The new rule is displayed on the tab.

Destinations	🕀 Add item   🧷 Edit   🗙
Destination	Destination settings

The list is empty

To enable/disable Log Notifier rules:

- 1. Right-click on the rule.
- 2. Select **Enabled** (or **Disabled**) on the shortcut menu.

Log Not	tifier rules					
🕀 Add if	tem   🧷 Edit 🛛	Enabled ×   C   Regular express	ssion test			
Enabled	Rule name	Туре	Subsystem	Context	Text	Destination
•	Rules	Warning	Job Hot Folder	/ Edit		
•	New Rule	Info	Scheduler	Enabled		
				× Delete Delete		

# 6.10 System Management Settings

On the **System Management** settings tab, you can change the settings of the MyQ history, reset MyQ components to apply settings previously made on other tabs, and also delete data from the MyQ database.

System Management
> Disk space checker
> History
✓ Save Cancel
Fields marked by * are mandatory.
Advanced
℅ Apply settings ∽
Data deletion Fields marked by * are mandatory.

# 6.10.1 Disk space checker

The disk space checker protects the system against failure caused by insufficient disk space. You can set two levels of alert:

- **Warning level**: If the disk space reaches this level, the administrator gets an alert email message.
- **Critical level**: If the disk space reaches this level, the administrator gets an alert email message and the MyQ services are automatically stopped to prevent corruption of the MyQ databases.

# 6.10.2 History

In the **History** section, you can change the periods after which data stored on the MyQ server is deleted. You can set time periods for the following data:

- **Delete jobs older than**: Jobs remain on the MyQ server for the period set here. Older jobs (except for Favorite jobs) are deleted and cannot be printed. Favorite jobs stay on the server until they are manually deleted by the user or by the MyQ administrator.
- **Delete local scans older than**: Local scans (the scans stored on the MyQ server) remain on the MyQ server for the period set here. Older local scans are deleted and cannot be downloaded.
- **Delete history older than**: This setting determines the time period for storing data of user sessions, alerts on printing devices, the device counter history, and closed alerts. Older data are deleted from the MyQ database and cannot be used in MyQ reports.
- **Delete archived reports older than**: Reports are archived for the period set here. Older reports are deleted.

To change the values, enter new values to the particular text box, and then click **Save**.

▼ History	
Delete jobs older than: *	168         hours           Favorite jobs will not be deleted.
Delete local scans older than: *	24 hours Older scans cannot be downloaded.
Delete history older than: *	1460 days Reports can be created only within this period. Older data is deleted.
Delete archived reports older than:	90 days Reports are archived so you can download them without executing them again.

### 6.10.3 Advanced

In the **Advanced** section, you can reset MyQ components to apply settings previously made on other tabs, delete all users without a session, and permanently remove inactive users, printers, groups and user data from the MyQ database.

#### **Applying changes**

Some changes of the MyQ server require a reset of some of the server's components. When you save these changes, the system proposes to automatically perform the reset. If you decide to skip this action, you need to reset the components later. Via the **Apply Settings** button, you can reset the components at any time. After you click the button, click a component that you want to reset and the settings will be applied without further notice.

Advanced
😹 Apply settings 💌
Restart HTTP Server (Apache)
Reset all terminals
Reconfigure MS Cluster monitoring script
Reconfigure PM Server

#### Data deletion

The delete/remove buttons perform the following actions. These actions cannot be undone. It is recommended you backup your data before performing any of them.

- Delete users: Deletes all users without user sessions.
- Delete projects: Removes projects that were never used.
- **Deleted inactive users and groups**: Permanently removes all inactive users and all groups with no active users from the MyQ database.
- **Deleted printers** : Removes all printers which are deleted and have never been activated from the MyQ database.
- User data: User Sessions, Jobs, Groups, Users, Vouchers: Removes all user related data from the MyQ database.

Advanced	
💥 Apply settings 🔻	
▼ Data deletion	
Users to delete:	0
	× Delete users without sessions
	Users with user sessions will not be deleted.
Projects to delete:	0
	× Remove projects without sessions
	Only the projects that never were used will be deleted. This action cannot be undone.
Deleted inactive users and groups:	0
	× Permanently remove deleted users and groups
	Deleted inactive users and groups will be permanently removed. This action cannot be undone.
Deleted printers:	0
	× Remove deleted printers
	Only the printers that never were active before will be deleted. This action cannot be undone.
User data:	User Sessions, Jobs, Groups, Users, Vouchers
	× Delete user data
	This action cannot be undone. We recommend that you make a backup.
Fields marked by * are mandatory.	

# 7 Licenses

There are two ways of licensing in MyQ. The one that has been used so far (old licensing model), with separate keys for each license, and the new MyQ X licensing model -in use since MyQ Server 8.0 (patch 4)-, that introduced the use of an Installation Key per MyQ setup.

This topic discusses the following subjects:

- how to add and activate licenses
- how to delete licenses
- how to extend software assurance licenses
- how to migrate old licenses to MyQ X
- VMHA License

### 7.1 Adding licenses

You can add new licenses either on the **Home** screen during the initial setup of MyQ, or anytime on the **License** settings tab.

After activation, the license is linked with the hardware configuration of the server where MyQ is installed. If the configuration changes (for example after you reinstall MyQ on a different server or after you change any of the hardware components of the server), the license becomes invalid and you have to reactivate it within seven days.

The total number of devices allowed to be activated at the same time is equal to the number allowed by your purchased licenses (For example: a license allowing ten printing devices + a license allowing one printing device + a license allowing five printing devices = sixteen printing devices allowed to be activated).

Non-MFPs printers are automatically assigned with an Embedded lite license (2x non-MFPs printers = 0,5 EMB lite + 0,5 EMB lite = 1xEMB license).

Having licenses for 40 printing devices automatically allows an unlimited number of printing devices to be activated at the same time on the server. This does not apply to embedded terminal licenses.

### 7.1.1 Adding licenses on the Home screen

The first time you set up the MyQ system, you can add new licenses on the **Home** screen, in the **Enter license** section, under the Quick Setup Guide.

### 7.1.2 Adding licenses on the License settings tab

On the **License** settings tab, you are asked to enter the following information about your installation:

- Company Your company's name
- Person Your full name (e.g. the MyQ administrator's name)
- Address The company's address
- Country Select the country from the drop-down

- Email Your email address
- **Phone** Your phone number (optional)

Company: *	Company X
Person: *	John Doe
Address: *	Sandbox Lane 1234
Country: *	Czech Republic
Email: *	test@email.com
Phone:	
rnone.	
Fields marked by * a	re mandatory.
Fields marked by * a	

Then, enter your Installation key in the **Insert the installation key** field and click **Save,** and then **Activate**.

- If you are connected to the internet and you have used an Installation key, your licenses are now added and activated.
- If you have used license keys, your licenses are added but need to be activated. Follow the activation steps below.
- If you want to manually activate your licenses, see the steps below.
- If you haven't purchased any license or installation keys yet, you can register in the MyQ Community portal and request for the free **MyQ SMART** license.

You can see the newly added licenses on the License settings tab, under License.

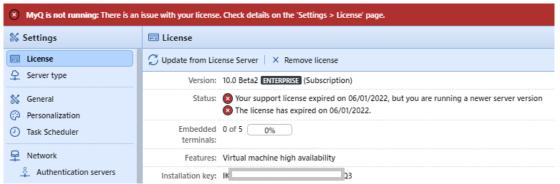
If you are using a subscription license, you can see when the subscription is expiring or when it is going to be automatically prolonged:

License	
💭 Update from Lic	ense Server   × Remove license
	10.0 Beta2 ENTERPRISE (Subscription)
	✓ The subscription will be automatically prolonged on 25/02/2022.
Embedded terminals:	
Features:	Virtual machine high availability
Installation key:	3

10 days before the expiration, a banner message appears on the interface, reminding you to prolong your subscription:

"Your subscription is about to expire soon, all services will stop in 10 day(s). Please prolong your subscription"

If you don't prolong it on time, your licenses will expire and MyQ will stop working. The following banner message is displayed: "*MyQ is not running: There is an issue with your license. Check details on the 'Settings > License' page*."



If the MyQ server cannot connect to the License server:

- After the first unsuccessful connection, the MyQ server starts displaying the alert banner "MyQ server cannot connect to License server, subscription cannot be prolonged and all services will stop in X days. Check internet connection and try to connect manually". X = number of days until the expiration + 10.
- If the MyQ server can't connect to the License server for 10 subsequent days after the subscription has expired, the MyQ server will stop working and display the alert banner "Server stopped working, because it cannot reach License server to update the subscription. Check internet connection and try to connect manually."
- If you have more than one Embedded licenses and you are using them, for example, as 3 Embedded lite licenses, the status bar in your Licenses overview will show that you are using one Embedded license, since the number is rounded down.

# 7.2 Activating Licenses

The HTTP Proxy Server setting for license activation is not supported for License Keys generated on the MyQ X Partner portal. Manual (offline) activation must be used instead.

Installation Keys are automatically activated as soon as they are added (if connected to the Internet).

### 7.2.1 To manually activate a license:

If you are using the old licensing model (with license keys):

- 1. Generate the *MyQ-helpdesk .zip* file. For information about how to do this, see Generate data for support.
- 2. Send a request for an activation key to license@myq-solution.com with the *MyQ-helpdesk.zip* file attached. You will get an email response with the generated activation key.
- Go to the License settings tab. Under License, click Activate manually (or right-click the license, and then click Activate manually on the shortcut menu). A dialog box for entering the activation key appears.

License keys			
↔ Enter license   ▷ Activate ▷ Activate manually ▷ A	ctivate all 🛛 🗙 Delete		
License key	Count	Status	Support
50     FA2       Trial license     Edition: SMART       Initial support: 2 months, Standard support	Unlimited	OK, activate by 03/05/2022 Expiration date: 04/04/2022	✓ Standard support. The support will expire on 04/02/2022. Manage support

4. In the dialog box, enter the received activation key, and then click **OK**. Your license is now activated.

If you are using the new licensing model (with Installation Keys):

 Go to the MyQ Web Administrator interface, in MyQ, Settings, Licenses. Add your Installation Key and click Next. Click Activate. The online activation fails and you get the following message. Click on Manual activation. Installation Activation ×

Connection to the License Server failed. Check the Internet connection.				
	Try again	Manual activation		

- 2. In the newly opened window, click on **Download the activation request file.**
- 3. Upload the file in the MyQ X Partner portal and download the activation response file.
- 4. Go back to the MyQ Web Administrator interface, upload the activation response file and click **Activate**. Your license is now activated.

<ol> <li>Download the activation request file.</li> <li>Activate the installation through the Licensing Portal.</li> <li>Upload the activation response file:</li> </ol>
<ol><li>Unload the activation response file:</li></ol>
si opioda the deditation response men
:trator\Desktop\download.zip Browse



To delete a license:

On the **License** settings tab, under **License**, select the license that you want to delete and click **Delete**. (Or right-click the license, and then click **Delete** on the shortcut menu.)

€ Enter license   ▷ Activate ▷ Activate manually ▷ Activate	te all 🛛 🗙 Delete	2	
License key	Count	Status	Support
50FA2 Trial license Edition: SMART Initial support: 2 months, Standard support	Unlimited	OK, activate by 03/05/2022 Expiration date: 04/04/2022	✓ Standard support. The support will expire on 04/02/2022. Manage support

# 7.4 Extending software assurance licenses

You can extend the software assurance period by assigning a software assurance license to the particular main license. This can be done at any time, even before your current assurance period expires. In this case, the service is extended from the last day of validity of the current software assurance license.

# 7.4.1 New licensing model (with Installation keys)

You can order to prolong your software assurance on the MyQ X Partner portal. Once your order is approved, go to the MyQ Web Administrator interface, in **MyQ**, **Settings, License** and click the **Update from License Server** button to update your prolonged Software Assurance license. If the new date is not displayed, refresh the webpage.

🔜 License	
💭 Update from Lic	ense Server × Remove license
Version:	10.0 Beta2 ENTERPRISE
Status:	$\checkmark$ Standard support. The support will expire on 31/03/2022.
Embedded terminals:	0 of 5
	Virtual machine high availability
Installation key:	

#### **Manual activation**

- Once your additional licenses order is approved, go to the MyQ Web Administrator interface, in MyQ, Settings, License, and click the Update from License Server button. Since there is no network, you will be prompted to Download the activation request file.
- 2. After you download the file, go to the MyQ X Partner portal, under your Project, in the Installations tab. Click **Offline activation**.
- 3. In the pop-up window, upload the *offlineActivation.zip* file you downloaded from the MyQ Web Administrator interface, and click **OK**. The activation response file is then automatically downloaded.
- 4. Go back to the MyQ Web Administrator interface, upload the activation response file and click **Activate**. Your additional licenses are added and activated.

# 7.4.2 Old licensing model (with license keys)

The licenses can be extended on the **License** settings tab.

- 1. On the **License** settings tab, under **License**, click **Manage Support**. The license properties panel opens on the right side of the screen.
- 2. On the panel, click **+Add support license**. The Add support license dialog box appears. You have to manually activate the license, as described below.

50		jΕ		×
Support				
$igodoldsymbol{ o}$ Add support license $\mid$ $ imes$ [	Delete			
License	Status	From	Till	
The list is empty				

#### **Manual activation**

- 1. Generate the *MyQ-helpdesk.zip file*.
- 2. Send a request for an activation key to license@myq-solution.com with the *MyQhelpdesk.zip* file attached. You will get an email response with the generated activation key.
- 3. Add the support license key in the Activate support license dialog box, select the **Activate manually** option, enter an activation key, and then click **OK**.

### 7.5 Migrating old licenses to MyQ X

If you are using older MyQ editions, it is recommended to migrate your licenses to MyQ X.

Compared to older editions, MyQ X offers a new price list with updated and new functionalities, one Installation key containing all the license information instead of multiple license keys, a fast and automated license ordering process, and a complete overview in the MyQ X Partner portal of all the products and their software assurance.

Moreover, if you use embedded lite licenses, during the license migration to MyQ X, their price is halved (two embedded lite = one embedded license). If you have an odd number of embedded lite licenses, the total is rounded up, and then halved (eleven lite = twelve lite = six embedded licenses).

The software assurance expiration date is recalculated during the migration:

- Expiration dates are converted to a real number and the average is computed. (for example, you have 100 x Embedded (E) and 200 x Embedded Lite (EL) | so 100 x 'expiration date' of (E) + 200/2 x 'expiration date' of (EL)) / count of ((E) + (EL/ 2))
- 2. The computed average is a real number and, converted back to the date format may produce, for example, *23h:56min* for this reason 1 day is added.

3. From the average corrected date, only the month + year are used, without day + time, and one month is added to the final date.

License Type	Pcs	Software Assurance Expiration	SA Days till Expiration (from today, 5.10.2020)	SA Days of all Pcs
Embedded	40	04.11.2020	30,00	1 200,00
Embedded	10	28.07.2021	296,00	2 960,00
Embedded	8	19.12.2021	440,00	3 520,00
Embedded	1	20.02.2022	503,00	503,00
TOTAL of Embeddeds	59			8 183,00
Lite	10	04.11.2020	30,00	300,00
Lite	1	19.12.2021	440,00	440,00
TOTAL of Lites	11			740,00
Round up to an even number of Pcs	12			807,27
Coversion of Lites to Embeddeds (2-in-1)	6 🗖			403,64
TOTAL Enterprise & Support	65	14.02.2021	132,10	8 586,64
FINAL Enterprise & Support	65	01.03.2021	<b>~</b>	

The prerequisites for license migration are:

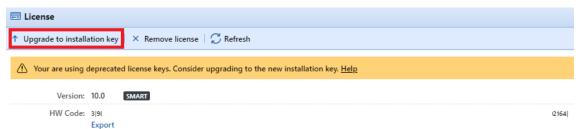
- MyQ Print Server or MyQ Central Server 8.2 or higher installed (valid support required).
- Valid support required; support date for version 8.2 is 15 January 2021, but it is recommended having valid support all the time, especially when there are planned system changes and MyQ Helpdesk would be contacted.
- Access to the MyQ X Partner portal (Partner ID and password. If you do not have access, contact your Sales representative).

With the above prerequisites fulfilled, you can start the Migration Process.

### 7.5.1 Migration Process

You can start the license migration process in the MyQ web administrator interface.

Go to MyQ, Settings, License. At the top bar, click Upgrade to installation key.



The Upgrade to installation key wizard starts, guiding you through the upgrade:

1. If you already have an Installation Key, click **Yes** and continue to step 4. If not, click **No**.

Upgrade to installation key	×
Do you have the new installation key?	
Yes No	
	Do you have the new installation key?

2. The MyQ server will now export the *MyQ-licenses.xml* file. You need this file to generate the new installation key at the MyQ X Partner Portal. Click **Next**. Upgrade to installation key ×

MyQ server will export MyQ-lice	enses.xml file. You key at MyQ Pa		le to generate a new installation
	← Back	→ Next	

3. The *MyQ-licenses.xml* file has been downloaded. Go to the MyQ X Partner portal and follow the process to generate a new installation key. Once you generate it, your old license keys cannot be used again.

opgrade to instantion ke	· <b>y</b>		
XML file has been downloaded.	Go to the MyQ P a new insta		d follow the process to generate
	← Back	→ Next	)

4. Back in the MyQ web administrator interface, insert the installation key in the field, and click **Next**.

Upgrade to installation key		×
	Enter the installation key	
	← Back → Next	

- 5. MyQ is contacting the License server to get the license information. In case you have no internet connection, click **Manual activation** to manually activate the license.
- 6. Check the overview and if everything is correct, click **Activate**; otherwise, click **Cancel**.

Installation Activation	×
Installation: Perpetual test	
Installation key: II	
MyQ X Enterprise Edition: 5	
() This installation will be activated and bound to this server.	
Cancel	

7. Your license keys were successfully upgraded to an installation key and are now activated.

Upgrade to in	stallation key	×
Your license	e was successfully upgra	aded
	🗸 ок	

You can see your new licenses overview in the License settings tab.

If the activation fails due to connection issues, or for any other issues with the migration, contact MyQ Support.

# 7.6 VMHA License

Normally, the hardware signature of the server hosting MyQ is occasionally verified to make sure that the license is still installed on the same server and isn't misused. In certain scenarios, the underlying hardware may change and so a license reset is required to re-activate the license. If the hardware changes often (which is common when the server is hosted in a virtual environment), the Virtual Machine High Availability (VMHA) feature may be required.

- The VMHA license is included free of charge in MyQ Enterprise and MyQ Ultimate 8.0+ licenses.
- For the VHMA feature to function, a domain environment is mandatory the server running MyQ must be a member of a domain. For MyQ installed in an MS Azure environment, a domain is not required. Changing the domain or migrating to a completely different server will still require a license reset.

#### To verify that the VHMA feature is available, go to MyQ, Settings, License.

With old license keys, once the VMHA license is registered and activated, you can enable the VMHA feature in **MyQ**, **Settings**, **Network**. Once enabled, the license verification mechanism will no longer check for changes in the hardware when checking the HW license signature key.

With the new licensing model, with installation keys, VHMA is enabled by default in a Print Server or Central Server setting. If you are using Site servers, you have to enable the feature in each Site server.

# 8 Printers

This topic discusses one of the key functions of MyQ — setup and management of printing devices. It covers the following subjects:

- Printers and Terminals settings.
- Overview, adding, activating and deleting printing devices: List of printing devices, Manually adding printing devices, Discovering printing devices, Activating and deactivating printing devices, Deleting and undeleting printers.
- Individual device settings, creating groups of printing devices and exporting the list of printing devices: Editing printers, Printer Groups, Exporting printers.
- Monitoring of offline and local printing devices: Monitoring network printers in offline mode, Monitoring local printers.
- Sending email notifications of printing device alerts: Printer Events.
- Creating and assigning SNMP profiles: SNMP profiles.

Printers	Q All									📀 Add p	rinter 👻 🦻	Actions +
Q Searches	Status	Issues	Name	Model	c	м	Y	к	B&W prints	Color prints B	I&W copies	Color copies
Q All	Ready	A Input: Media supply empty [1]	ECOSYS M3540dn 7	ECOSYS M3540dn				119%	48538		694	
Q Active	Ready		-			-	-	-			034	
Q User session		Input: Media supply empty [2]	ECOSYS P8060cdn_5	ECOSYS P8060cdn	82%	84%	81%	83%	7171	12170	0	0
Q With issue	Ready		EPSON WF-C20750 Series_8	EPSON WF-C20750 Series	89%	100%	90%	91%	1356	404	1164	99
Q Re-activation required	<ul> <li>Ready</li> </ul>		HP Color LaserJet MFP M480_9	HP Color LaserJet MFP M480	95%	95%	95%	90%	129	10	0	0
Q Local	<ul> <li>Ready</li> </ul>		RICOH MP C401_1	RICOH MP C401	90%	90%	90%	70%	508	558	47	39
Q Unclassified	<ul> <li>Ready</li> </ul>		TASKalfa 3252ci_3	TASKalfa 3252ci	68%	54%	65%	56%	16875	19774	722	4235
🗊 Deleted	Ready		TASKalfa 356ci_6	TASKalfa 356ci	45%	74%	75%	40%	15237	25639	876	2985
All printers	Ready	Input: Media supply empty [1]	TOSHIBA e-STUDIO2050C_10	TOSHIBA e-STUDIO2050C	65%	67%	71%	60%	4342	2608	266	562

# 8.1 Printers and Terminals settings

On the **Printers & Terminals** settings tab, you can manage your terminal packages, and configure multiple settings. The settings are divided in the **General, MyQ X Mobile Client, Local Print Spooling, Offline Login**, and **Terminal packages** sections.

<b>≡ MYQ</b>	G Settings: Printers & Terminals
% Settings	🗟 Printers & Terminals
License Server type	▶ General
💥 General	► MyQ X Mobile Client
<ul> <li>Personalization</li> <li>Task Scheduler</li> </ul>	Local Print Spooling
₽ Network	► Offline Login
Authentication servers	Save     Cancel Fields marked by * are mandatory.
🕞 Printers & Terminals	
🔯 Configuration Profiles	Terminal packages
Reprinter Discovery	↔ Add 🕸 Upgrade 🛛 Delete   💭 Refresh
Terminal Actions Events	Brand Type Version Port Status
Event Actions	The list is empty
O Users	

### 8.1.1 General

In this section, the following settings are available:

▼ General			
Keep printi	ting after logging out:		
	5 55 5 🖂		
Allow a color jo	job on a B&W printer:		
-			
Print all	l jobs after logging in:		
· Ko	on printing offer logging out life and	blad all jobs sequested for seleas	~

- **Keep printing after logging out** if enabled, all jobs requested for release will be released even if the user logs out. If this option is disabled, then once the user logs out from the terminal:
  - the releasing of the requested jobs to the printer will be stopped.
  - not yet released jobs will be returned to the Ready status.
  - the terminal will also try to stop all already active print jobs (if this operation is supported by the terminal).
- Allow a color job on a B&W printer if enabled, color jobs can be printed on B&W printers.
- Print all jobs after logging in if enabled, a Print all jobs after logging in checkbox is displayed on the terminal's Log in screen, and it is selected by default. If the user keeps it selected, all their jobs from the **Ready** tab are automatically printed as soon as they successfully log in. If the user disables the option, no jobs are printed automatically upon login.

To enable any of the settings, select the checkbox next to them, and click **Save** at the bottom of the tab.

### 8.1.2 MyQ X Mobile Client

In this section, you have the following options:



- Enable login by QR code on terminal login screen if enabled, a QR code is displayed on the terminal login screen and can be used to log in (enabled by default).
- Set QR code as default login method if enabled, a QR code is displayed on the terminal login screen and is the default method for logging in.

### 8.1.3 Local Print Spooling

In this section, you can enable the Local Print Spooling feature for your embedded terminals, and set it up.

Local Print Spooling
al Print Spooling allows printers with the Embedded Terminal to receive print jobs and securely release them when user logs in. This significantly lowers network ffic to the MyQ server.
Enabled:
Delete ready jobs older than: * 12 hours
Pull Print: 🔽
• Enabled - enable/disable the Local Print Spooling feature (disabled by

- Enabled enable/disable the Local Print Spooling feature (disabled by default).
- **Delete ready jobs older than** <u>hours</u> period of time after which the locally spooled jobs are deleted. The default is *12* hours, and the allowed range is *1* to *72*.
- Pull Print if enabled, you can use Pull Print printing.

# 8.1.4 Offline Login

Offline Login allows to use printers with Embedded terminals even if the network connection to the MyQ server is unavailable. In this section, you have the following settings:

▼ Offline Login	
Offline Login allows to use printers with	the Embedded terminal even if the network connection to the MyQ server is unavailable.
Enabled:	
Cache user credentials for: *	72 hours
	User Synchronization
<ul> <li>Enabled - enabled</li> </ul>	le/disable the <b>Offline Login</b> feature (disabled by default).

- Cache user credentials for \_\_ hours the terminal caches user credentials for the given time, allowing them to log in while offline. The default is 72 hours, and the allowed range is 1 to 168.
- **User Synchronization** if enabled, the users information can be synchronized to printers without the need for the user to log in to the printer first.

Offline Login - User Synd	chronization	×
Enabled: Update interval: 0	hours	
	✓ Save Cancel	
🕒 Add 🧷 Edit   × Dela	ete	
Printers	Users	
Printers	▼ Users	•
	OK Cancel	

- Enabled enable/disable offline login user synchronization.
- **Update interval** set the interval of user synchronization between *1* and *168* hours.

• **Add, edit, delete** printers and users - configure the printers and users for the offline login user synchronization.

### 8.1.5 Terminal packages

In this section, you can manage your terminal packages.

Click +Add to upload a terminal package to the server. In the pop-up window, browse and open the terminal package, and click OK. You can optionally select Advanced settings to set a specific Port for the terminal. The terminal package is uploaded and installed. (Note that the terminal package service will automatically run under the Local System Windows account. To change it, go to MyQ Easy Config, in the Settings tab.)

Install terminal package	×
Terminal package service will automatically run under Local System Windows account. To change it, please re-configure the Windows Services Account in MyQ Easy Config application.	
Terminal package: * Choose File No file chosen Advanced settings Port: * 8081	
Terminal package will receive requests from the printer on this TCP port	
🕒 Add 🕸 Upgrade 🛛 🗙 Delete 🛛 🃿 Re	fresh

 If you are trying to add a later version of the same terminal package, a popup informs you that you can upgrade your installation. Click **Yes** to continue. The terminal package is uploaded and installed, and the device is automatically reactivated. (*MyQ Server 8.2 patch 6 or higher is required*)

?		sion 8.1.0.113 of this package is already installed you want to upgrade? Yes No			

• Select an installed terminal package and click **Upgrade** to upgrade it to the latest version. In the pop-up window, browse and open the terminal package,

and click **OK**. You can optionally select **Advanced settings** to set a specific **Port** for the terminal. The terminal package is uploaded and installed, and the device is automatically reactivated. (*MyQ Server 8.2 patch 6 or higher is required*)

regun	24)					
Termina	al packages					
🕀 Add	皎3 Upgrade	$ imes$ Delete $\mid$ $\bigcirc$ Refresh				
Brand		Туре	Version	Port	Status	
		Embedded: REST API	8.1.0	8081	Installed	
_	Upgrade ter	minal package		×		
	Terminal package: * Choose File No file chosen Advanced settings Port: *					
	8081 Terminal package will receive requests from the printer on this TCP port					
	Fields marked by		ancel	- 1		
			_	_		

• Select an installed terminal package and click **Delete** to uninstall it from the server.

Termin	al pack	ages			
🕀 Add	ស៊្វ Up	ograde 🔀 Delete 📿 Refresh			
Brand		Туре	Version	Port	Status
		Embedded: REST API	8.1.0	8081	Installed
	MyQ			×	
	wiyq			-	
	?	Do you want to delete the selecte	ed items?	- 60	
		Yes No		- 64	
	-	_	-	_	

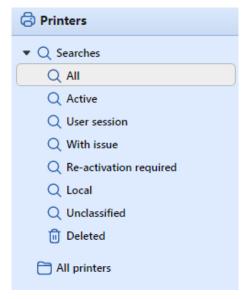
For specific terminal packages information and limitations, check the embedded terminal manuals:

- MyQ Canon Embedded
- MyQ Epson Embedded
- MyQ HP Embedded
- MyQ Kyocera Embedded
- MyQ Lexmark Embedded
- MyQ Ricoh SmartSDK Embedded
- MyQ Sharp Embedded
- MyQ Toshiba Embedded
- MyQ Xerox Embedded

# 8.2 List of printing devices

On the **Printers** main tab, you can see printing devices and information about them. With the **All** search option selected, you see all printing devices that are currently in the system. Apart from this option, you can select from the following:

- Active select to display only active printing devices
- User Session select to display only printing devices that are currently in use
- With issue select to display only printing devices with a reported issue (these printers are also listed on the **Home** page)
- **Re-activation required** select to display the printing devices that must be activated again
- Local select to display only locally connected printing devices (USB, LPT)
- **Unclassified** select to display only printing devices that do not belong to any group
- Deleted select to display only deleted printing devices



# 8.3 Manually adding printing devices

To manually add a device:

- 1. On the **Printers** main tab, click **+Add printer**. A drop-down box appears.
- 2. In this drop-down box, click **+Add printer**. The new printing device properties panel opens on the right side of the screen.
- 3. On the panel, enter the device name and IP address, and then click Save.

# 8.4 Configuration profiles

A configuration profile is used for multiple printers configuration. It is where you can add an installation package and attach it to printers to equip them with embedded terminals.

It is recommended to create a configuration profile per printer type if you have different printer types.

For a quicker setup you can clone your configuration profiles. With minimal editing you can then create a new profile. Printers will not be cloned to this new configuration profile. Go to **MyQ**, **Settings**, **Configuration Profiles**, select a configuration profile and click **Clone** on the menu bar (or right click and clone).

Configuration profiles are needed for printer discovery.

The following settings can be configured:

#### **General tab**

🕸 Profile 1	×
General Terminal Print	ters
Name: * Price list: Fax module:	Profile 1
<ul> <li>Printer Credentials</li> </ul>	
These credentials are used to c of each printer.	onfigure the printer. You can override these defaults in the properties
Administrator user name:	
Administrator password:	
▼ Network	
SNMP profile:	Default
MyQ server address: *	Hostname:
	Set up IP filters
	Cancel
Fields marked by * are mandat	0.00

- Name It is mandatory to give the profile a name.
- **Price List** Select a price list from the drop-down. For more information on price lists, see Price List.
- **Fax module** If selected, all printed faxes are charged on the FAX user account. It is available only for devices with the FAX option. Select only if the device has a fax module.
- **Printer Credentials** The credentials are used to configure the printer(s) attached to the profile. You can override the defaults with the **Printer Credentials** in the properties of each printer.
- Network Here you can add an SNMP profile: see SNMP profiles, and in MyQ server address select if the network should use the IP address or the Hostname (Hostname is used by default).

#### **Terminal tab**

Profile 1		×
General Terminal Prin	iters	
Terminal type: *	None	•
	Install terminal package	
	✓ Save Cancel	
Fields marked by * are mandat	top	

- **Terminal type** Select a terminal type from the drop-down. If the type you want is missing, click **Install terminal package**. Once the package is installed, select it from the drop-down.
  - **Copier operation panel idle time**: time (in seconds) for idle logout (mandatory field).
  - **Automatic configuration**: leave this option unchecked if you want to configure the device manually.

#### Printers tab

	竣 Profile 1	×
Search	General Terminal Printers	
	↔ Add	
Cancer	Name	

Click Add to add printers to the configuration profile from your printers list.

Select the added printers and click **Remove** to remove them from the configuration profile.

#### **Additional options**

The following options become available according to the installed terminal package. It depends on brand and model if they will function on your printer:

- Login methods
- Guest Account
- Guest screen
- Local administration PIN
- Language selection
- Display numeric keypad
- ID Card reader type

### 8.5 Discovering printing devices

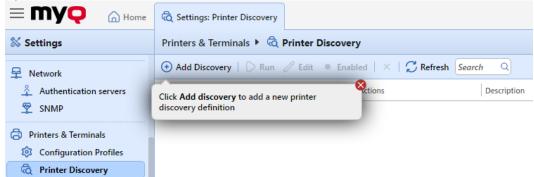
On the **Printer Discovery** settings tab, you can create and run print discoveries to search for all network printing devices within a defined IP range of your company's network. You can create multiple discoveries for different subnets.

### 8.5.1 Automated printer discovery

It is possible to add an **Action** to your printer discovery. In that way you can add a **Configuration profile** to your printer discovery, or select to activate the discovered printers when you **Run** the printer discovery.

To add a print discovery, do the following:

- 1. On the **Home** tab, click **Discover printers** in the **Quick Setup Guide** section (or go to **MyQ**, **Settings**, **Printer Discovery**).
- 2. On this tab, click **Add Discovery**. The new printer discovery properties panel opens.



3. On the panel, you can change the **General** discovery configuration (described below).

1. Specify network address space to scan for	a Printer Discover	У		×
printers. 2. Optionally, in the Actions tab define actions to	General Actions			
be performed when a printer is added to MyQ	Enabled: *			
	Description:			
	IP range:	Manual		
		10.0.3.0	10.0.3.255	×
		169.254.0.0	169.254.255.255	×
		🕀 Add		
		O CSV file		
	Exclude:	(+) Add		
	Save the printer	IP address 🔻		
	address as: *			
	Initiated by terminal:	When an embedded terminal of	connects to MyQ and there is no p	vinter
		with the same IP address, MyQ	will execute a Printer Discovery	
		address range matches the IP a	address of the terminal.	
	Printers name tem	plate		
	► SNMP			
		✓ Save C	ancel	
	Fields marked by * are ma	ndatory.		

- 4. You can also set special **Actions** to be performed during the discovery; see Printer discovery actions.
- 5. Click **Save**. The new printer discovery appears on the list on the **Printer Discovery** settings tab.

# 8.5.2 To run a discovery and add printing devices:

On the **Printer Discovery** settings tab, select the printer discovery that you want to use, and then click **Run**.

1. Select a printer discovery defi 2. Click Run to start the discover		
+ Add Discovery   D Run	P Edit • Enabled   ×   C Refre	esh Search Q
Enabled IP range	Actions	Description
• 10.0.3.0 - 10.0. 169.254.0.0 - 1	3.255 Actions: 0 69.254.255.255	Discovery 1

The Discovering tab with a list of discovered printing devices opens. You can choose to add either all of the discovered devices or just a selection of them:

- If you want to add all discovered devices, click +Add to MyQ, and then click +Add all in the drop-down. You can see the added printing devices on the Printers main tab.
- If you want to add selected devices, select the devices that you want to add, click **+Add to MyQ**, and then click **+Add selected**. You can see the added printing devices on the **Printers** main tab.

### 8.5.3 Printer discovery general configuration

The configuration options mentioned below are basic and commonly used options of printer discovery. Options that are not mentioned here are connected with advanced MyQ features. You can find information about those options in the MyQ Embedded terminal manuals.

a Discovery 1			
General Actions			
Enabled: *			
Description:	Discovery 1		_
IP range:	<ul> <li>Manual</li> </ul>		
	10.0.3.0	10.0.3.255	×
	169.254.0.0	169.254.255.255	×
	(+) Add		
	O CSV file		
Exclude:	(+) Add		
Save the printer address as: *	IP address ▼		
Initiated by terminal:			
	with the same IP address	ninal connects to MyQ and there is no pr 5, MyQ will execute a Printer Discovery w s the IP address of the terminal.	
<ul> <li>Printers name tem</li> </ul>	plate		
Set printer name by: *	<ul> <li>Name template</li> <li>CSV file</li> </ul>		
Name template: *	%model%_%id%		
		6ipByte4%, %sn%, %id%, %hostname%, 2DN%	
▼ SNMP			
SNMP profile:	Default 🔻		
SNMP timeout:	300 ms		
	✓ Save	Cancel	

- **Enabled**: If you enable the discovery, it is included in the scheduled run of print discoveries.
- **Description**: Here you can add your own description of the discovery.
- IP range:

Fields marked

- MyQ automatically detects the IP range from the IP address of the server.
- If you want to use a different IP range, you can either manually change it or import it from a CSV file.
- You can add additional IP ranges by clicking **+Add** under IP range.
- You can delete IP ranges by clicking the delete button.
- You can exclude particular IP addresses by clicking **+Add** next to **Exclude**.
- Save the printer address as: Here you can select if you want to save the printing device address as an IP address a Hostname or a FQDN.
- Initiated by terminal: Check this box when you have Java based terminals that need to be setup. Java based terminals can be installed and configured on the printer manually without a need to create a printer in MyQ and execute Remote Setup. When an embedded terminal connects to MyQ and there is no printer with the same IP address, MyQ will execute a Printer Discovery whose

IP address range matches the IP address of the terminal. This feature is supported only by older Java terminals 7.5 and lower. Newer versions (8.0+) do not have the option to manually configure the server's IP/hostname on the device itself to initiate remote setup via printer discovery with this action enabled.

- **Printers name template**: You can create a name template for each of the discovered printing devices; multiple parameters can be used to compose the name of the new device:
  - **%model%**: Model of the printing device.
  - **%ipByte4%**: The last byte of the device's IP address.
  - **%sn%**: Serial number of the printing device.
  - %id%: ID of the printing device in the MyQ database. If the printer name template contains the %id% parameter and you run discovery and add the same printer again, the name will not be updated.
  - **%hostname%**: This parameter corresponds to the hostname resolved by DNS server.
  - %snmpHostname%: This parameter corresponds to the hostname of the printing device set in the MIB table. The value of this parameter is obtained via SNMP protocol within the discovery of each printing device.
  - %FQDN%: Fully Qualified Domain Name of the printer

If you select the CSV file option, you must enter the name of the CSV file as IP address/Hostname or serial number;printer name.

• **SNMP**: Here you can select the SNMP profile and set the SNMP timeout period in milliseconds. This setting determines how long the MyQ system waits for a response from a printing device.

### 8.5.4 Printer discovery actions

The actions mentioned below are basic actions that are commonly performed during printer discoveries.

Go to the **Actions** tab and click **+Add action**. The Actions properties panel opens.

Actions	X
▼ Filter	
Model:	
	Use a comma to separate multiple models
Color:	[Does not matter] 🔻
Copier:	[Does not matter] 🔻
<ul> <li>Every run actions</li> </ul>	
• Every run actions	
Add to queue:	· · · · · · · · · · · · · · · · · · ·
Set configuration profile:	No terminal 💌
Add printer to group:	
Remove current groups:	
Location:	
	Parameters: %location%
<ul> <li>First run actions</li> </ul>	
Activate:	
Create direct queue:	
Copy settings from the	
queue:	
Print test page: Print as:	
Windows printer	
F	
	Cancel
Fields marked by * are mandatory.	

#### Filter

Here you can specify the printing device models or the types of devices on which this action is performed during the discovery.

- Enter the model on which you want to perform the action. If you want to add more models, you have to separate them by commas (,).
- You can also select types of devices: color or B&W devices, and distinguish between copiers.

#### Every run actions

- Add to queue: Here you can select one or more queues where the device will be automatically added to.
- Set configuration profile: Here you can select a configuration profile from the dropdown or create a new one by selecting **+Add new**. It gives you the option to install a terminal package and set the login method for the printers in the discovery.
- Add printer to group: Here you can select a group where the device will be automatically added.

- **Remove current groups**: If you select this option, the device is removed from all of its current groups.
- **Location**: Here you can set the location of the printing device. There are three options:
  - You can manually define the location by entering any text. Each printing device discovered or updated within this printer discovery will contain this location.
  - You can automatically obtain the location via SNMP protocol by entering the %location% parameter. In such cases, the location is taken from the location parameter defined on the Web User Interface of each particular device discovered or updated within this printer discovery.
  - You can leave this setting empty. In this case, the location of the printing device is not set/updated during the discovery. Updated printers maintain their current location and new printing devices have the location parameter undefined.

The location of a printing device is displayed and can be changed on its properties panel.

You can add multiple filters for performing discovery actions: every filter specifies the type of printers the actions will be performed on and which actions will be included.

#### First run actions

- **Activate**: Automatically activates the device if the current license allows it.
- **Create direct queue**: If you select this option, MyQ will automatically create a direct queue for the device. The name of the queue is the same as the system name of the device. For more information about print queues, see Queues.
- **Copy settings from the queue**: Here you can enter or select a direct queue from which the settings of the newly created queue are copied.
- **Print test page**: The MyQ server will automatically send a test page to the newly created direct queue.
- **Print as**: If you select the **Print test page** option, you have to select a user account under which the test page will be printed.
- **Windows printer**: In this section you can automatically install a print port and printer driver on the MyQ server.

# 8.6 Activating and deactivating printing devices

Unless it was automatically activated during printer discovery, a newly added device is not active in MyQ and some of its data is not displayed (its serial number, type, counters, etc.). The next step is to activate the device. Although there is no limit to the number of printing devices you can add to the MyQ system, you cannot activate more printing devices than your license allows.

#### To activate selected printers:

1. After selecting the printers, right-click and click **Set configuration profile**. A pop-up window with the same name opens.

Set configuration profile	×
Assign a configuration profile for the selected printers. You select printer(s).	ted 1:
Configuration Profile:	)
V OK Cancel	

- 2. Select a profile from the drop-down and click **OK**.
- 3. With your selection still intact, right-click once more and select Activate.

#### To activate all printers:

- 1. On the bar at the top of the **Printers** main tab, click **Actions**. The Actions dropdown appears.
- 2. Click Activate all.

🕂 Add printer 🔻	🖗 Actions 🗸 🗎 🖻 Tools	👻 🔯 All columns 👻
Serial number C	<ul> <li>Properties</li> <li>Set configuration pro</li> </ul>	Color
	Activate	
	Activate all     Force configuration a     Deactivate	and re-activate
	Show event history Print OR code	
	Create direct queue	
	Remove from group	
	× Delete	Delete
	Select all	Ctrl+A

#### To deactivate printing devices

- 1. On the list of printers on the **Printers** main tab, select the devices that you want to deactivate, and then click **Actions**. The Actions drop-down appears.
- 2. In the drop-down, click **Deactivate**.

### 8.7 Deleting and undeleting printers

If you delete a printing device, you will not be able to use it, but its data will be permanently stored in the MyQ database.

It is not possible to add the same device twice as its MAC address is unique and there cannot be two devices with an identical MAC address in the system. If you want to use the deleted device again, you have to undelete and reactivate it.

# 8.7.1 Deleting printers

To delete selected printing devices:

- 1. Select the printing devices you want to delete from the list on the **Printers** main tab.
- 2. Click **Actions**. The Actions drop-down appears.
- 3. Click **Delete**. You can find the deleted printing devices under the **Deleted** search option.

🕀 Add printer 🔻	🖗 Actions 🗸   🖻 Tools 👻 🕼 A	All columns 🔻
Serial number C	<ul> <li>Properties</li> <li>Set configuration profile</li> </ul>	Color
0	<ul> <li>Activate</li> <li>Activate all</li> <li>Force configuration and re-act</li> <li>Deactivate</li> </ul>	ivate
	<ul> <li>Show event history</li> <li>Print QR code</li> <li>Create direct queue</li> <li>Log</li> </ul>	
	Remove from group	elete
	Select all C	trI+A

### 8.7.2 Undeleting printers

To undelete selected printing devices:

- 1. On the group tab on the left side of the **Printers** main tab, under **Searches**, select the **Deleted** search option. The list of deleted printing devices appears.
- 2. On the list, select the printing devices that you want to undelete, and then click **Actions**. The Actions drop-down appears.
- 3. In the drop-down, click **Undelete**. The undeleted printing devices are not active; you have to activate them again.

🕀 Add printer 🔻	🖗 Actions 💌 🖻 Tools 💌	🕸 All columns 🔻
erial number C	🖉 Properties	Color
0	Set configuration profile	
	Activate	
	Activate all	
	$\bigcirc$ Force configuration and	re-activate
	Deactivate	
	Show event history	
	Print QR code	
	Create direct queue	
	🖉 Log	
	Remove from group	
	$\times$ Delete	Delete
	🕤 Undelete	
	Select all	Ctrl+A

# 8.8 Editing printers

Each individual printing device has its own properties panel. To open the panel, double-click the printing device on the list of printing devices on the **Printers** main tab. The properties panel opens on the right side of screen. There you can **Deactivate** it or perform some specific **Actions** on this printer.

The panel is divided into four tabs: **General, Groups, Queues** and **Rights**. On the **General** tab, you can change the printing device settings, on the **Groups** tab, you can add the device to groups, on the **Queues** tab, you can add the printing device to queues and on the **Rights** tab you can give user rights to the device.

G Office Printer		Actions 🔻 🗙		
General Groups Queues Rights				
▼ General				
* General				
Name: *	Office Printer			
Location:				
IP address/Hostname: *	10.12.10.123			
Scanner IP address:				
Fiery IP address:				
Use driver of model:	[			
▼ Configuration				
Configuration Profile: *	No terminal	•		
Administrator user name:				
Administrator password:	[			
► Information				
▼ Toner capacity				
Cyan toner:				
Magenta toner:				
Yellow toner:				
Black toner:				
Page Counters				
✓ S	ave Cancel	)		
Fields marked by * are mandatory.				

# 8.8.1 Printer information and settings

The settings mentioned below are basic printer settings displayed on each printer's properties panel.

**General section** 

- Name\* Name of the printing device, any string can be used.
- Location If it is required, you can specify the location of the printing device here.
- IP address/Hostname\* The IP address or hostname of the printing device.

- **Scanner IP address** The IP address of the scanner (if the device scanner has a different IP than the printing device).
- **Fiery IP address** The IP address of the Fiery module (if the device is equipped with it).
- Use driver of model Alternative model name. If your printing device is not listed in the current database of supported models, you can enter the type of supported printing device which stands close to your model. For more information, please contact support@myq-solution.com.

#### **Configuration section**

- Configuration Profile Select a profile from the drop-down or create a new one to embed the printer by clicking +Add new. Then add a Name, install the terminal package, set the Login methods and the Printer credentials, as applicable to the printer.
- Administrator user name Enter the admin user name. If you embed the printer separately this user name should match the one in the configuration profile.
- Administrator password Enter the admin password. If you embed the printer separately this password should match the one in the configuration profile.
- For Xerox devices, the administrator user name and password are a mandatory requirement for the device's remote setup and activation (both for devices with embedded terminals and without).

#### Information section

- **Brand** Information about the printing device manufacturer. It is automatically detected from the device.
- **Model** Information about the printing device model name. It is automatically detected from the device.
- **Serial number** The printing device serial number. It is automatically detected from the device.
- **MAC address** The printing device MAC address. It is automatically detected from the device and it is used as a unique identification of the device in the MyQ® system. Therefore, only one device with a particular MAC address can be activated.
- Asset number Additional option for identification of the printing device.
- **Contact** Contact info of the person responsible for the printing device maintenance.
- **Purchase date** Purchase date of the printing device.
- Notes Additional information about the printing device.

#### Toner Capacity section

- **C** Capacity of the printing device CYAN toner.
- **M** Capacity of the printing device MAGENTA toner.
- **Y** Capacity of the printing device YELLOW toner.
- **K** Capacity of the printing device KEY (black) toner.

#### Page Counters section

- **B&W Print** Total amount of B&W pages printed on the device.
- Color Print Total amount of color pages printed on the device.
- **B&W Copy** Total amount of B&W pages copied on the device.
- **Color Copy** Total amount of color pages copied on the device.
- **Single color copy** Total amount of single color pages copied on the device.
- **Scanner** Total amount of pages scanned on the device.
- Fax Total amount of incoming faxes printed on the device
- **Print total counter adjust for load balancing** The entered value is added to the printed pages counter to evenly spread print load between devices in tandem queues.

### 8.8.2 Adding/removing printers to groups

#### To add a printer to a group:

1. On the bar at the top of the **Groups** tab, click **+Add**. The Select group dialog box appears.

🗟 Offic	e Printer	🖗 Actions 👻 🗙
General	Groups Queues Rights	
🕀 Add	- Remove Default	
Name		Default

The list is empty

2. In the **Select group** dialog box, select the groups, and then click **OK**.

Select group	
Search	C
☐ HQ	
Count: 1 $\leftarrow$ Page: 1 / 1 $\rightarrow$ Items per page: 100 (?)	
V OK Cancel	

Printers can also be added to a group on the **Printers** main tab using drag and drop. Drag the printer and drop it on the group icon on the groups tab on the left side of the screen.

#### To remove a printer from a group:

On the bar at the top of the **Groups** tab, click **–Remove**. The group disappears from the **Groups** tab.

To remove selected printing devices from a group on the **Printers** main tab, select the group there, select the printing devices that you want to remove, click **Actions**, and then click **Remove from group** in the **Actions** drop-down (or right-click the printer and click **Remove from group**).

## 8.8.3 Adding/removing printers to queues

#### To add a printer to a queue:

- 1. On the bar at the top of the **Queues** tab, click **+Add**. A search box appears to the left.
- 2. In the search box, find the queue where you want to add the device to, and then click **OK**.

🕾 Tools 🔻 🕸 All columns 👻 🎜 Search 🔍	G Office Printer	🖗 Actions 👻 🗙
figuration profile IP address Serial number C	General Groups Queues Rig	hts
nal Search	र्द्ध Inherited from a group	
	🕒 Add 🕞 Remove 🥒 Edit	
✓ OK Cancel	Name	Туре
	옷 Default	Pull Print
	දි Job roaming	Pull Print
	중 Email	Pull Print
	$\mathcal{S}_{\mathcal{O}}^{\mathcal{O}}$ Job roaming delegated	Delegated printing
	<del>ି</del> Web	Pull Print

#### To remove a printer from a queue:

On the bar at the top of the **Queues** tab, click **–Remove**. The queue disappears from the **Queues** tab.

### 8.9 Printer groups

All printing devices in MyQ can be divided into groups based on their location, model, vendor, category, etc.

On the **Printers** main tab, you can create new groups of printing devices. There are a number of MyQ functions where groups are used, for example, they can be assigned to particular print queues (see Queues), users can be given rights and restrictions concerning particular groups (see Rights) and reports can be set about particular groups only (see Reports).

### 8.9.1 Creating printer groups

 On the left side of the **Printers** main tab, right-click **All printers**, and then click +Add group on the shortcut menu. The new group properties panel opens on the right side of the screen.

≡ myę	Home	ð	Printers	
🗟 Printers				printers
▼ Q Searches			Status	
Q AII			⊖ Ina	ctive
Q Active				
Q User session				
Q With issue				
Q Re-activation r	equired			
Q Local				
Q Unclassified				
间 Deleted				
All printers				
		$\odot$	Add grou	up
		Ø	Edit	

2. On the panel, enter a name of the new group, give rights to users or groups of users, and then click **Save**.

🗟 но	×	
General		
Name: *	HQ	)
▼ Rights		
View printers:	😤 Group_3	•
View in reports:	幋 Group_2	•
	Save Cancel	
Fields marked by * ar	e mandatory.	

#### Printer group rights:

- **View printers**: The right to see and manage printers from this group on the web user interface.
- View in reports: The right to see this group of printers in reports.

(i) If you want the new group to be placed under an already existing group, select the parent group, and then click **+Add Group** (or right-click the parent group, and then click **+Add Group** on the shortcut menu).

### 8.9.2 Deleting printer groups

To delete a group of printing devices:

On the group tab on the left side of the **Printers** main tab, right-click the group you want to delete, and then click **Delete** on the shortcut menu.

# 8.10 Exporting and importing printers

On the **Printers** main tab, you can export the list of printing devices with all the information that are displayed on the current view to a CSV file.

To export the list of printing devices:

- 1. On the toolbar at the top of the **Printers** main tab, click **Tools**; the tools dropdown box appears.
- 2. On the drop-down box, click **Export**.

You can also import a list of printers from a CSV file containing at least the printer's name and IP address. The CSV's header should be **printer;IPAddress**, as seen in the below example:

	А	В	С	D	E	F	G
1	printer	location	IPAddress	scannerIP	terminalID	assetNumber	contact
2	Test		1.1.1.1				
3							

To import the list of printing devices:

- 1. On the toolbar at the top of the **Printers** main tab, click **Tools**; the tools dropdown box appears.
- 2. On the drop-down box, click **Import**.

3.	Browse fo	r your CS	V file and	click <b>OK</b> .					
	Import			×					
	CSV file: Choose File No file chosen								
		🗸 ок	Cancel	)					

Your printers are now imported and visible in the **Printers** tab.

## 8.11 Monitoring network printers in offline mode

The usual way of communication between the MyQ system and a printing device is via SNMP protocol. In case this method cannot be used, for example if the printing device does not support the SNMP protocol, you can use the MyQ parser to monitor

the number of pages and other basic properties of jobs sent to be printed on a printing device. This accounting method is referred to as **Offline accounting**.

A disadvantage of the offline accounting feature is its inaccuracy. Due to the fact that the communication of MyQ and the printing device is one-sided and restricted to sending print data to the device, it is not possible to check if the data is actually printed. Therefore, MyQ charges the print job based on the information from the job parser received after the job is sent to the printing device. Even if the print job is canceled halfway through the print, it is charged as a whole.

To enable the offline accounting mode of a printing device:

- 1. On the **Printers** main tab, double-click the printing device to open its properties panel.
- 2. On the panel, in the **Use driver of model:** text box, enter the value *offline*, and then click **Save**.

Fiery IP address:	
Use driver of model:	offline

Before enabling the offline accounting mode, deactivate the printing device. The **Use driver of model:** setting cannot be changed on activated printing devices. Once you enable the offline accounting mode, reactivate the printing device. See Activating and deactivating printing devices for more information.

# 8.12 Monitoring local printers

Besides monitoring network printers, MyQ is able to monitor the number of printed pages on devices connected locally, via a parallel port or a USB port. In such cases, the number of printed pages is extracted from the print spooler as it is being processed by the print driver.

To extract the data provided by the spooler, you need to install the MyQ Desktop Client for Windows application to all the computers that you print from to MyQ, and set up **Local Print Monitoring** there. All jobs sent to selected types of ports will be detected from the print spooler.

A disadvantage of the local print monitoring feature is its inaccuracy. As the communication of MyQ and the local printing device is one-sided and restricted to sending print data to the device, it is not possible to check if the data is actually printed. Therefore, MyQ charges the number of pages extracted from the spooler when they are sent to the printing device. Even if the print job is canceled halfway through the print, it is charged as a whole.

) Local printing devices monitoring is available only on computers with MS Windows.

### 8.12.1 Accounting on local printers

After a print job is sent to one of the local printing devices, the number of pages and other information about the print job are saved to the MyQ Desktop Client folder of the particular registry file. Once the connection with the MyQ server is established, all the information is automatically transferred to the MyQ server and deleted from the registry. Therefore, it is not necessary to be permanently connected to the MyQ Server online.

Once the server is connected and data is sent to the server, information about the job appear in an **Info** entry in the MyQ log. Each entry contains information about the user who printed, the printing device that the user printed on and the number of printed pages. The MyQ server automatically creates a new local type printing device. Its name has the following form: *printer@computer*.

An appropriate price list can be set for local printing devices. Therefore, they can be included in the monetary reports. If the user that prints on the local printing device already exists, their prints are simply assigned to them. Otherwise, the job is accounted to the **\*unauthenticated user**.

## 8.13 Printer Events

**Printer Events** are customizable actions initiated by specific events, which are based on printing devices alerts. The alerts are set up by first defining the events, and then selecting and setting the actions triggered by these events. The actions are of two kinds: as a response to an event on a printing device, MyQ can send an email notification to one or more persons, or it can terminate the user session on the embedded terminal of the device.

The events can be set on the **Printer Events** settings tab and the event actions on the **Event actions** settings sub-tab.

= <b>MYQ</b>	Settings: Events	
% Settings	Printers & Terminals 🕨 🦻 Events	
E License	October Add ▼	📿 Refresh
♀ Server type	Active Name	▲   Type ▲
💥 General	SNMP Alert	
Personalization	Call service	SNMP Alert
<ul> <li>Task Scheduler</li> </ul>	Check supplies	SNMP Alert
💂 Network	<ul> <li>Cover open or Paper jam</li> </ul>	SNMP Alert
Authentication servers	<ul> <li>Out of paper</li> </ul>	SNMP Alert
😤 SNMP	<ul> <li>Toner almost empty</li> </ul>	SNMP Alert
🛱 Printers & Terminals	Toner empty	SNMP Alert
2 Configuration Profiles	Toner Status Monitor	
🗟 Printer Discovery	<ul> <li>Toner below 20%_C</li> </ul>	Toner Status Monitor
Terminal Actions	<ul> <li>Toner below 20%_K</li> </ul>	Toner Status Monitor
Fvents	<ul> <li>Toner below 20%_M</li> </ul>	Toner Status Monitor
级 Event Actions	Toner below 20%_Y	Toner Status Monitor

(i) A report with the Event History type can be created, which informs about all events on selected printers or groups of printers during a certain period of time.

### 8.13.1 Events

There are ten predefined alerts on the **Events** settings tab. These correspond to common situations, such as empty toner or a printer out of paper, or to states of printing devices that require particular actions, such as technical support or supply check. They are triggered by the following states of a printing device:

- **Call service** The printing device requires authorized technical service.
- **Check supplies** Consumables of the printing device need to be checked.
- Cover open or Paper jam Either a device cover is open or a paper is jammed.
- Out of paper The printing device is out of paper.
- Toner almost empty One or more toners on the device are almost empty.
- **Toner empty** One or more toners on the device are empty.
- Toner below 20%\_C The Cyan toner on the device is below 20%.
- **Toner below 20%\_K** The Black toner on the device is below 20%.
- **Toner below 20%\_M** The Magenta toner on the device is below 20%.
- Toner below 20%\_Y The Yellow toner on the device is below 20%.

#### Changing the toner level to be monitored

The toner level to be monitored is set to 20% by default but can be easily changed following the instructions below:

- 1. On the alerts list on the **Events** tab, double-click the alert. The properties panel opens on the right side of the screen.
- 2. Change the value in the **Level below** field (in %).
- 3. Change the name of the alert according to the new monitored level.

### **Creating new events**

To create a new event, click **+Add** and a select the type of event to be created.

Available event types:

- **SNMP alert** The SNMP alert event occurs when at least one of the predefined filter passes. If the event has no filters defined, it's never open. You can define the following filters: *Code from, Code to, Severity, Training, Group, Group Index, Brand, Model.*
- **Toner Status Monitor** The event occurs when the toner level decreases below a predefined threshold. When the toner level rises again to or above the threshold, the event is closed. The monitored toner (*Black toner, Color toner, Any toner*) can be configured.
- **Total Counter Increase** The event monitors when the print and copy counters on a device repeatedly reach a certain value. For each such event, two values need to be specified:
  - which type of counters should be monitored by this event; possible values are *Print & Copy total, Print & Copy mono, Print & Copy color.*

- which repeatedly reached values should be monitored this means that a value X needs to be specified and whenever the counters on a device reach a value that is evenly divisible by X, the actions are triggered
- **Toner Replacement** The event is used to predict toner depletion. For each such event, two values need to be specified:
  - monitored toner (Cyan toner, Magenta toner, Yellow toner, Black toner)
  - number of days that serve as threshold for triggering actions this means that user specifies value X and whenever the predicted number of days left is less than or equal to this value, the associated actions get triggered

A properties panel opens to the right side of the screen. Fill in the mandatory information and click **Save**.

Replace Toner	×
Active:	
Type:	Toner Replacement
Name: *	Replace Toner
Monitored toner: *	Black toner
Replacement in days: *	60
	Save Cancel
Fields marked by * are m	landatory.

### 8.13.2 Event actions

The two available actions are sending an email and logging the user out of an embedded terminal. Each action can be either applied to all printers, or it can be restricted to specific groups of printers.

There are four predefined event actions: **Toner below 20%\_C**, **Toner below 20%\_M**, **Toner below 20%\_Y**, **Toner below 20%\_K**. These actions apply to all printers and respond to the **Toner below 20%\_C**, **Toner below 20%\_M**, **Toner below 20%\_Y**, **Toner below 20%\_K** events.

<b>≡ MYQ</b>	Settings: Event Actions							
% Settings	Printers & Terminals 🕨 🏂 Event Acti	ons						
Network	Add action      ✓ Active	😌 Add action 👻   🧷 Edit 🗹 Active   🗡 Delete   🎵 Refresh						
Authentication servers	Active Name	▲ Туре	Event	Printer group	Delay▲			
😤 SNMP	Toner below 20%_C							
👌 Printers & Terminals	O Toner below 20%_C	Send email	Toner below 20%_C	All printers	0 min			
Configuration Profiles	Toner below 20%_M							
Printer Discovery	O Toner below 20%_M	Send email	Toner below 20%_M	All printers	0 min			
Terminal Actions Events	Toner below 20%_Y							
Sevent Actions	O Toner below 20%_Y	Send email	Toner below 20%_Y	All printers	0 min			
<b>2</b> Users	Toner below 20%_K							
Policies	O Toner below 20%_K	Send email	Toner below 20%_K	All printers	0 min			
😤 User Synchronization								

To create a new event action:

- 1. Go to **MyQ**, **Settings**, **Event Actions** and click on **+Add action**. Select the type of action from the drop-down: **+Send email** or **Log out user**.
- 2. On the panel, set all the options of the action and click **Save**.

#### Setting event actions

The parameters described below belong to the **Send email** and **Log out user** event actions.

- **Enabled** Enable or disable the event action.
- Name Add a name for the action
- Event Select the event that will initiate this action.
- **Printer Group** Select the printer group(s) that the action applies to from the list.
- **Delay** Set a time period after which the email is sent (in minutes).
- **Recipient** Enter the email recipient(s). You can use the *%PRN.CONTACT%* parameter to send the email to the device's contacts.
- **Subject + Message** Enter the email's subject and message. You can use the following parameters
  - %PRN.NAME% name of the printer
  - %PRN.IP\_ADDRESS% IP address of the printer
  - %PRN.SERIAL\_NUMBER% serial number of the printer
  - %PRN.MODEL% model name of the printer
  - %PRN.PRINTER\_MONO% counter of B&W pages printed on the device
  - %PRN.PRINTER\_COLOR% counter of color pages printed on the device
  - %PRN.COPIER\_MONO% counter of B&W pages copied on the device
  - %PRN.COPIER\_ COLOR% counter of color pages copied on the device
  - %PRN.SCANNER% counter of scanned pages sent to email or folder
  - %SUPPLY.INFO% all of the toner supply identifiers separated by semicolon
  - %TONER\_C.LEVEL% C toner level in percentage
  - %TONER\_M.LEVEL% M toner level in percentage
  - %TONER\_Y.LEVEL% Y toner level in percentage
  - %TONER K.LEVEL% K toner level in percentage
  - %PRN.ASSET NO% the asset number of the printer
  - %EVENT.TONER.LEVEL% toner level information
  - %EVENT.TONER.INFO% toner information

### **Event History**

The MyQ administrator can view the **Event History** on the MyQ Web Administrator interface, in **MyQ, Event History**.

Event History						
Event:	Printer	Event	▲ Туре	Created	Resolved	Event details
•	Check supplies					
Created:	SHARP MX-2640N_4	Check supplies	SNMP Alert	10/02/2022 09:33:30	10/02/2022 09:37:21	Marker: Toner Almost Empty • Marker: Supplies
Select a period or enter a range with the format	SHARP MX-2640N_4	Check supplies	SNMP Alert	10/02/2022 09:45:26		▲ Marker: Toner Almost Empty • Marker: Supplies
starting dateending date. Date format: dd/mm/yyyy	Out of paper					
Resolved:	ECOSYS P8060cdn_5	Out of paper	SNMP Alert	10/02/2022 09:33:25	-	🛆 Input: Media supply empty • Input
	ECOSYS M3540dn_7	Out of paper	SNMP Alert	10/02/2022 09:33:25	-	🛆 Input: Media supply empty • Input
Select a period or enter a range with the format	TOSHIBA e-STUDIO2050C_10	Out of paper	SNMP Alert	10/02/2022 09:33:30	-	🛆 Input: Media supply empty • Input
starting dateending date. Date format: dd/mm/yyyyy	Toner almost empty					
Not resolved	SHARP MX-2640N_4	Toner almost empty	SNMP Alert	10/02/2022 09:33:30	10/02/2022 09:37:21	▲ Marker: Toner Almost Empty • Marker: Supplies
Printer:	SHARP MX-2640N_4	Toner almost empty	SNMP Alert	10/02/2022 09:45:26	-	▲ Marker: Toner Almost Empty • Marker: Supplies
•	Toner below 20%_K					
Q Search	ECOSYS M3540dn_7	Toner below 20%_K	Toner Status Mon	10/02/2022 09:38:51	-	19%

## 8.14 SNMP profiles

By default, the SNMP v1 protocol is used for communication with printing devices in the MyQ system. Instead of it, you can use the more recent SNMP v2c protocol or the SNMP v3 protocol, which significantly increases the communication security with a printing device.

Multiple SNMP profiles can be created in MyQ, and each printing device can be assigned one of the profiles. This way, you can have one profile for all printing devices with a particular SNMP configuration.

The default SNMP profile can be changed. To make any SNMP profile the default one, select it on the **SNMP** settings tab, and then click **Default** on the bar at the top of the tab (or right-click the profile, and then click **Default** on the shortcut menu).

<b>≡ MYQ</b>	Settings: SNMP			
% Settings	Network 🕨 😤 SNMP			
License	O Add SNMP profile			
Server type	Default Name	SNMP version	Parameters	
General Personalization	✓ SNMP v1	vl	SNMP read community: ******* SNMP write community: ******* SNMP port: <b>161</b>	
<ul> <li>✓ Task Scheduler</li> <li>✓ Pask Scheduler</li> <li>✓ Network</li> </ul>	SNMP v2c	v2c	SNMP read community: ******* SNMP write community: ******* SNMP port: <b>161</b>	
Authentication servers			Security name: MyQ Authentication protocol: MD5 Authentication password: *******	
<ul> <li>Printers &amp; Terminals</li> <li>Configuration Profiles</li> <li>Printer Discovery</li> </ul>	SNMP v3	v3	SNMP port: <b>161</b> Privacy protocol: <b>DES</b> Privacy password: ******* Context:	

## 8.14.1 Adding and editing SNMP v1 and v2c profiles

With the SNMP v1 and v2c protocols, a single string called "*SNMP Community string*" is used to allow access to the device. Only two parameters need to be set in MyQ: the **SNMP read community** parameter and the **SNMP write community** parameter. Their values have to match the values of their counterparts on the printer's Web User Interface (Read Community, Write Community).

#### To add a new SNMP v1 or v2c profile:

- 1. On the MyQ Web Admin Interface, open the **SNMP** settings tab (**MyQ**, **Settings**, **SNMP**).
- On the bar at the top of the SNMP tab, click +Add SNMP profile, and then click +SNMP v1 or +SNMP v2c on the shortcut menu. The new SNMP profile properties panel opens on the right side of the screen.

Network 🕨 😤	SNMP				
🕒 Add SNMP profile 🔻 🧷 Edit 🗸 Default   🛛 🛛 Cafresh					
↔ SNMP v1	ne	SNMP version	Parameters		
SNMP v2c     SNMP v3	MP v1	v1	SNMP read community: ******* SNMP write community: ******* SNMP port: <b>161</b>		
	SNMP v2c	v2c	SNMP read community: ******* SNMP write community: ******* SNMP port: <b>161</b>		

3. On the panel, enter the name of the profile, set the parameters, and then click **Save**. The new profile is displayed on the list on the SNMP settings tab.

#### To open and edit a SNMP v1 or v2c profile

- To open the SNMP profile properties panel, select the profile on the SNMP settings tab, and then click Edit (or right-click the profile, and then click Edit on the shortcut menu, or double-click on the profile). The profile's properties panel opens on the right side of the screen.
- On the SNMP profile properties panel, you can change the profile's name and enter the values of the SNMP read community parameter and the SNMP write community parameter, according to the values that are set on the printer's Web User Interface.
- 3. Click **Save** to submit and store the changes.

😤 New SNMP v2c	×
General	
Name: *	New SNMP v2c
SNMP version:	v2c
SNMP read community: *	
SNMP write community: *	
SNMP port: *	161
✓ Sa	ve Test Cancel
Fields marked by * are mandator	y.

### 8.14.2 Adding and editing SNMP v3 profiles

The SNMP v3 protocol contains additional elements of security, such as authentication and encryption. Each of these elements is set on the printing device and needs to be accordingly set in MyQ.

#### To add a new SNMP v3 profile:

- 1. On the MyQ Web Interface, open the **SNMP** settings tab. (**MyQ, Settings, SNMP**).
- On the bar at the top of the SNMP tab, click +Add SNMP profile, and then click +SNMP v3 on the shortcut menu. The new SNMP profile's properties panel opens on the right side of screen.
- 3. On the panel, enter the name of the profile, set the parameters, and then click **Save**. The new profile is displayed on the list on the **SNMP** tab.

#### To open and edit a SNMP v3 profile

- To open the SNMP profile properties panel, select the profile on the SNMP settings tab, and then click Edit (or right-click on the profile, and then click Edit on the shortcut menu). The properties panel opens on the right side of the screen.
- 2. On the SNMP profile properties panel, you can change the profile's name, set its authentication parameters, its privacy parameters and eventually enter a context name. The values of all of the parameters have to match the values that are set on the printer's Web User Interface.
- 3. Click **Save** to submit and store the changes.

😤 New SNMP v3		×
General		
Name: * SNMP version:	New SNMP v3 v3	
<ul> <li>Authentication</li> </ul>		
Protocol: *	MD5 V	
Security name: Password:	MyQ	
Password:		
▼ Privacy		
SNMP port: *	161	
Protocol: *	DES	
Password:		
Context:		
Sa	ve Test Cancel	
Fields marked by * are mandator	у.	

### 8.14.3 Attaching SNMP profiles to printers

- 1. On the MyQ Web Administrator Interface, open the **Printers** main tab (**MyQ**, **Printers**).
- 2. On the tab, select the printing device, click **Actions**, and then click **Properties**. The printing device's properties panel opens on the right side of the screen.

3. On the panel, go to the **Configuration** section.

- configuration	
Configuration Profile: *	No terminal 👻
Administrator user name:	
Administrator password:	

Select a Configuration Profile that has the SNMP profile attached to it. In case of doubt, go to MyQ, Settings, Configuration Profiles and check the profiles.
 Printers & Terminals > @ Configuration Profiles

🕁 Add	🖉 Edit 🕒 Clone   🛛   🃿 Refresh	
Name	Printers	Configuration Profile
HQ	🕞 Number of printers: 2	Price list: - Fax module: Yes Terminal type: None Automatic configuration: Yes SNMP profile: SNMP v2c

# 9 Users

This topic discusses one of the key MyQ functions: setting and management of users (user accounts). It covers the following subjects:

- Overview, registration, adding, importing, synchronizing and deleting users: List of users, Automatic user registration, Add users manually, Deleting and undeleting users
- PIN generation: Generating PIN
- Individual user settings: Editing user accounts, Enable user profile editing, User Groups, Exporting users
- Job policies concerning users and printers: Policies
- Special administrative rights: Rights
- Securing the personal data of MyQ users, anonymization: Securing MyQ users personal data
- User synchronization from LDAP, CSV files, or Azure Active Directory, together with manual and scheduled runs of synchronizations: User import and synchronization.
- User authentication using an LDAP or Radius server: Using External Authentication Servers.
- Identifying the owner of a sent job: Detecting job owners.

≡ myę	Home	2	Users				
♀ Users	Search	Q	Q Unclassified				
▼ Q Searches			User name	Full name	•	Email	Personal number
Q All users			*admin	Administrator		test@email.com	
Q Unclassified			*api	API			
Q Managers			*fax	Fax			
Q Locked			*system	System			
<u>同</u> Deleted			*unauthenticated	User not authenticated	l by MyQ		
🕨 🙈 Groups							

# 9.1 List of users

On the **Users** main tab, you can see users and information about them. With the **All users** search option selected, you see a list of all the users that are currently in the system.

Apart from this search option, you can also choose from:

- Unclassified select to display only the users that do not belong to any group
- Managers select to display only group managers
- Locked select to display users whose accounts have been locked
- **Deleted** select to display only deleted users

### 9.1.1 Default system users

The database of every installation of MyQ contains five default system users. These users are used for administration of the MyQ system and cannot be deleted.

- 1. **\*admin** This is the MyQ administrator account. It is used for administration of the MyQ system on the Web Administrator User Interface.
- 2. \*api MyQ uses this account to connect to external applications.
- 3. \*fax All printed faxes are charged to this account.
- 4. **\*unauthenticated** If there are any printed, copied or scanned pages that for some reason cannot be assigned to concrete users, they are charged to this account. This can happen, for example, if the print server is not available and users print in an emergency, offline mode on a printing device. It can also happen if someone prints directly on a printing device, bypassing the MyQ system. In such

cases, you might need to check the printing device security settings.

5. **\*system** - All the actions performed by the MyQ system are charged to the **\*system** user.

### 9.2 Automatic user registration

Usually, only registered users can access the MyQ system and use the services there.

However, in some exceptional cases, it might be useful to enable automatic registration and thus provide all users with access to MyQ. Users can be automatically registered to the MyQ system in two ways:

- either they can register themselves on the MyQ Web User Interface or on an embedded terminal,
- or they can be automatically registered after sending a job to MyQ from their computer or via email as an attachment.

On the **Users** settings tab, under **New user registration**, you can enable and disable these options, and for each option, you can select one or more groups where the registered users will be added to.

<ul> <li>New user registration</li> </ul>			
Register by swiping an unknown ID card:	Add to group:	•	
Register in the Web user interface:	Add to group:	· · · · · · · · · · · · · · · · · · ·	
Register by receiving a job via LPR/IPPS/RAW protocols:	Add to group:	<b>v</b>	
Register by receiving a job via email:	Add to group:	¥	
Register by receiving local job meta data (LPM):	Add to group:	¥	
▷ Email for new registered users			

#### Register by swiping an unknown ID card

With this option selected, users can register themselves at a printing device with an embedded terminal by swiping an unknown ID card at the card reader.

After they swipe the card, a new account called **anonymX** (anonym1, anonym2, etc.) is created and they are automatically logged in to the terminal. There, they can edit the account using the **Edit Account** embedded action. If the **Enable user profile editing** option is enabled on the **Users** settings tab, under general, they can change their full name, email and language; otherwise they can only change the language.

#### Register on the MyQ Web User Interface

With this option selected, users can create accounts on the MyQ Web User Interface.

- 1. Click **New Account** at the bottom-left corner of the MyQ login window. The New Account registration widget opens.
- 2. Enter a name and email address.
- 3. Click **Register**. The newly created account is given the same name as the email address entered.

New Account				
Thomas Pineapple				
t.pineapple@companyx.com				
Register Cancel				

After creating the account, the **New account created** message box appears. After clicking **Show PIN** there, the user can see their user name and password.

The user receives an email with information about the new account. The default message contains their user name and PIN. You can change the message in the **Email for new registered users** section.

### Register by receiving a job via LPR/IPPS/RAW protocol

With this option selected, users can register themselves by sending a print job from their computer via the LPR, IPPS or RAW protocol.

After a user sends the job, MyQ detects their name according to the currently set method of user detection, checks whether the user is already registered, and in case of an unknown sender user name, it creates a new account. The newly created account is given the same name as the job sender name detected this way.

The user receives an email with information about the new account. The default message contains the user name and PIN. You can change the message in the **Email for new registered users** section.

#### Register by receiving a job via email

With this option selected, users can register themselves by sending an email with an attached printable document. For more information about sending print jobs via email, see Printing from email and from the MyQ Web UI.

The name of the newly created account is the email address that the email was sent from.

The user receives an email reply with information about the new account. The default message contains the user name and PIN. You can change the message in the **Email for new registered users** section.

#### Email for new registered users

Here you can change the email body that informs the new users about their account.

The values of the **%pin%**, **%username%** and the **%realname%** parameters are the user's PIN, user name and real name.

By clicking **Revert values**, you can reset the email body to the default.

### 9.3 Add users manually

To manually add a new user, follow these steps:

- 1. On the **Users** main tab, click **+Add user**. The properties panel of the new user opens on the right side of screen.
- 2. On the panel, enter the username and full name of the user, and eventually set other data of the user account (see User information and settings), and then click **Save**.

≡ <b>my</b> Q	Home	Q Users		~	0
○ Users	Search	Q Q A	Il users	C Search	Q

# 9.4 Deleting and undeleting users

When you delete a user, they are removed from all groups (including **All users**) and are marked **Deleted**. They are not completely removed from the MyQ database and can be undeleted.

### 9.4.1 Deleting users

To delete a user:

- 1. On the **Users** main tab, select the users that you want to delete, and then click **Actions**. The **Actions** drop-down box appears.
- 2. In the **Actions** drop-down box, click **Delete**. You can find the deleted users under the **Deleted** search option.

### 9.4.2 Undeleting users

To undelete a user:

- 1. On the **Users** main tab, under searches, select the **Deleted** search option. The list of deleted users appears.
- 2. On the list, select the users that you want to undelete, and then click **Actions**. The **Actions** drop-down box appears.
- 3. Click **Undelete**.

## 9.5 Editing user accounts

Each individual user has their own properties panel. To open the panel, double-click the user on the list on the **Users** main tab (or right-click the user, and then click **Edit**). The properties panel opens on the right side of the screen. The panel is divided into four tabs: **General**, **Groups**, **Queues**, and **Delegates**.

😤 Carol Kai	🖗 Actions 👻 🗙
General Groups Queu	es Delegates
User name: *	Carol Kai
Full name: *	Carol Kai
Aliases:	+ Add
Cards:	
	(+) Add
PIN:	×
	+ Add + Generate PIN
Email:	CarolKai@test.qq
Phone:	+420 123 456 789
Personal number:	1
Default language:	English (United Kingdom)
User's scan storage:	c:\store1
	Folder or email for storing scanned documents
Use authentication server:	
Authentication server:	qa.local
Notes:	
Synchronization source:	CSV
	Save     Cancel
Fields marked by * are mandate	ory.

### 9.5.1 User information and settings

- **User name** Here you can enter or change the user name. This entry is mandatory. It is unique and is used to identify the user. It is compared to the parameter obtained from the **User detection method**. For more information, see User detection methods.
- Alias In addition to their user name, each user can have a number of aliases. MyQ treats the aliases as alternative user names.
- Card Here you can set the number of the user's identification card.
- **PIN** Here you can manually create or automatically generate new PIN code for the user and remove existing ones. An unlimited number of PINs can be added.
- **Full name** Here you can enter or change the user's full name. This entry is mandatory.
- Email Here you can enter or change the user's email.
- Phone Here you can set the user's phone number
- **Personal number** The personal number can be used as the user ID in MyQ. The primary ID is the **user name** property.
- **Default language** Here you can select the language of the user's sessions on MyQ embedded terminals.

- **User's scan storage** Here you can set the folder or email, where scanned documents are saved. For more information, see Scan to Me.
- Use authentication server If you select this option, an LDAP server is used for the user authentication. The user uses their LDAP credentials to authenticate to MyQ instead of having a password set in MyQ. Select the domain for the authentication on the setting below.
- **Authentication server** Here you can select the LDAP domain for user authentication.

### 9.5.2 Adding/removing users from groups

To add a user to a group on the user properties panel, in the **Groups** tab:

1. On the bar at the top of the **Groups** tab, click **+Add**. The Select group dialog box appears.

😤 Carol Kai	🖗 Actions 👻 🗙
General Groups Queues Delegates	
↔ Add ⊙ Remove Accounting Group Manager	
Name	Accounting Group Manager

2. In the Select group dialog box, select the groups where you want to add the user to.

Select group	×
[\$earch	Q
將 Group_2	
ቶዲ Group_3	
₽ Group_4	
₽% Group_5	
Count: 4 $\leftarrow$ Page: 1 / 1 $\rightarrow$ Items per page: 100 (?)	
V OK Cancel	

3. Click **OK**.

A user can also be added to a group on the **Users** main tab using drag and drop. Drag the user and drop it on the group icon on the groups tab on the left side of the screen.

#### Default group and Group manager options

On the bar at the top of the **Groups** tab, you can see two options: **Accounting** and **Manager**.

The **Accounting** group is the group where the user is counted in reports (see Reports) and it is set to every user by default.

If you make a user the **Manager** of a certain group, the user can see jobs and reports of all the users from the group. To make the user a manager of a group, select the group and click **Manager**.

#### To remove a user from a group:

On the bar at the top of the **Groups** tab, click **–Remove**. The group disappears from the **Groups** tab.

To remove selected users from a group on the **Users** main tab, select the group there, select the users that you want to remove, click **Actions**, and then click **Remove from group** in the **Actions** drop-down box.

#### 9.5.3 Queues tab overview

On the **Queues** tab, you can see all the queues where the user can send jobs to.

😤 Carol Kai	🖗 Actions 👻 🗙
General Groups Queues Deleg	ates
Name	Туре
Default	Pull Print
Email	Pull Print
Web	Pull Print
🖷 Personal queues	
The queue at the top of the list has the high	hest priority
Personal 🛨 Add queues:	

Cancel

### 9.5.4 Selecting user delegates

On the **Delegates** tab, you can select delegates (users or groups) who are able to print all of the delegating user jobs sent to a **Delegate** printing type of queue. The delegate will see the jobs on the embedded terminal. The print jobs are displayed in the form: (*Sending user\*\*Name of the print job*). For more information about the delegate printing feature, see Delegated printing.

Save

Users need to have rights to a delegate printing type queue to be able to select delegates.

#### To select delegates:

On the bar at the top of the **Delegates** tab, in the **Delegates** combo box, enter the user (or the group of users), and then click **Save**. This way, you can add multiple users (or groups of users).

📯 Carol Kai	🖗 Actions 🔻	×
General Groups Queues Delegates		
Delegates can print user's jobs sent to the delegated printing queue.		
Delegates: Regulation Compared Barbara		•
Save Cancel		
Tools		
🕸 Show resultant delegates		

#### To deselect delegates:

On the bar at the top of the **Delegates** tab, in the **Delegates** combo box, point to the user (or group of users) that you want to deselect, and then click the remove button (**X**) on the right side of the user (or group of users).

# 9.6 Enable user profile editing

By default, all users can change their default language on their MyQ Web accounts and on some embedded terminals, while the rest of their properties can be changed only by the administrator. On the **Users** settings tab, you can provide users with additional editing options: change their full name and email, and to select their delegates.

To enable users to change their full name and email, select the **Enable user profile** editing option.

To enable users to change their delegates, select the **Enable delegate changes** option (see Delegated printing).

🕺 Users	
▼ General	
Enable user profile editing:	If enabled, user can change these properties: Full name, Email Properties which can be changed always: Password, Default language
Show more info about user profile:	Widget 'User profile' will contain more information
Enable personal queues settings:	This functionality requires Scripting (PHP)
Enable delegate changes:	
Enable deleting all ID cards:	

Once user profile editing is enabled, users can open their profile management options by clicking **Edit** at the bottom-left corner of the **User profile** gadget on their MyQ Web accounts.

User profile	
User name:	Eliot Kate
Full name:	Eliot Kate
Email:	
Default language:	English (United Kingdom)
Edit Set password	••• Generate PIN

### 9.7 User groups

On the **Users** main tab, you can create new user groups. In MyQ, different groups of users can be given different access rights to print queues (see Queues), print functions, such as color printing or scanning (see Policies), and reports (see Reports).

### 9.7.1 Creating user groups

To create a group, do the following:

- 1. On the group tab on the left side of the **Users** main tab, point on the group under which you want to create the new group. A drop-down box appears to the right.
- 2. On the drop-down box, click **+Add Group**. The new group properties panel opens on the right side of the screen.

🕺 Users	Search Q				
▼ Q Searches					
Q All users					
Q Unclassified					
Q Managers					
Q Locked					
🗊 Deleted					
► ﷺ Groups					
🕒 Add groe	up				
× Delete a	ll groups				

- 3. Enter a name for the new group.
- 4. Click **Save**.

To select delegates for the group:

- 1. Open the group properties panel by double-clicking on the group.
- 2. On the bar at the top of the **Delegates** tab of the group properties panel, in the **Delegates** combo box, enter or select the user (or the user group).
- 3. Click **Save**. This way you can add multiple users (or the user group).

To deselect delegates for the group:

On the bar at the top of the **Delegates** tab, in the **Delegates** combo box, point to the user (or user group) that you want to deselect, and then click the remove button (**X**) on the right side of the user (or user group).

### 9.7.2 Deleting user groups

- 1. On the group tab on the left side of the **Users** main tab, right-click the group that you want to delete.
- 2. Click **Delete**.

### 9.8 Exporting users

In case you need to export the list of MyQ users to a CSV file — for example if you want to use the CSV file for user synchronization — you can do so on the **Users** main tab of the MyQ Web Interface.

To export the list of users:

- 1. Click **Tools** on the toolbar at the top of the **Users** main tab.
- 2. Click **Export** in the **Tools** drop-down. The Users Export dialog box appears.
- 3. In the dialog box, select the group you want to export and click **OK**. The file is downloaded to your default *Downloads* folder.

≡ <b>myQ</b>	Home P	Users			<b>~</b>	0
○ Users	Search Q	Q Unclassified	🕒 Add user 💡	Actions 🔻 🛛 🖻	Tools 🔻 💭 Search	Q
▼ Q Searches		User name	Full name	▲ Email	Bulk credit recharge	sona
Q All users		*admin	Administrator	test@em	Export	
Q Unclassified		*api	API		Colora alla Cicla A	
Q Managers		*fax	Fax		Select all Ctrl+A	
Q Locked		*system	System		Edit columns	
间 Deleted		*unauthenticated	User not authenticated by MyO	2	Default layout	
🕨 🙈 Groups					Double header height	J

# 9.9 Securing MyQ users personal data

Except for the data shown in MyQ reports, everything stored in MyQ is necessary for the functioning of the system. The data can be accessed only by people with administrator rights in MyQ and are not processed by the system or disclosed to third parties. As to the information shown in MyQ reports, it is fully under the control of the MyQ administrator, who can provide certain users with rights to view information related to other users or groups.

MyQ users can access their personal data within the MyQ system and upon their request, the MyQ administrator can erase the data by anonymizing the user. The following sections show how the users can access the data and how to anonymize the users.

These options are closely related to the General Data Protection Regulation (GDPR), which aims to protect the personal data of EU citizens. For more information about how the GDPR is implemented in MyQ, contact MyQ Support.

## 9.9.1 Providing users with their personal data

On their MyQ Web accounts, MyQ users can see the **User profile** gadget with the personal information stored in MyQ.

On their Web account, MyQ users can generate reports related to their activity within MyQ, such as printing, copying and scanning to see what information is available in these reports (see Reports).

Users may also contact the MyQ administrator with a request to provide them with the data.

The MyQ administrator can create a custom dashboard message informing all users about the data protection options and include the admin email contact via the **%admin%** parameter (see Personalization).

MyQ is GDPR compliant. In order to exercise your rights for data protection please send an email to admin@mycompany.com

## 9.9.2 Anonymizing users

After the anonymization, the user is completely removed from the system and replaced by a randomly generated name in all of the relevant MyQ reports.

After a user is anonymized, all of their personal data (including username and email) are permanently erased from the system and cannot be retrieved.

To anonymize a user:

On the **Users** main tab of the MyQ Web Interface, select the users that you want to anonymize, then click **Actions** (or select the users, and then right-click any of them), and finally click **Anonymize**.

User name	Full name	▲ Email	Personal number
Carol Kai	Carol Kai	CarolKai@test.qq	1
		C Edit	
		Recharge Credit	
		Reset credit	
		Release blocked credit	
		Boost quota	
		Release blocked quota	
		🕜 Set password	
		Generate PIN	
		Remove from group	
		Show effective policies	
		🗇 Unlock	
		× Delete Delete	
		🖕 Undelete	
		Anonymize	

## 9.10 User import and synchronization

User synchronization is a method of synchronizing user related data in the MyQ database with data in external sources, such as LDAP servers or CSV files. Importing new users is an optional part of the synchronization process. Within the synchronization setup, you can activate or deactivate the new users import; if you deactivate it, MyQ only updates accounts of users that already are in its database.

This topic provides detailed information about the synchronization. It fully describes the methods of import and synchronization available in MyQ and presents two options of running the synchronizations:

- User synchronization from LDAP servers
- User synchronization from CSV files
- Manual and scheduled synchronization run
- User synchronization from Azure Active Directory
- Using external authentication servers

### 9.10.1 How does the user synchronization work?

First, you need to add a new synchronization source. Overall, there are four possible types of synchronization sources: LDAP server, CSV file, MyQ Central server and Custom script, but in this topic, we will discuss only the first two types. The synchronization from the Central server is used on the Central/Site server architecture installations of MyQ and is explained in the *MyQ Central Server Installation Guide*. The synchronization from a custom script is used only in very specific cases; for information about this option, please contact your MyQ Support.

As soon as you add the synchronization source, MyQ opens its properties panel where you can set it up. Although they differ in their sources, all synchronizations

have one thing in common; their goal is to adequately synchronize the user data in the source with the users' data in MyQ.

An important part of the synchronization setup is pairing user attributes in the synchronization source with their counterparts in MyQ. This can be done by setting the corresponding properties in the **Properties** section of the **Users** tab of the LDAP synchronization settings tab or by defining the corresponding fields in the CSV file.

Apart from that, you might want to select some additional options, such as adding new users, deactivating users that are not in the synchronization source, or converting user names to lowercase. These options can be selected in the **Options** section of the **Users** sub-tab of the LDAP synchronization settings tab or on the properties panel of the CSV synchronization.

Also, you can import groups of users or even whole group tree structures. This can be done by setting the groups on the **Groups** sub-tab of the LDAP synchronization settings tab or by defining the groups inside the CSV synchronization file.

#### User properties and synchronization options

#### User properties in MyQ

- **User name**: Name of the user account in MyQ. In Active directory and Open LDAP, this property corresponds to the **samaccountname** user attribute on the LDAP server.
- **Full name**: This is the full name of the user. In Active directory and Open LDAP, this property corresponds to the **cn** user attribute on the LDAP server. Usually, it is the given name and the surname of the user.
- Alias: In addition to their user name, each user can have a number of aliases. MyQ treats aliases as alternative user names. You can use aliases, for example, if you need to enable one user to send jobs to MyQ from different OS accounts.
- **Card**: The number of the user's identification card. It can be either imported from LDAP or added to MyQ on the user's properties panel. Also, it can be registered by an administrator on a card reader connected to a USB slot or registered by the user on an embedded terminal.
- **PIN**: The MyQ personal identification number is used for access to MyQ Web Interface and MyQ terminals.
- **Personal number**: The personal number can be used as the user ID in MyQ. The primary ID is the user name property. If you select the **Pair by the personal number** property during the user synchronization, the personal number is used instead.
- Email: The user's primary email address.
- Notes: You can use this text box to enter additional notes concerning the user.
- Language: The language used on the user's MyQ Web Interface and their home screen on the embedded terminal.
- User's scan storage: You can select a folder or one or more email addresses where MyQ sends the user's scans. Depending on the scanning setup, scans can be sent here, to the user primary email set in the **Email** property text box, or to other sources defined in MyQ or entered by the scanning users.

#### User synchronization options

- **Deactivate missing users**: If you select this option, MyQ deletes users that are imported from the current synchronization source and that are not in the source anymore. To delete users that were added from different sources, select the **Ignore synchronization source** option together with this option.
- Add new users: If you select this option, MyQ adds new users from the current synchronization source. If you do not select it, MyQ updates the user accounts of the users who are already in MyQ, but does not add any new users.
- Convert user name to lowercase: Unlike some other systems that do not differ between two words with the same letters but different cases (such as "Pear", "pear"), MyQ is case sensitive. You can use the Convert user name to lowercase option to prevent creating multiple accounts for one user.
- Use authentication server: If you select this option and a user logs in by entering their username and password, the credentials are not authenticated against the MyQ database, but instead against an LDAP or Radius server. If you synchronize users via LDAP, the source LDAP server is automatically assigned as

the authentication server. If you synchronize users via CSV, you can select the authentication server from the list of predefined authentication servers.

- **Pair by the personal number**: If you select this option, MyQ identifies users by their personal number instead of their user names. This way you can keep track of a single user with different names in different sources or a user whose name has changed for some reason. For example, if this option is activated and a username in LDAP changes from *cat.stevens* to *yusuf.islam*, MyQ does not create a new user account, but recognizes the old user by their personal number.
- Ignore synchronization source: If this option is not selected, MyQ recognizes two users from different synchronization sources as two different entities. This can cause conflicts during synchronizations from multiple sources. If it is selected, MyQ ignores the synchronization sources and treats all users the same, regardless of their synchronization source. For example, if you run a synchronization and MyQ would import/update a user that has been already added from a different synchronization source, it does not update the user. Instead, it shows the message *The name/alias "X" is already used by the user "X"* among the synchronization results. After you select the Ignore synchronization.

If you select this option together with the **Deactivate missing users** option, all users that were added from different sources and are not in the current synchronization source are deleted during the synchronization.

• Append the domain name to the username (*username@domain.local*): With this option selected, the name of the domain can be retrieved from the MyQ username. The information about the domain may be needed for example, when scanning to users' home folders is used on an embedded terminal.

### 9.10.2 User synchronization from LDAP servers

An LDAP server contains a database that stores all user accounts, passwords and other user related data of an organization. On the **LDAP Synchronization** settings tab on the MyQ Web Interface, you can synchronize users directly from the server database.

MyQ can communicate with as much as five LDAP servers at the same time. It supports Active Directory, OpenLDAP, Novell and Lotus Domino. To synchronize the users, you need to add the synchronization source first, and then setup the synchronization. After the synchronization is set up, you can either run it manually on the **User Synchronization** settings tab or set it as a regular task on the **Task Scheduler** settings tab.

i The settings described here apply only to Active Directory, although the settings for OpenLDAP, Novell and Lotus Domino are similar.

OpenLDAP, with its default settings, limits the number of returned entries and the maximum total time for a query. The default size limit is 500 entries and the default time limit is one hour. In case of a larger customer installation with OpenLDAP, you must adjust these limits appropriately in the OpenLDAP settings, otherwise the user sync will give incomplete results.

For more details see: https://www.openldap.org/doc/admin24/limits.html

#### Creating an LDAP synchronization

Before creating the synchronization, you have to add the LDAP server to MyQ. You do this on the **Network** settings tab, under Authentication servers. Set **Security** to *SSL* and the server port to *636*.

To create a new LDAP synchronization:

1. Add the new synchronization:

On the **User synchronization** settings tab, click **+Add Sync source**. A dropdown box appears.

Users 🕨 🎘 User Synchronization						
🕂 Add sync source 🕶 🛛	Synchronize now	🖉 Edit 🏾	• Enabled	$\uparrow$	$\downarrow$   ×	
Add LDAP source	Description					
Add CSV source						

In the drop-down, click **Add LDAP source**. The LDAP synchronization properties panel opens. On the panel, you can set up the synchronization.

- Set up the synchronization on the LDAP synchronization properties panel: Set up the synchronization on all three tabs on the LDAP synchronization properties panel. On each of the tabs, click **Save** after changing the settings. For more information, see Setting up the LDAP synchronization.
- Return to the User synchronization settings tab: The new LDAP synchronization is displayed on the list of synchronizations on the User synchronization settings tab.

#### Setting up the LDAP synchronization

The setup consists of three parts: creating the synchronization on the **General** tab, setting import of users on the **Users** tab and setting import of groups on the **Groups** tab. You can swap between these tabs on the bar at the upper-left corner of the LDAP synchronization properties panel.

🗶 🔪 🤱 🕹 🕹 L	DAP synchronization	CN=Claude Monet	,OU=Painters,OU=famous	_people,OU=MYQ_IMPORT_TEST,D
General User	s Groups	🖻 🕕 CN=Builtin	Attribute	Value
		CN=Computers	accountexpires	9223372036854775807
Enabled:	ON	🖻 🐌 OU=Domain Controll		0
▲ Connection p	arameters	CN=ForeignSecurityP	badpwdcount	0
		CN=Infrastructure	cn	Claude Monet
LDAP Server: *	testAD.local 👻	CN=LostAndFound	codepage	0
User:	Administrator	OU=MYQ_IMPORT_T	countrycode	0
Password:		4 📙 OU=famous_peop	department	Painters
		OU=Painters	displayname	Claude Monet
<sup>▲</sup> Export to CSV	/ after successful import	CN=Claude	distinguishedname	CN=Claude Monet,OU=Painters,OU:
Enabled:	✓	🙎 CN=Leonard	dscorepropagationdata	16010101000000.0Z
File:	C:\Users\Users.csv 🔋	▷ 🤽 CN=Modigli ▷ 🤽 CN=Pablo P	employeeid	13246
	Enter full path including file	▷ 🤱 CN=Pablo P	aidnumber	2147483647
	name			Claude
Sav	e 🗙 Cancel		and the second sec	4
		OU=Scientists	lastlogoff	0

#### General tab: Creating the synchronization

On the **General** tab, set the general properties of the synchronization: enable or disable the synchronization, select the LDAP server domain, enter user name and password for access to the server, eventually select to export the imported users to a CSV file. See the list below for a description of individual settings.

* &	) 🤱 LC	AP synchro	onization		
General	Users	Groups			
E	nabled:	ON			
▲ Conne	ection par	ameters			
LDAP S	Server:*	testAD.local			-
	User:	Administrator			
Pa	ssword:	••••••			
⊿ Expor	t to CSV a	after successf	ul import		
E	nabled:				
	File:				
	E	Enter full path i	ncluding file name		
		Save	X Cancel	]	

- **Enabled**: Here you can enable or disable the synchronization.
- **LDAP Server**: Here you can select the domain that you want to synchronize from.

- User: Enter the username for access to the LDAP domain server.
- **Password**: Enter the password for access to the LDAP domain server.
- **Enabled** : If you enable the **Export to CSV after successful import** option, MyQ creates a CSV file with the imported users after the synchronization.
- File: Select the folder where you want to save the created file.

After you correctly set the connection parameters (LDAP server, user and password) and save the settings, the LDAP browser opens on the right side of the screen.

In the User setting, a sub-domain user account with enough rights can also be used for authentication, but the sub-domain has to be specified in the username.

For example, the user *Administrator* connects to the *testAD.local* LDAP server, but their account is in the *cz.testAD.local* sub-domain. For successful authentication, the filled in username should be: *Administrator@cz.testAD.local* 

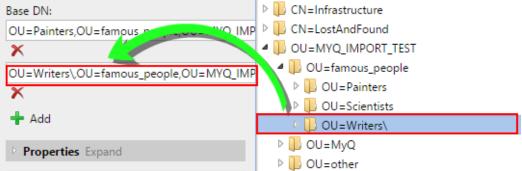
#### Users tab: Selecting base DN, assigning attributes and additional settings

On the **Users** tab, pick one or more base DNs (distinguished names) from which you import the users. In addition, you can assign user attributes from the LDAP server to user properties in MyQ and select additional options concerning the synchronization.

* 2	🔒 LDA	P synchro	onization
General	Users	Groups	
(†) You	can drag and	d drop tree	items and attributes on fields
Base DN: 井 Add			
▷ Prope	rties Expan	d	
Option	<b>ns</b> Expand		
⊿ Filter			
Attribute= Attribute=		✓ Save	X Cancel

• **Base DN**: Here you can pick the base domain or domains from which you import users. Click **+Add** to add a text box for the new base DN, and then drag

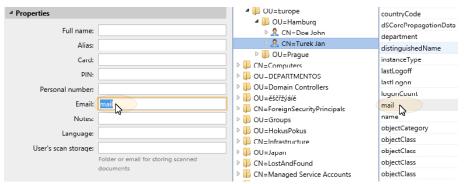
a group from the database browser and drop it in the text box. You can add multiple domains this way.



- **Properties**: These are the properties of every individual user. MyQ will automatically find and assign the user's **SAM account name** to **user name**, **cn** to **full name** and **mail** to **Email** (this applies to Active directory and OpenLDAP only). The user name property is the only one that cannot be changed. To assign an attribute to a property, write the name of the attribute in the property text box or drag it from the attributes of any individual user and drop it in the text box. The following properties support adding multiple values to them, separated by a semicolon (;):
  - Alias
  - PIN
  - Card

For example, in the Alias property, you could add alias1;alias2;alias3.

The AD attribute name should not contain the semicolon (;) character. If a semicolon is part of the attribute's name, that attribute will not be synchronized in MyQ.



For assigning default languages to users, you have to use an attribute from the LDAP server that has the language abbreviations as its values. For example, you can create and use an attribute called **lang** with the values *en* for English, *hr* for Croatian, etc. The list of the abbreviations used in MyQ can be found here.

 Options: For a description of the common synchronization options, see User information and settings. In addition to the basic options that are common for both the synchronization from LDAP servers and for synchronization from CSV files, there is one specific option that belongs only to the import from LDAP servers: append the domain name to the username (username@domain.local). This option enables you to save the information about the LDAP server in the user name. For more information about this option, contact your MyQ support.

 Filter: You can filter the users import by specifying the values of attributes. Add the conditions in the form: Attribute=Value. Users with a different value on this attribute are not accepted and are filtered out of the import. For attributes where the values are strings, such as the cn attribute, you can use the \* symbol to search for substrings. The symbol can be appended from both sides. For example, if you add a cn=\*in\* condition, only users whose common name attribute contains "in" are accepted.

Add one condition per raw. Users are accepted if they satisfy at least one condition.

4 Filter
givenname=Charles cn=*van*
Attribute=Value Attribute=Value
Updating users 1: Charles Dickens added (Dickens       synch/test_writers) 2: Rembrandt van Rijn added (Rembrandt       synch/test_painters) 3: Vincent Van Gogh added (VanGogh       synch/test_painters) 0.063sec.
0.002 sec.

#### Groups tab: Importing groups

On this tab, you can import groups and the group structure from the LDAP source. There are four different ways of specifying which groups are imported. You can use multiple different methods together and by each method, you can create different groups of users. You can also select to import the groups under an existing group in MyQ.

💥 🤰 🤱 LDAP synchronization	CN=test_painters,OU
General Users Groups	CN=Builtin
( You can drag and drop tree items and attributes on fields	<ul> <li>CN=Computers</li> <li>OU=Domain Controllers</li> </ul>
Do not change default group  Import groups under this group:	<ul> <li>CN=ForeignSecurityPrin</li> <li>CN=Infrastructure</li> <li>CN=LostAndFound</li> </ul>
Group stored in user's attribute Expand	<ul> <li>OU=MYQ_IMPORT_TEST</li> <li>OU=famous_people</li> </ul>
Group stored in user's DN Expand	▷ 🕕 OU=MyQ ▷ 🕕 OU=other
Tree group stored in user's DN Expand	▷ 🕕 OU=random
4 Group stored in user's memberOf attribute	▷ 🥵 CN=Janus ▷ 🕵 CN=test_painters
Groups base DN:	CN=test_scientists
Filter:	▷ 🥵 CN=test_writers ▷ 🕕 CN=NTDS Quotas
Attribute=Value Attribute=Value	CN=Program Data CN=System
Import empty groups:	CN=Users
Import tree of groups:        ✓ Save     X Cancel	🖻 🥵 CN=test

- **Do not change default group**: A user can be a member of multiple groups but all their prints, copies and scans are accounted to only one group: the default (accounting) group of the user. If you select this option, the default group of the selected user does not change during the synchronization.
- **Import groups under this group**: You can select an existing group in MyQ under which you import the groups from the LDAP database.
- Groups stored in user's attribute:
  - Attribute: You can select this option if you want to use an attribute that defines groups in the LDAP database. To add it, type the name of the attribute in the property text box or drag the attribute from any individual user and drop it in the Attribute text box.



You can also create groups by combining multiple attributes. To create such groups, put each of the attributes between two percentage signs (%). For example, the combination of attributes %attribute1%\_%attribute 2%, imports a new group named value1\_value2.

▲ Group stored in user's attribute		
Attribute:	%department%_%givenname%	
	O Make default	
SYNC GROUPS *********		
Number of groups to import: 7 Pairing property: path Painters_Claude: created Painters_Leonardo: created		

Furthermore, you can create tree structures of groups by separating the attributes with vertical bars. For example, the combination of attributes *%attribute1%/%attribute2%*, imports a group *value1*, and its sub-group *value 2*.

- **Make default**: If you select this option, the group becomes the default group of the imported user.
- Group stored in user's DN:
  - OU component index: Here you can select a group by its OU (organizational unit) index among the DN components. The index is counted from right to left: the first OU group from the right has index 1, the second from the right has index 2 and so on.

CN=Claude MonetOU=Painters,OU=famous\_people,OU=MYQ\_IMPORT\_TEST,DC=testAD,DC=local

On the image above, there are three OU groups: *MYQ\_IMPORT\_TEST* has index 1 (as it is the first OU group from the right), *famous\_people* has index 2 and *Painters* has index 3. The other components are not OU and therefore have no index.

- **Make default**: If you select this option, the group becomes the default group of the imported user.
- **Tree group stored in user's DN**: Here you can import the whole tree structure of groups. You can restrict the import to any part of the structure by striping the DN components from the left and from the right. In the respective text boxes, enter the amount of components to be striped from the left and from the right side. You have to strip at least one component from the left (the user CN component) and one component from the right (the right-most DC component).

CN=Claude Monet,OU=Painters,OU=famous\_people,OU=MYQ\_IMPORT\_TEST,DC=testAD,DC=local

On the image above, there are six components. If you strip one component from the left

and one from the right, you import the following structure of groups: *testAD* > *MYQ\_IMPORT\_TEST* > *famous\_people* > *Painters*. By stripping components from the left, you remove the groups from the bottom to the top of the structure. By stripping components from the right, you remove the groups from the top to the bottom of the structure.

- **Make default**: If you select this option, the bottom group of the imported structure becomes the default group of the imported user.
- Group stored in user's memberOf attribute:

 Group base DN: MyQ can import security and distribution groups stored in the user's memberOf attribute. The security groups are used to define access permissions granted to their members. Distribution groups can be used for sending emails to a group of users. To specify which groups should be taken into consideration during the import, you have to insert the groups base DN. MyQ imports only groups that are included in the base DN; other groups stored in the memberOf attribute are ignored. The group base DN does not have to be in the same organizational unit as the users base domain. If a user is member of more than one group on the LDAP server, all the groups are stored in the memberOf attribute. Therefore, the Make default option, which requires a single value, is not available for this method of import.

To add the groups base DN, drag it from the database browser and drop it in the **Group base DN** text box.

Filter: You can filter this import by specifying the values of attributes. Add the conditions in the form: *Attribute=Value*. Groups with a different value on this attribute are not accepted and are filtered out of the import. You can use the \* symbol to search for substrings. The symbol can be appended from both sides. For example, if you add a *cn=\*in\** condition, only users whose common name attribute contains "*in*" are accepted. You can add one condition per raw. Groups are accepted if they satisfy at least one condition.

4 Group stored in user's memberOf attribute	
Groups base DN:	DC=testAd,DC=local
Filter:	cn=test*
	Attribute=Value Attribute=Value
SYNC GROUPS ************************************	

 Import empty groups: If you select this option, groups from the Group base DN are imported even if there is no user having them in their memberOf attribute.

test\_scientists: updated via PATH match

0.014sec.

 Import tree of groups: If you select this option, the whole tree structure is imported. Otherwise all groups are added separately; not as a part of a tree structure.

Group stored in user's me	4 Group stored in user's memberOf attribute				
Groups base DN:	OU=MYQ_IMPORT_TEST,DC=testAd,DC=local				
Filter:	cn=test* cn=synch				
	Attribute=Value Attribute=Value				
Import empty groups:	✓				
Import tree of groups:					
<ul> <li>▲ Groups</li> <li>▷ synch</li> <li>▷ test_painters 7</li> <li>▷ test_scientists 7</li> <li>▷ test_writers 5</li> </ul>					

# 9.10.3 User synchronization from CSV files

To synchronize users from a CSV file, you have to create a new CSV synchronization on the **User Synchronization** settings tab and on the synchronization properties panel, add the source file and set properties of the synchronization.

After the synchronization is set up, you can either manually run it on the **User Synchronization** settings tab or set it as a regular task on the **Task Scheduler** settings tab.

CSV synchronization:

- Creating a new CSV synchronization
- CSV synchronization setup options
- CSV file syntax

#### Creating a new CSV synchronization

To create a new synchronization:

 On the bar at the top of the User Synchronization settings tab, click +Add sync source, and then click Add CSV source. The CSV synchronization properties panel appears on the right side of the screen.

Users 🕨 🎘 User Syn	hronization	
🔶 Add sync source 💌	Synchronize now	
Add LDAP source	Description	
Add CSV source		

2. Set up the synchronization: On the CSV synchronization properties panel, set the path to the CSV file in the CSV file field, and configure the synchronization. For information about the synchronization options, see "CSV synchronization setup options" below.

CSV synchronization		×
Enabled:		
CSV file: *	%app%\Data\Import\Users.csv Parameters: %app%	5
Encoding: *	UTF-8	•
Column delimiter in CSV:	; •	
Skip header line:		

3. Save the setup.

#### CSV synchronization setup options

These are the CSV synchronization setup options:

- **Enabled**: Here you can enable or disable the synchronization.
- CSV file: Here you can set the path to the CSV file on the MyQ server.
- **Encoding**: Select the encoding that is used in the CSV file. The default value depends on the OS settings of the computer where you access the MyQ Web Interface on.
- **Column delimiter in CSV**: Select the delimiter that is used in the CSV file. If you select the **Default** option, MyQ scans for the delimiter set on the **Column delimiter in CSV** drop-down list box on the **General** settings tab.
- **Skip header line**: In case the CSV file contain a header line, you need to select this option and skip the first line of the file during the synchronization. All lists of users exported from MyQ contain the header line.
- **Import groups under this group**: Here you can select an existing group in MyQ under which you import the groups from the CSV file.
- **Synchronization source**: Here you can specify a different source than the CSV to be marked as the synchronization source by the MyQ system. For example, you can insert an LDAP server domain.
- Ignore synchronization source: If you select this option together with the **Deactivate missing users option**, all users that are not in the current synchronization source are deleted.
- **Use authentication server**: If you select this option, an LDAP or Radius server is used for the authentication of the imported users.
- Authentication server: Here you can select the LDAP or Radius domain for the user authentication.
- **Deactivate missing users**: If you select this option, MyQ deletes users that are imported from the current synchronization source and that are not in the source anymore. To delete users that were added from different sources, select the **Ignore synchronization source** option together with this option.
- Add new users: If you select this option, MyQ adds new users from the current synchronization source.
- **Pair users by personal number**: If you select this option, multiple accounts with a single personal number are paired.
- **Convert user name to lowercase**: If you select this option, all letters in user names are converted to lowercase.

- **Cards/PIN/Groups/Delegates**: In each of the mandatory drop-down boxes, you can select from these synchronization options for the respective parameter (Cards, PIN, Groups):
  - **Do not synchronize**: The value of the respective parameter in MyQ is not changed.
  - **Full synchronization**: The value of the respective parameter in MyQ is always replaced by the value in the CSV file. If the value in the source file is empty, the value in MyQ is erased.
  - Synchronize if not empty: If the respective field in the CSV file is not empty, the parameter value in MyQ is replaced by the value in the CSV file. Otherwise, the parameter value remains unchanged. This is the default setting.
  - **Add new**: If the parameter is already set in MyQ, it is not replaced. Only new values are added.

### CSV file syntax

In the list below, you can find information about individual fields of the CSV file.

A single word or a plain number can be put in the CSV fields as they are, while more complex strings, such as full name or email address, have to be bounded by quotes.

- **FULLNAME**: Name of the user in double quotation marks, for example "*Thomas Pineapple*".
- USERNAME\_ALIASES: Login of the user and eventually their aliases. The login should be the same as the user's domain login name, for example *Tom*. When you import multiple aliases, separate them with commas, for example "*Tom*, *Tom*, *Apple*".
- EMAIL: Email of the user, for example "*t.pinapple@domain.com*".
- **CARDS**: Number of the user's authentication card/chip. It has to be inserted in the form in which it is read by the card/chip reader, for example *7E9700C9*.
- **GROUPS**: Here you can add user groups. You can import a whole branch of the groups tree structure. The groups on the imported branch have to be separated by vertical bars. If you want to import multiple groups (or groups tree branches), separate them by commas. For example, if you add two branches separated by a comma: "*Activities/Outdoor/Swimming,Activities/Outdoor/Birdwatching*", MyQ

imports a single parent group *Activities* with a single child group *Outdoor*, with two

child groups *Swimming* and *Birdwatching* 

(*Activities>Outdoor>Swimming,Birdwatching*). Commas and vertical bars cannot be used in group names as they are used as group delimiters.

- **CODE**: The personal number of the user. The ID number must be unique for each user. This parameter is very useful when using multiple sync sources.
- **SCANSTORAGE**: The folder or email where the user wants their scans to be sent to, for example "\*Users\Tomy*".
- **PIN**: You can define one or more PINs to be assigned to users within the synchronization process. It is not absolutely necessary, as PINs may also be generated later within the setup of the user account. The PINs should be in the hashed MD5 format, for example *14BFA6BB14875E4*.

- MANAGED\_GROUPS: You can make the user the manager of a particular group by adding the group or path to the group here in the way in which you would import the group. If you want the user to be a manager of a child group, enter a whole branch ending with this group. For example, enter the branch "Activities/ Outdoor/Swimming" to make the user a manager of the Swimming group. If there are no parents of the group in the group structure, enter just the group name, e.g. Activities. Commas and vertical bars cannot be used in group names as they are used as group delimiters.
- **AUTHSERVER**: In this field you may define the domain for user authentication, for example "*testAD.local*".
- **PHONE**: The user's phone number, for example 080008020.
- LANG: Default language of the user, for example en.
- **PWD**: If you want the user to be authenticated against an LDAP server, insert the password in the hashed MD5 format, for example *18BFA6BB14875E8*, or leave it empty.
- **EXTID**: EXTID is an internal MyQ parameter. This field has to be left empty.
- **DELEGATES**: For each user, you can import any number of delegates. If you import multiple delegates, separate them with commas, for example "*Carol,Kohei,Eliot*".

"FULLNAME"; "USERNAME\_ALIASES"; "EMAIL"; "CARDS"; "GROUPS"; "CODE"; "SCANSTORAGE"; "PIN"; "MANAGED\_GROUPS"; "AUTHSERVER"; "PHONE"; "LANG"; "PWD"; "EXTID"; "DELEGATES"

"Thomas Pineapple"; "Tom, Tommy, Apple"; "t.pinapple@domain.com"; 7E9700C9;"Imported Users, Activities|Outdoor|Swimming, Activities|Outdoor|Birdwatching";22212;"\\Users\Tomy"; 14BFA6BB14875E4;Birdwatching;testAD.local;080008020;en; 18BFA6BB14875E8; ;"Carol,Kohei,Eliot";

# 9.10.4 User synchronization from Azure Active Directory

Azure Active Directory is a service accessed from the Microsoft Azure Portal. It has to be enabled and configured in Azure Active Directory Domain Services.

The activation and setup of the service are described in the following Microsoft guides:

- To enable and configure Azure Active Directory Domain Services: https://docs.microsoft.com/en-us/azure/active-directory-domain-services/ tutorial-create-instance
- Configure Azure AD Domain Servers to use SLDAP: https://docs.microsoft.com/en-us/azure/active-directory-domain-services/ tutorial-configure-ldaps

After you activate the Azure Active Directory, you need to add it to MyQ and set up the synchronization in the standard way (see User Import and synchronization). When setting up the **Authentication server** in MyQ, you need to make sure that the LDAP server parameters are set to the following values:

- Domain = DNS DOMAIN NAME of the Azure AD Domain
- Security: SSL

Home > myqdev.onmicrosoft.com - Properties				
Azure AD Domain Services	- Properties			
<ul> <li>Search (Ctrl+/)</li> <li>Overview</li> </ul>	DNS DOMAIN NAME			
<ul> <li>Activity log</li> <li>Access control (IAM)</li> </ul>	LOCATION West Europe			
Manage	AVAILABLE IN VIRTUAL NETWORK/SUBNET MyQDevNetwork/MyQDevTestSubnet			
<ul> <li>Secure LDAP</li> <li>Health</li> </ul>	NETWORK SECURITY GROUP ASSOCIATED WITH SUBNET AADDS-myqdev.onmicrosoft.com-NSG			
Q Notification settings Troubleshooting + Support	IP ADDRESS ON VIRTUAL NETWORK 10.0.0.5 10.0.0.4			
Troubleshoot New support request	SECURE LDAP Enabled			
	SECURE LDAP CERTIFICATE THUMBPRINT B3085415B5ABA88C04742B4D4D1F2F66F8E87025			
	SECURE LDAP CERTIFICATE EXPIRES Sat, 05 Oct 2019 06:35:17 GMT			
	SECURE LDAP EXTERNAL IP ADDRESS			

#### • Server = SECURE LDAP EXTERNAL IP ADDRESS of the Azure AD Domain

# 9.10.5 Using external authentication servers

In addition to the internal MyQ authentication methods (password, PIN or ID card), you can use two types of external authentication servers: LDAP and Radius.

With the two external methods, MyQ does not use the internal MyQ PIN or password for user authentication, but instead authenticates users against an LDAP or Radius server. After the user enters their credentials during the authentication, the credentials are sent to be verified directly by the external server. If there is no online connection with the LDAP or Radius server, users cannot log in.

To enable this method of authentication, you have to take two steps:

- 1. register the external authentication servers in MyQ
- 2. select to use them for user authentication

To register external authentication servers in MyQ, see Authentication Servers Settings.

Selecting to use the registered external authentication servers for user authentication, can be done either automatically during the user import from an LDAP server or a CSV file, or manually on the properties panels of individual users.

#### Automatically selecting the external authentication option

#### Importing users from a CSV file

When you import users from a CSV file, you have two options of selecting the authentication server for the users:

- 1. You can select the **Use authentication server** option and select the server during the synchronization setup on the synchronization properties panel.
- 2. You can specify the **Authentication server** for a particular user in the **AUTHSERVER** field of the CSV file. If the field is not empty, its value has priority over the value selected on the properties panel.

For more information about importing users from CSV files, see User synchronization from CSV files.

#### Importing users from an LDAP server

During the users import from an LDAP server, you can select the **Use authentication server option**, to use the current synchronization source server for users authentication. For information about importing users from LDAP servers, see User synchronization from LDAP servers.

Unlike the **Use authentication server** setting for the import from a CSV file, which allows you to select the authentication server, the **Use authentication server** setting here gives you a single option — users will be authenticated against the LDAP server where they are imported from.

### Manually selecting the external authentication option

To manually select the external authentication option

- 1. Open the **Users** main tab and double-click the user. The user's properties panel opens on the right side of screen.
- 2. On the panel, select the **Use authentication server** option. The Authentication server setting becomes available.
- 3. On the Authentication server drop-down box, select the server you want to use, and then click **Save** at the bottom of the panel.

### 9.10.6 Manual and scheduled synchronization run

The synchronization can be manually run on the **User Synchronization** tab of the MyQ Web Interface, or it can be set as a scheduled task on the **Task Scheduler** tab.

#### Manual synchronization run

On the **User synchronization** settings tab, enable the synchronizations that you want to run, and then click **Synchronize now** on the bar at the top of the tab.

Users 🕨 🎘 User Synchronization				
🕂 Add sync source 🔻	🕞 Synchronize now 🖉 Edit 🔹 Enabled 🛧 🗼 🛛 🗙			
Enabled Type	Description			
LDAP	my ocal			
CSV C:\Users\Administrator\Desktop\1000Users5Groups.csv				

### Scheduled synchronization run

On the **Task scheduler** settings tab, you can setup a scheduled run of the synchronization. For more information about this option, see Task scheduler.

# 9.11 User Authentication

In the **User Authentication** settings tab, the administrator can manage everything related to how users authenticate themselves in MyQ:

- ID Card management
- PIN management
- Password Complexity
- External Authentication

<b>≡ MYQ</b>	C Settings: User Authentication
% Settings	Users 🕨 🕜 User Authentication
P Network Authentication servers SNMP	<ul> <li>Cards</li> <li>PIN</li> </ul>
<ul> <li>Printers &amp; Terminals</li> <li>Configuration Profiles</li> <li>Printer Discovery</li> <li>Terminal Actions</li> <li>Events</li> <li>Event Actions</li> </ul>	

# 9.11.1 ID Card Management

In the **User Authentication** settings tab, in the **Cards** section, there are the following ID Card management options:

- **Enable registration of multiple cards** This is enabled by default. If disabled, when a new card is registered, the current cards are deleted.
- **Register cards as temporary** If this is enabled, ID cards can be registered as temporary.
  - Validity of temporary cards Set the duration of the temporary cards validity in hours.

- **Card code transformation** This transformation is used by Embedded terminals (with USB readers connected directly to the device) and by the reader for a HW terminal that is connected, usually, as a primary reader.
- **USB reader transformation** Check the box to apply the transformation to card readers connected to a PC USB slot. These card readers are usually used to recharge credit or to associate cards with user accounts.

🌲 User Authentication	
Fields marked by * are mandatory.	
▼ Cards	
Enable registration of multiple cards:	If cleared, the current cards are deleted when a new card is registered.
Register cards as temporary:	
Validity of temporary cards: *	24 hours
▼ Advanced	
Card code transformation:	
USB reader transformation:	
source. The mar synchronization	anually is not possible when cards are synchronized from an LDAP nually added cards will be deleted during the next LDAP , and overwritten by the cards from the LDAP source. • cards via the LDAP synchronization is supported.

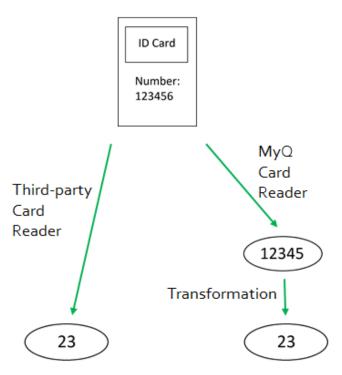
### **ID Card Transformation**

This topic discusses the ID Card transformation feature in MyQ. The transformation might be necessary if the customer needs to import card numbers from a third-party SW database and the card number format in this database doesn't match the format read by the MyQ card reader.

The third-party system card readers can give output in a different format than the card readers used in MyQ. In consequence, users card numbers imported from the third-party system can differ from the card numbers read by the MyQ card readers. To unify the format of the two outputs, you can define a specific sequence of commands that transforms the output of the MyQ card readers to the format used in the database of

the third-party system.

With most of the MyQ card readers, you can use the card reader configuration software to set the format directly on the reader. However, it is simpler and faster to set one or two universal MyQ transformations than to separately change settings of each card reader.



How to setup the card transformation:

On the **User Authentication** settings tab, in the **Cards** section and under **Advanced**, you can define and use a transformation for card readers and select to use it on a USB reader connected to the administrator PC. The USB reader can be used to recharge credit or associate cards.

Available options:

- **Card code transformation**: This transformation is used by Embedded terminals (with USB readers connected directly to the device) and by the reader for a HW terminal that is connected, usually, as a primary reader.
- **USB reader transformation**: Check the box to apply the transformation to card readers connected to a PC USB slot. These card readers are usually used to recharge credit or to associate cards with user accounts.

Defining the transformation

You can define the transformation by adding commands that can be found on this list. The commands have to be separated by a semicolon (;) and are read and executed from left to right. For example in the transformation *CommandX;CommandY, Command X* is executed first and *Command Y*, second.

All the commands, except for the + command, are applied in the following way:

The first command of the transformation and each command immediately behind the + command are applied to the initial card number. All other commands are applied to the result of their predecessors.

#### ID card transformation commands

- **ltrim(number of characters)** Remove the first X characters from the left. *ltrim(2): 123456 —> 3456*
- rtrim(number of characters) Remove the first X characters from the right (the last X characters). rtrim(2): 123456 —> 1234
- **prepend(character string)** Add the string in front of the card number. prepend(AB): 123456 —> AB123456
- **append(character string)** Add the string behind the card number. append(AB): 123456 —> 123456AB
- left(number of characters) Select the first X characters from the left (and remove the rest).
   left(2): 123456 —>12
- right(number of characters) Select the first X characters from the right.
   right(2):123456 —> 56
- **mid(number of characters, number of characters)** Remove X characters from the left, remove Y characters from the right and leave the characters in the middle.

```
mid(2,2): 123456 -> 34
```

- lpad(number of positions, symbol) Complete the string to the length specified by the number of positions parameter by adding the value of the symbol parameter to the left (in front of the card number).
   lpad(12,0): 123456 —> 000000123456
- hex2dec() Transform the card number from hexadecimal mode to decimal mode.

*hex2dec(): 1000AB* —> *1048747* 

 dec2hex() – Transform the card number from decimal mode to hexadecimal mode.

dec2hex(): 1048747 -> 1000AB

- hex2bin Transform the card number from hexadecimal mode to binary mode. hex2bin(): 1000AB —> 1000000000010101011
- bin2hex Transform the card number from binary mode to hexadecimal mode. bin2hex(): 1000000000010101011 —> 1000AB
- dec2bin Transform the card number from decimal mode to binary mode. dec2bin(): 100023 —> 11000011010110111
- bin2dec Transform the card number from binary mode to decimal mode. bin2dec(): 11000011010110111 —> 100023
- reverse() Reverse the byte sequence, i.e. take all the characters by two and reverse the order of the pairs. (The last pair goes first, the second last goes second, etc.)

*reverse(): 1234AB —> AB3412* 

- reverseString() Reverse the character sequence. (The last character goes first, the second last goes second, etc.) reverseString(): 1234AB —> BA4321
- reverseNibbleBits() Convert each character from hexadecimal mode to binary mode, reverse the character sequence of each quadruple and convert the result back to hexadecimal mode.

reverseNibbleBits(): 10AB -> 0001 0000 1010 1011 -> 1000 0000 0101 1101 -- > 805D

- **upper()** Converts the string to upper case. *upper(): Abcd* —> *ABCD*
- plugin(reference) Calls a card transformation plugin with the given reference. This option enables using custom PHP scripts for the transformation. For more information about this option, contact MyQ support.
- asciiCode2ascii Converts ASCII characters encoded as hex-digits to ASCII characters.

asciiCode2ascii(): 414F —> AO

"string 1" + "string 2" – Merges the strings in front of and behind the + command.

"string 1":

- Either the initial card number (if there are no commands preceding the + symbol),
- or the result of the last command before the + symbol (if there are no + commands preceding the + symbol),
- or the result of the previous + command. "string 2":
- Either the initial card number (if there are no commands behind the + symbol or if the next command is another + command),
- or the result of the last command of the transformation (if there are no + commands behind the + symbol),
- or the result of the last command before another + command.

### ID card transformation example:

Card number: 10AB

Card code transformation: hex2bin();lpad(16,0);reverseString();ltrim(8);reverseString();bin2hex() + ltrim(4);lpad(4,10AB)

### Result: 1010AB

Transformation process: ("10AB" -> "1 0000 1010 1011" --> "0001 0000 1010 1011" --> "1101 0101 0000 1000" --> "0000 1000" --> "0001 0000" --> "10") + ("10AB"" --> "" --> "10AB") ==> "1010AB"

# 9.11.2 Generating PIN

On the **User authentication** settings tab, under **PIN**, you can select multiple options concerning PIN generation.

	C Settings: User Authentication
% Settings	Users > C User Authentication
<ul> <li>₽ Network</li> <li>♣ Authentication servers</li> <li>♥ SNMP</li> </ul>	✓ PIN User can change PIN:      ✓ Minimal PIN length:      4
<ul> <li>Printers &amp; Terminals</li> <li>Configuration Profiles</li> <li>Printer Discovery</li> <li>Terminal Actions</li> </ul>	Send new PIN via email: Generate PIN for users created by synchronization or manual input: 'Send new PIN via email' will be automatically checked Email with a new PIN
<ul> <li>Events</li> <li>Event Actions</li> </ul>	Subject: * MyQ: Your new PIN Message: * Your new MyQ PIN is: %PIN%
<ul> <li>Users</li> <li>Policies</li> <li>User Synchronization</li> <li>User Authentication</li> <li>Rights</li> </ul>	Please contact the administrator at %admin% in case of further requests Parameters: %pin%, %username%, %realname%, %admin%
Credit Credit Cuota Projects Price lists	
<ul> <li>Jobs</li> <li>Scanning &amp; OCR</li> <li>Code Books</li> <li>C% Reports</li> </ul>	Vour MyQ Please contact the administrator at %admin% in case of further requests Parameters: %code%, %username%, %realname%, %admin%
	C Revert values

#### Users can change PIN

With this option selected, the users can generate a new PIN on their account on the MyQ Web User interface, by clicking **Generate PIN** on the **Home** screen of their user account.

#### **Minimal PIN length**

This option determines the mandatory minimum PIN length. The number can be set between 4 and 16.

If the administrator creates the PIN manually, it cannot be shorter than the value set in this field. If the PIN is generated by the system, it cannot be shorter than the value in this field, and also cannot be shorter than the minimal value enforced by the number of users, described below.

The required minimal PIN length that depends on the number of MyQ users is:

- < 1000 4-digit pin is required
- 1000 10 000 5-digit pin is required
- 10 000 100 000 6-digit pin is required

The required minimal length lowers the chance of randomly guessing the PIN. Also, trivial PINs, such as *1111* or *22222*, are excluded from the automatic PIN generation process.

If the administrator increases the **Minimal pin length** value, a pop-up will prompt them to generate new PINs for all the active users. If the administrator chooses to generate new PINs, the old PINs will be deleted and new PINs will be automatically sent via email to all the active users. Otherwise, the old, potentially shorter PINs will be kept.

Generate PIN >	×
Do you want to delete existing PINs and generate new PINs to all the active users? Users must have an email address PIN length: 6	5
Cancel	

#### Generate PIN for users created in synchronization or manual input

With this option selected:

- A new PIN is generated for new, manually created users.
  - A manually created user without an email address will not receive the new PIN via email.
- During **User synchronization**, a new PIN is generated for every user that does not already have a PIN.
  - PINs are generated only for users with an email address. Users without an email address are skipped.

#### Send new PIN via email

With this option selected, users are sent an email informing them about the new PIN every time a new PIN is generated.

This is automatically checked if the above option (Generate PIN for users created in synchronization or manual input) is selected.

There are also email templates you can use for informing the users about their new PIN (**Email with a new PIN**) or for providing them with a reset code in case of a lost/ forgotten PIN (**Email with the PIN reset code**). The templates are editable and the values can be reset to their defaults if needed, by clicking **Revert values**.

# 9.11.3 Password complexity

In this section, the administrator manages the password complexity of MyQ users accounts.

- **Minimum length** set the minimum character length for the password, in range *1-100 (8 by default).*
- **Enforce password complexity** set how many of the four password complexity rules are to be enforced (2 by default):
  - At least one upper-case letter
  - At least one lower-case letter
  - At least one number
  - At least one special (non-alphanumeric) character

<ul> <li>Password complexity</li> </ul>	
Minimum length: *	8
Enforce password complexity: *	2 of 4 rules
	At least one upper-case letter
	At least one lower-case letter
	At least one number
	At least one special (non-alphanumeric) character

# 9.11.4 External Authentication

In this section, the MyQ administrator can set an external database/server for user authentication.

<b>≡ MYQ</b>	Settings: User Authentication	
🔉 Settings	Users • 🕜 User Authentication	1
<ul> <li>₽ Network</li> <li>▲ Authentication servers</li> <li>♥ SNMP</li> </ul>	<ul><li>Cards</li><li>PIN</li></ul>	
Printers & Terminals	Password complexity	
Configuration Profiles     Printer Discovery	▼ External Authentication	
Terminal Actions	Enabled:	
Events	URL: *	http://10.1.4.75/external/Auth/
🖗 Event Actions	User name:	admin
<b>R</b> Users	Password:	
<ul> <li>Policies</li> <li>User Synchronization</li> </ul>	~	ID Card     PIN
User Authentication       Rights	Use only if authentication against v MyQ DB fails:	Test connection
Accounting		
💣 Credit		Cancel
Quota	Fields marked by * are mandatory.	

This feature is disabled by default. To use it, set it to **Enabled** and fill in the required information:

- URL: type the URL to connect to
- **User name**: type the user name required for the connection to the external server via API
- **Password**: type the password required for the connection to the external server via API
- Login method: choose the users login method ID Card or PIN
- Use only if authentication against MyQ DB fails: select this option if you want to only use external authentication when the authentication against the MyQ DB fails

You can test the connection to the server by clicking the **Test connection** button.

# 9.12 Policies

The **Policies** settings tab is divided into two sections. The **Print job policy** section contains settings that apply to all print jobs, all printers and selected users or groups.

The **Printer policy** section contains settings that apply to all queues, all print jobs, selected users (or groups) and selected printers.

**Print job policies** have the highest priority. Settings in the **Printer policy** section apply to all queues and all of the selected users, regardless of the settings of queues and print job policies.

Policies in both sections are listed in order of precedence: every policy has a higher priority than all the policies below it. If two policies are in conflict, the policy that is higher on the list applies. The default policy has the lowest priority and is always at the bottom of the list, other policies can be moved up and down the list by clicking the left or right arrow buttons on the **Policies** settings tab toolbar.

$\equiv$ <b>MYQ</b> $_{\bigcirc Home}$	Settings: Policies					~
Settings	Users • 🕑 Policies			💽 Add 👻 🧷 Edit 🔹 Enat	led 1 + $  imes $ $\stackrel{<}{\sim}$ Refresh   S	how effective polic
Network	Status Users	Printers	Policies	Description	Туре	
Authentication servers	Print job policy					
SNMP			Keep jobs for reprint: Yes Color: Do not change			
Printers & Terminals			Duplex: Do not change Staple: Do not change			
Configuration Profiles     Printer Discovery	<ul> <li>All users</li> </ul>		Punch: Do not change Toner saving: Do not change Change color: Allow Change duplex: Allow	Default policy	Pri	
Terminal Actions						
Events			Change staple: Allow Change punch: Allow			
Kernet Actions			Change toner saving: Allow Change copies: Allow			
S Users	Printer policy					
Policies			Print: Yes			
A User Synchronization		<b>2</b>	Copy: Yes Full color copy: Yes			
<ul> <li>User Authentication</li> <li>Rights</li> </ul>	• 🍂 All users	C All printers	Scan: Yes Fax: Yes Device access level: User	Default policy	Pri	
Accounting						

# 9.12.1 Print job policies

#### Print job policies settings

To open a print job policy properties panel, double- click the print job policy on the **Policies** settings tab list, under **Print job policy**.

Each print job policy panel is divided into four sections:

- In the upper section, you can enable or disable the policy, select the **Users and Groups** of users that it will apply to, and add the policy's **Description**.
- In the **General** section, mark the checkboxes to be able to modify it and choose *Yes/No* if you want to **Keep jobs for reprint**.
- In the **Job Settings Defaults** section, mark the checkboxes to be able to modify the below settings:
  - **Color**: Do not change, Force mono, Revert force mono
  - **Duplex**: Do not change, Simplex, Duplex long edge, Duplex short edge
  - **Staple**: *Do not change, Yes, No*
  - **Punch**: *Do not change, Yes, No*
  - Toner saving: Do not change, Yes, No
- In the **Permissions** section, mark the checkboxes to be able to modify the settings and you can choose whether to *Allow* or *Deny* them:
  - Change color
  - Change duplex
  - Change staple
  - Change punch
  - Change toner saving

#### • Change copies

Click **Save** and your new **Print job policy** appears in the **Policies** list.

### Default print job policy

The **Default policy** applies to all users and has no restrictions. Except for its name and scope, all the settings of this policy can be changed.

You can restore the default settings by clicking **Restore defaults** on the top-left corner of its panel.

⊘ Default policy	×
Restore defaults	
Enabled:	
Users and Groups:	ନ୍ଧୁ All users
Description:	Default policy
▼ General	
Keep jobs for reprint:	Yes 💌
▼ Job Settings Defaults	
Color:	Do not change
Duplex:	Do not change 🔹
Staple:	Do not change 🔹
Punch:	Do not change 🔹
Toner saving:	Do not change 🔹
<ul> <li>Permissions</li> </ul>	
Change color:	Allow
Change duplex:	Allow
Change staple:	Allow
Change punch:	Allow
Change toner saving:	Allow
Change copies:	Allow
	/ Save Cancel
Fields marked by * are mandatory.	

### Adding new print job policies

- On the bar at the top of the **Policies** settings tab, click **+Add**, and then click **+Add print job policy**. The new print job policy properties panel opens on the right side of the screen.
- 2. On the panel, select the users or group of users that the policy will apply to, optionally write a description of the policy, change its settings, and then click **Save**.

The new policy appears on the **Policies** setting tab, under **Print job policies**.

With all the **Permissions** set to *Deny*, users are not able modify their jobs on the MyQ Embedded terminals.

With the **Keep jobs for reprint** setting set to *No*, users are not able to add their jobs to **Favorites** on their account on the MyQ Web Interface or on MyQ Embedded terminals and they cannot reprint old jobs on the embedded terminals either.

The **Keep jobs for reprint** setting is also available when configuring a queue. The following combinations between the Keeps jobs for reprint Policy and Queue setting are available:

- Policy ON + Queue ON The print job file is saved and can be reprinted even when not marked as favorite.
- Policy ON + Queue OFF The print job file is saved only when marked as a favorite before printing. Favorite jobs can be reprinted.
- Policy *OFF* + Queue *ON* The print job files are always saved, but because of the policy they cannot be reprinted or marked as favorite by the users. If the Policy is changed to *ON*, then the jobs can be reprinted later.
- Policy *OFF* + Queue *OFF* The print job files are always deleted right after printing, cannot be reprinted or marked as favorite. If the Queue or Policy is changed to *ON*, jobs cannot be reprinted anyway.

# 9.12.2 Printer policies

### **Printer policies settings**

To open a printer policy properties panel, double-click the printer policy on the **Policies** settings tab, under **Printer policies**.

Each printer policy panel is divided into three sections:

- In the uppermost section, you can enable or disable the policy, select the **Users and Groups** of users that it will apply to, select the **Printers** that it will apply to, and write the policy description.
- In the **Allowed Actions** section, you can restrict access to particular operations on the selected printing devices. The available operations are:
  - Print
  - Сору
  - Full color copy
  - Scan
  - Fax
- In the **Other policies** section, you can provide users with administrator access to printing devices via the embedded terminal menu. For some devices, this option is not supported.

### Default printer policy

The **Default policy** applies to all users, all printers, has no restrictions and gives users **User access** to embedded terminals. Except for its name and scope (It applies to all users and all printers), all settings of this policy can be changed.

You can restore the **Default policy** default settings by clicking **Restore defaults** on the top-left corner of its panel.

Oefault policy		×
Restore defaults		
Enabled:		
Users and Groups:	😤 All users	-
Description:	Default policy	
Printers:	All printers	
▼ Allowed Actions		
Print:	Yes 💌	
Сору:	Yes 🔹	
Full color copy:	Yes	
Scan:	Yes 💌	
Fax:	Yes 💌	
▼ Other policies		
Device access level:	User 💌	
	Cancel	
Fields marked by * are mandatory.		

#### Adding new printer policies

- On the bar at the top of the **Policies** setting tab, click **+Add**, and then click **+Add printer policy**. The new policy properties panel opens on the right side of screen.
- On the panel, select the users or group of users that the policy will apply to, optionally write a description of the policy, change its settings, and then click Save. The new policy appears on the Policies settings tab, under Printer policy.

### 9.13 Rights

On the **Rights** settings tab, you can provide users or groups of users with administrator rights or provide them with rights to run one or more of the MyQ agendas: they can perform actions, change settings or see information that are inaccessible under a standard user account. On the tab, you can add users or groups and provide them with the rights.

<b>≡ MYQ</b>	Settings: Rights		
Settings	Users 🕨 🕜 Rights		
₽ Network	Add User		
Authentication servers	Name Rights		
Printers & Terminals	Recharge credit		
<ul> <li>Configuration Profiles</li> <li>Printer Discovery</li> <li>Terminal Actions</li> <li>Events</li> <li>Event Actions</li> <li>Visers</li> <li>Policies</li> <li>User Synchronization</li> <li>User Authentication</li> <li>Rights</li> <li>Accounting</li> </ul>	<ul> <li>Administrator</li> <li>Boost quotas</li> <li>Manage jobs</li> <li>Manage licenses</li> <li>Manage payments</li> <li>Manage printers</li> <li>Manage projects</li> <li>Manage queues</li> <li>Manage reports</li> <li>Manage settings</li> <li>Manage vouchers</li> <li>Read jobs</li> <li>Recharge credit</li> </ul>		
🔂 Credit	♂ View log ♂ View printers		
<ul> <li>Quota</li> <li>Projects</li> <li>Price lists</li> </ul>	<ul> <li> <i>G</i><sup>P</sup> Boost quotas <i>G</i><sup>P</sup> Manage licenses <i>G</i><sup>P</sup> Manage payments <i>G</i><sup>P</sup> Manage projects         </li> </ul>		
<ul> <li>Jobs</li> <li>Scanning &amp; OCR</li> <li>Code Books</li> </ul>	Manage queues Managers Manage reports Manage vouchers		
C Reports	♂ Recharge credit ♂ View printers		

On the toolbar at the top, you can:

- Add user add a new user or group with assigned rights.
- Edit edit an existing user or group with assigned rights.
- Delete delete a user or group with assigned rights.
- **Refresh** refresh the list of users and groups.
- **Search** search for a user or group with assigned rights. You can either use user names or rights for filtering your search results.
- If the server is used as a Site server, user rights are managed by the Central server. The rights are visible in the Site server's Rights settings, but are non-editable.

### 9.13.1 Providing users and groups with rights

To add a new user or a group of users to the list on the **Rights** settings tab:

- 1. On the **Rights** settings tab, click **+Add User**. The Select user or group dialog box appears.
- 2. In the dialog box, select the user (or group) and click **OK**. The rights panel opens.
- 3. Select the user (or group) rights.
- 4. Click **OK**. The user (or group) appears on the list on the **Rights** settings tab along with the assigned rights.

Users 🕨 🥜 Rights
Add User
▼ General
Administrator
Boost quotas
Manage jobs
Manage licenses
Manage payments
Manage printers
Manage projects
Manage queues
Manage reports
Manage settings
Manage users
Manage vouchers
Read jobs
Recharge credit
View log
View printers
V OK Cancel

# 9.13.2 Editing users' rights

To open the user rights properties panel (or the group rights panel), double-click the user (or the group) on the list of users and groups on the **Rights** settings tab. The panel appears on the left side of the screen.

In the user rights panel, under the **General** section, you can assign rights concerning the general run of MyQ. These rights are described below:

- Administrator The user is provided with administrator (\*admin) rights.
- Boost quotas The user gets access to the Quota Boosts main tab.
- Manage jobs The user can edit other users' jobs.
- Manage licenses The user can view and manage MyQ licenses on the License settings tab.
- Manage payments The user gets access to the Payments main tab.

- Manage printers The user gets access to the **Printers** main tab, to monitor printers and change their settings, as well as the **Printers & Terminals** settings tab and all its subsections, where they can modify settings.
- **Manage projects** The user gets access to the **Projects** main tab, can add projects and change their settings.
- **Manage queues** The user gets access to the **Queues** main tab and can change the settings there.
- Manage reports The user can manage all reports.
- Manage settings The user gets access to management of all settings on the Settings tab of the MyQ Web interface except for the settings on the Rights tab.
- Manage users The user gets access to the Users main tab, the Users settings tab and the Policies settings tab, can add users and change their settings and rights. The user also gets access to the Accounting settings tab, but cannot change the settings. Access to the Credit settings tab is granted, but the user is only allowed to change Users and Groups. Access to the Quota settings tab is granted, but the user is only allowed to change to change allowed to change Quota definitions, not Quota global settings.
- Manage vouchers The user gets access to the Voucher Batches main tab.
- Read Jobs The user can see other users' jobs.
- Recharge credit The user gets access to the Recharge credit main tab.
- View log The user can view the MyQ log.
- View printers The user gets access to the **Printers** main tab, to monitor printers.

# 10 Queues

This topic discusses one of the key functions of MyQ: setup and management of print queues. It covers the following subjects:

- Overview, adding and deleting queues: List of queues, Adding and deleting queues.
- Individual queues settings: Editing queues
- Direct, Tandem, Pull Print, and Delegated printing queue types: Queue types
- Ways of detecting users: User detection methods
- You can create collections of watermarks and associate them with queues: Watermarks
- Some extra options for queues: Advanced queue options

≡ r	ny <mark>q</mark>	Home	The Queues		⊗ 0
🖷 Qu	eues				🕀 Add queue   🦻 Actions 🔻 😁 Tools 💌   🎜 Search 🔍
Status	Name		▲ Туре	Printers	Issues
Pull Pri	int				
٠	Default		Pull Print	👌 Number of printers: 1	
٠	Email		Pull Print	👌 Number of printers: 1	
٠	Local		Pull Print	🗥 No printer	
٠	Web		Pull Print	👌 Number of printers: 1	

# 10.1 List of queues

On the **Queues** main tab, you can see queues and information about them. The queues are divided into groups according to their type: **Pull Print**, **Direct**, **Tandem**, and **Delegated printing**.

≡ myq	Home	🖷 Queues		
🚡 Queues				
Status Name		▲ Туре	Printers	Issues
Pull Print				
Default		Pull Print	🖨 Number of printers: 1	
Email		Pull Print	🖨 Number of printers: 1	
Local		Pull Print	🗥 No printer	
Web		Pull Print	🗟 Number of printers: 1	
Direct				
QueueX		Direct	🗥 No printer	
Tandem				
• HQ		Tandem	🗥 No printer	
Delegated printi	Ig			
<ul> <li>Marketir</li> </ul>	g	Delegated prin	ting 👌 Number of printers: 1	

# 10.1.1 Default queues

After installing MyQ, there are four default **Pull Print** queues on the **Queues** main tab: **Default**, **Email**, **Local**, and **Web**.

- **Default**: Pull Print queue where all users have access and all printers are assigned.
- Email: All jobs sent from email are assigned to this queue.
- Local: Used with locally connected printing devices (USB, LPT).
- **Web**: All jobs sent directly from the web user interface are assigned to this queue.

If you are using a MyQ Central and Site servers environment, the following queues are also available by default:

- Job Roaming: Job Roaming enables users to transfer their jobs from one location to another. Jobs sent to one branch are automatically assigned to this system queue and can be printed on printing devices at any other branch. This queue can only be used is a MyQ Central and Site servers environment; for more information, see the MyQ Central Server Installation Guide.
- Job roaming delegated: Delegated printing jobs used with job roaming are automatically assigned to this system queue. This queue can only be used is a MyQ Central and Site servers environment; for more information, see the MyQ Central Server Installation Guide.

# 10.2 Queue types

For each queue, except for the default queues, you can select from four options as to what happens with the jobs that are sent there. This section describes these four queue types.

# 10.2.1 Direct queue type

A direct queue can have only one printing device assigned to it. Print jobs in this queue are sent directly to the printing device and are immediately printed.

When you add printers using printer discovery, you can automatically create a direct queue for every newly discovered device.

# 10.2.2 Tandem queue type

A tandem queue can be used on places with multiple printers and a higher printing volume. Jobs sent to this queue are evenly distributed among the devices and do not have to wait for one particular printer. This way, a large volume of print jobs can be spread between printers and printed in a significantly shorter time.

The queue can have multiple printing devices assigned to it. Print jobs from the queue are distributed among the printing devices that are not busy at the moment and they are immediately printed. If there are multiple idle printing devices, the print job is sent to the printer with the lowest printed pages counter.

To maintain a balanced printing device load, make sure that the printed page counters on all of the used printing devices are similar. Otherwise the printing devices with the lower printed page counter might be overused.

You can manually change the page counter on the **Printer total counter adjust for load balancing:** setting on the printing device properties panel on the **Printers** main tab. The number that you enter is added to the counter.

### 10.2.3 Pull Print queue type

With this queue, users can send multiple jobs and print them when they want on any of the printers assigned to the queue.

The queue can have multiple printing devices assigned to it. All of the assigned printers have to be equipped with MyQ terminals. Jobs sent to a pull print queue are processed by the system and saved on the server.

Once the user logs in on any printer assigned to this queue, the print job is sent to this device and the user can print it.

To use a pull print queue, an embedded terminal or a hardware terminal is required.

For more information on embedded terminals, see:

- MyQ Canon Embedded
- MyQ Epson Embedded
- MyQ HP Embedded
- MyQ Kyocera Embedded
- MyQ Lexmark Embedded
- MyQ Ricoh SmartSDK Embedded
- MyQ Sharp Embedded
- MyQ Toshiba Embedded
- MyQ Xerox Embedded

### 10.2.4 Delegated printing queue type

The delegated printing feature enables users and groups of users to choose delegates who can print their print jobs. After the delegating user (or group of users) sends a job to the **Delegated printing** queue, all delegates can see the jobs and print them. For further information about the **Delegated printing** feature, see Delegated printing.

The **Delegated printing** queue type works in the same way as the **Pull Print** queue type, except that it supports the delegate printing feature.

The delegates do not need to have rights to the delegated printing queue where the job was sent.

# 10.3 Adding and deleting queues

### 10.3.1 Adding a queue

- 1. On the **Queues** main tab, click **+Add queue**. The new queue properties panel opens on the right side of the screen.
- 2. On the panel, add a **Name** for the queue, select a **Type**, further modify the queue's settings (Queues general settings), and click **Save**.

### 10.3.2 Deleting a queue

- 1. On the list of queues on the **Queues** main tab, select the queues that you want to delete, and then click **Actions** (or right-click the queue). The Actions drop-down box appears.
- 2. In the **Actions** drop-down box, click **Delete**. The queues disappear from the list.

### 10.4 Editing queues

Each individual queue has its own properties panel. To open the panel, double-click the queue on the list of queues on the **Queues** main tab (or right-click the queue, and then click **Edit**). The properties panel opens on the right side of the screen.

🚡 Quei	ueX				×
General	Job receiving	MyQ Desktop Client	Job processing	Printers	Rights
					_
▼ Queu	e				
	Name: *	QueueX			
		[a-Z] [0-9] , ' ' § { } Use this name also as th print driver	e queue name in the	LPR port set	tings in the
		Only 32 character long n	ame is allowed by W	indows drive	er
	Type: *	ODirect			
		O Tandem			
		Pull Print			
		<ul> <li>Delegated printin</li> </ul>	g		
	Priority:				
Keep j	obs for reprint: *	Yes	•		
▶ Outp	ut to printer				
Polici	es				
		✓ Save	Cancel		

Fields marked by \* are mandatory.

The basic setup of a queue can be done in four tabs: the **General** tab, the **Job receiving** tab, the **Printers** tab, and the **Rights** tab.

### General tab settings

- **Name** Enter a name for the queue. This is an essential parameter for directing print jobs to MyQ and it is part of the print port setting. It is unique, case sensitive and cannot contain diacritics and spaces. This entry is mandatory.
- **Type** Select a type for the queue. The available queue types are: *Direct*, *Tandem*, *Pull Print*, and *Delegated Printing*. For more information, see Queue types.

#### Jobs receiving tab settings

- **User detection method** Here you can set the user detection method. For more information, see User detection methods.
- Get job name from PJL This gives you the option to discard a job when it comes without metadata.

🚡 QueueX	×
General Job receiving	MyQ Desktop Client Job processing Printers Rights
▼ Job parsing	<b>^</b>
Default printer language: *	Autodetect   If there is no PJL in the job specifying the print language, the default language is assumed.
Discard the job if no metadata:	
User name is case sensitive:	
User detection method: *	Job sender 💌
Regular expression:	
Get job name from PJL:	✓ Add
	PJL Variable Regular expression
	JOBNAME
	JOB NAME
	SET JOBNAME
Get computer name from PJL:	
Jobs via RAW protoco	ы
Jobs via hot folder	
Jobs via MS Universa	l Print
	✓ Save Cancel

#### Printers tab settings

By default, the **All printers** group is automatically assigned to every queue. You can delete this group to restrict the number of assigned printers.

To add a printing device or a group of printing devices to the queue:

- 1. On the bar at the top of the **Printers** tab, click **+Add**. A search dialog box appears.
- 2. In the dialog box, find the printing device (or group of printing devices) that you want to add to the queue, and then click **OK**.

To remove a printing device or a group of printing devices from the queue:

1. On the bar at the top of the **Printers** tab, select the printing device (or group of printing devices), and then click **–Remove**. The printing device (or group of printing devices) disappears from the **Printers** tab.

📹 QueueX		×
General Job receiving	MyQ Desktop Client Job processing	Printers Rights
(+) Add (-) Remove		
Name	Details	
G Office Printer	10.12.10.123	

#### **Rights tab settings**

By default, the **All users** group is automatically assigned to every queue. You can delete this group to restrict the number of users with the right to use the queue.

To provide a user or a group of users with rights to the queue:

- 1. On the bar at the top of the **Rights** tab, click **+Add User**. The Select user or group dialog box appears.
- 2. In the Select user or group dialog box, select the user (or group of users) that you want to provide with rights to the queue, and then click **OK**.

🚡 Quei	ıeX				×
General	Job receiving	MyQ Desktop Client	Job processing	Printers	Rights
🕀 Add U	lser   🖉   🗙	Search Q			
Name		Rights			
📯 All us	ers	🕜 Use queue			

To remove the rights to the queue from a user or a group of users:

 On the **Rights** tab, select the user (or group of users), and then click the remove button (X). The user (or group of users) disappears from the **Rights** tab.

# 10.5 Online/Offline queues

While the default queues are always online, each of the manually added queues can be switched to the offline mode. Queues switched to the offline mode do not receive any print jobs. However, users can still print jobs that are already waiting in these queues. Jobs sent to an offline queue are rejected with the log message: "Unknown or inactive queue '...'. The job was discarded." displayed in the log, on the **Log** main tab of the MyQ Web Interface.

To switch between the online and offline mode of a queue:

- 1. Select the queue from the list on the **Queues** main tab, and then click **Actions** (or right-click the queue). The Actions drop-down box appears.
- 2. In the Actions drop-down box, click **Offline** (or **Online**). The queue switches to the offline or (online mode).

Status Name	▲ Туре	Printers     Issues
ull Print		
Default	Pull Print	👌 Number of printers: 1
Email	Pull Print	👌 Number of printers: 1
Local	Pull Print	\Lambda No printer
<ul> <li>Web</li> </ul>	Pull Print	👌 Number of printers: 1
Direct QueueX		G Office Printer
	Edit Install Windows printer	
■ HQ	Donline	\Lambda No printer
		🚹 No printer

# 10.6 Personal Queues

Personal queues in MyQ enable users to select the queues where their print jobs are sent to. The users can create multiple queues to ascertain that at least one of them has available printing devices where the job can be released.

If a user is not allowed to send the job to the currently checked personal queue, MyQ skips it and moves to the next one. If all personal queues are skipped, the job is sent to the queue set on the print port.

### 10.6.1 Activating the feature

To activate personal queues:

- 1. On the Users settings tab, select the Enable personal queues settings option.
- 2. On the properties panel of the queue where the user's jobs are sent to by the print driver, add the PHP script shown below. The script moves the jobs to the first available personal queue of the user.

// get all user's queues sorted by priority
\$personalQueues = \$this->owner->personalQueues;
// loop them

#### foreach (\$personalQueues as \$q) {

// skip queue if no printer is available
if (\$q->isAnyPrinterAvailable() === false) {continue;}
// queue printer is available, move job to queue
\$this->moveToQueue(\$q->name);
// job is moved, stop the loop
break;}

After the feature is set up, each user can see a button for setup of their personal queues on their account on the MyQ Web Interface.

### 10.6.2 Setting personal queues

Once the feature is activated, both the MyQ users and the MyQ administrator can add and delete personal queues.

#### MyQ Users

Users add and delete the personal queues on their user account on the MyQ Web Interface. To do this, they need to log in to the interface, then click **Personal queues** there, and lastly set the queues in the Personal queues dialog box.

User profile
User name: eliot.kate
Full name: Eliot Kate
Email: joachim@myq-solution.com
Default language: -
Construction of the second sec

After the user sends the job, MyQ checks the personal queues and sends the job to the first queue with available printing devices.

#### MyQ Administrator

The MyQ administrator adds and deletes the user's personal queues on the **Queues** tab of the user's properties panel on the **Users** main tab in the MyQ Web Administrator Interface. To access the tab, open the **Users** main tab (**MyQ**, **Users**), then double-click the user (or right- click the user, and then click **Edit** on the shortcut menu) to open the properties panel, and lastly click **Queues** on the panel.

On the **Personal queues** section, add and/or delete personal queues for the user.

🕂 Carol Kai	🖓 Actions 💌 🗙
General Groups Queues	Delegates
Name	Туре
Default	Pull Print
Email	Pull Print
HQ	Tandem
Marketing	Delegated printing
QueueX	Direct
Web	Pull Print

🚡 Personal que	eues	
The queue at the top	of the list has the highest priority	
Personal	The QueueX mark	
queues:	Marketing • Delegated printing	
	Save Cancel	

# 10.7 Advanced queue options

Once you have created a queue and set the basic options, like the name, type, printers and rights assignments, you can select some of the more advanced queue and job management features:

- General
- Job receiving
- Job processing
- MyQ Desktop Client
- Job Scripting

# 10.7.1 General tab

Available advanced settings on a queue's general tab:

### Queue section

• **Priority**: When multiple jobs from pull print queues are to be released at the same time, the jobs

that are sent to the queues with a higher priority are released before the jobs with lower priority. For example, if there are three jobs waiting to be released on a printing device, one with a priority number 0, one with a priority number -1 and one with a priority number 2, the job with the priority number 2 is printed first, the job with the priority number -1 is printed third.

• Keep jobs for reprint: Yes, No. The Keep jobs for reprint setting is also available when configuring a Print Job Policy. You can find the available combinations in Print Job Policies.

#### Output to printer section

🚡 Quei	ueX				×
General	Job receiving	MyQ Desktop Client	Job processing	Printers	Rights
▶ Queu	e				
▼ Outp	ut to printer				
	Protocol: *	Raw	•		
	Port: *	9100			
Use	Fiery if available:				
Polici	ies				
		✓ Save	Cancel		
Fields mar	ked by <b>*</b> are manda	tory.			

- **Protocol**: By default, print jobs are sent from MyQ to printing devices via the Raw protocol. Instead of it, you can use one of the alternative standard protocol options (*IPP, IPPS* or *LPR*) or the MyQ printing protocol, which can be used in two versions:
  - MPP: jobs sent via this protocol are compressed
  - MPPS: jobs sent via this protocol are compressed and encrypted via SSL
- **Port:** Here you can change the port of the selected protocol.
- Use Fiery if available: If you use a Fiery module for processing Postscript jobs, make sure that this option is selected and set the IP address of the module on the properties panel of the printing device to which the module is connected. Otherwise, you can deselect the option.

#### **Policies section**

The final job settings are a combination of these queue settings, user policies and user changes made on the embedded terminal. All settings are set to *Do not change* by default.

🚡 QueueX				×
General Job receiving	MyQ Desktop Client	Job processing	Printers	Rights
▶ Queue				
Output to printer				
▼ Policies				
Final internettionen and a secolar	ation of these settings and	the guesse user nel	icies and cha	nges made
Final job settings are a combin on the embedded terminal.	ation of these settings on	i the queue, user poi	icies and cha	nges made
	Do not change	dueue, user poi		nges made
on the embedded terminal.		<ul> <li>the queue, user point</li> <li></li> </ul>	icies and cha	nges made
on the embedded terminal. Color: *	Do not change	<ul> <li>The queue, user point</li> <li>The queue, user point&lt;</li></ul>		nges made
on the embedded terminal. Color: * Duplex: *	Do not change Do not change Do not change	<ul> <li>The queue, user point</li> <li>The queue, user point&lt;</li></ul>		nges made
on the embedded terminal. Color: * Duplex: * Staple: *	Do not change Do not change Do not change	<ul> <li>the queue, user por</li> <li></li> <!--</td--><td></td><td>nges made</td></ul>		nges made
on the embedded terminal. Color: * Duplex: * Staple: * Punch: *	Do not change Do not change Do not change Do not change	Cancel		nges made

- Color: Do not change, Color, B&W
- Duplex: Do not change, Simplex, Duplex long edge, Duplex short edge
- Staple: Do not change, No, Yes
- Punch: Do not change, No, Yes
- Toner saving: Do not change, No, Yes

### 10.7.2 Job receiving tab

On the **Job receiving** tab of each queue, you can set how a job is parsed and other job receiving options.

🖷 QueueX				×
General Job receiving	MyQ Desktop Client	Job processing	Printers	Rights
<ul> <li>Job parsing</li> </ul>				
Jobs via RAW proto	col			
Jobs via hot folder				
Jobs via MS University	al Print			
Jobs via mobile dev	ices			
	✓ Save	Cancel		
Fields marked by * are man	latory.			

#### Job parsing section

• **Default printer language**: Choose the default printer language from the dropdown menu. The available options are:

- Unknown
- **Autodetect** (default setting)
- PCL 5
- PostScript
- ESC/P
- Prescribe
- PCL 6
- PDF
- JPEG
- XPS

If there is no PJL in the job specifying the print language, the default language is assumed.

• Discard the job if no metadata: If this option is selected, MyQ discards all jobs that do not contain metadata from the Job Parser. It can be used together with the **Credit** or **Quota** features to prevent printing jobs without necessary information (number of pages, color etc.). When a job is discarded due to this setting, the following message appears in the MyQ Log: "Job metadata is required for the queue but the job parser is turned off. Job is canceled. | queue=QueueX".

If you select this option, make sure that the Job Parser is enabled. In new installations the Job Parser is activated by default.

- User name is case sensitive: If you have a case sensitive operational system, such as LINUX, where you can create two users whose user names differ only in cases, for example users *juliette* and *Juliette*, you should select the User name case sensitive option. With this option selected, MyQ differentiates between two users that differ only in the case used. For example, if the user *Juliette* is registered in MyQ (and the user *juliette* is not) MyQ rejects jobs sent from the OS account *juliette*.
- **User detection method**: Select how the job owner is identified (*Job sender* by default). Described in detail in user detection methods.
- **Regular expression**: You can use regular expressions to capture a part of the string that MyQ detects within any of the user detection methods. MyQ uses regular expressions with the ECMAScript engine, meaning that the first captured group is used: first, MyQ finds the first match for the regular expression, and then it identifies the job owner with the first group captured in the match. This way you can search for a string and define which part of it will be identified as the job owner. For example, you can use the regular expression to find an email address in the detected name string and use the group capturing to save just the part preceding the @ symbol.
- Get job name from PJL: With this option enabled, MyQ takes the job name from the @PJL JOB NAME parameter in the PJL header instead of detecting it from the LPR protocol. Click +Add to enter PJL variables and regular expressions, Edit to modify any existing variables, Test to actually test if your regular expressions work, and X to delete a variable/regex set. The job name in the PJL header may differ from the printed document's name. In the below example, you can see how a variable/regex set works, and if it manages to find the job name from the PJL header:

In the **Text to test** field, there should be the text from the print job's PJL header:

@PJL JOB NAME = "test-file.pdf"

- In the **PJL Variable** field, there should be the *JOB NAME* variable, or any other variable used to detect the job name.
- In the **Regular expression** field, there should be the regular expression you want to use in order to detect the job name. In the example, the ([^\.]+) regex takes all characters before it reaches dot (which is specified as "\." backslash is required in case of dot, because it is one of the special characters).

After clicking **Test**, the test result is displayed at the bottom. In this example, *test-file* was successfully detected.

Regular express	sion 1	test				×
Text to t	est:	@PJL JO	B NAM	E = "test-fi	le.pdf"	
PJL Varia Regular expressi		JOB NAM ([^\.]+)	ИE			
- ·	٩	Regular ex used. Test		with ECMA	Script engine. First	captured group is
test-file						

 Get computer name from PJL: With this option enabled, MyQ takes the computer name from the PJL header instead of detecting it from the LPR protocol. Click +Add to enter PJL variables and regular expressions, Edit to modify any existing variables, Test to actually test if your regular expressions work, and X to delete a variable/regex set.

In the below example, you can see how multiple variable/regex sets work, and if MyQ manages to find the computer name from the PJL header:

- In the **Text to test** field, there should be the text from the PJL header: @PJL SET JOBATTR = "JobAcct1=user"
  - @PJL SET JOBATTR = "JobAcct2=NB-XYZ"
  - @PJL SET JOBATTR = "JobAcct3=MYQ"
- In the **PJL Variable** field, there should be the *SET JOBATTR* variable, or any other variable used to detect the computer name.
- In the Regular expression field, there should be the regular expression you want to use in order to detect the computer name. In the example, there are three attributes, so the *JobAcct2=(.\*)* regex is supposed to search and take all the characters from the *JobAcct2* attribute.

After clicking **Test**, the test result is displayed at the bottom. In this example, *NB-XYZ* was successfully detected.

Regular expression t	est	×		
Text to test:	@PJL SET JOBATTR="JobAcct1=user" @PJL SET JOBATTR="JobAcct2=NB-XYZ" @PJL SET JOBATTR="JobAcct3=MYQ"			
PJL Variable: SET JOBATTR				
Regular expression: JobAcct2=(.*)				
	Regular expression with ECMAScript engine. First captured group is used.			
4	Test 🖌 🖌 Save 🗱 Close			
NB-XYZ				

#### Jobs via Raw protocol section

The RAW protocol is the default protocol for systems that do not use Windows OS and for standard TCP/IP.

The advantage of this protocol is that it sends data without further processing and has smaller packet headers.

As RAW comes without any job metadata, you must use a different port for each queue (starting from port *9100*). The used ports are added to Windows Firewall.

Click +Add next to Port and select a port.

🚡 Quei	ueX				×
General	Job receiving	MyQ Desktop Client	Job processing	Printers	Rights
► Job p	arsing				
▼ Jobs	via RAW protoco	bl			
	Port:	9100	×		
Jobs	via hot folder				
Jobs	via MS Universa	Print			
▶ Jobs	via mobile devic	es			
Fields mar	ked by * are manda	Save	Cancel		

Make sure that the queue has the following settings:

• **User detection method**: Select *User detection from PJL, MyQ Client* or *Detect user from the job name* 

- If *User detection from PJL* is selected, **+Add** the desired PJL variable(s) and regular expression(s)
- i Because there are no metadata, the queue is determined by the TCP port, the user always from the PJL and the sending computer is the client's IP address.

#### Jobs via hot folder section

In this section, you can associate the queue with one or multiple network folders where print jobs are stored.

If the folder is password protected, MyQ will use the credentials of the account MyQ service is running under.

The MyQ server will regularly monitor the network folder for new files. If there is new job in the folder, the MyQ server checks if it is supported for printing. Supported files will be downloaded and deleted from the folder, unsupported files will be deleted. The operation is logged in the MyQ log ("*job 123.prn was downloaded from* \ *\serverXYZ\folder1*", "*job 123.cpr was deleted from* \*\serverXYZ\folder1*, *file type is not supported*").

- Directly supported files: .prn, .pcl, .ps, .eps, .pdf, .jpg, .bmp, .tif, .png, .txt
- MS Office files are supported, but they are converted to PDF: .doc, .docx, .xls, .xlsx, .ppt, .pptx, .odt, .ods, .odp

Only the following user detection methods can be used: *Job sender*, *Detect user from the job name*, *User detection from PJL*.

Click +Add next to Hot folder and type the folder path.

🚡 QueueX				×
General Job receiving MyQ D	esktop Client	Job processing	Printers	Rights
<ul> <li>Job parsing</li> </ul>				
Jobs via RAW protocol				
▼ Jobs via hot folder				
Only the following user detection meth User detection from PJL Incompatible files are deleted.	nods can be used:	Job sender, Detect u	ser from the	job name,
Hot folder: (%app	%\Data\Jobs\U	pload	×	
(+) A	dd			
Jobs via MS Universal Print				
Jobs via mobile devices				
• • • • • • • • • • • • • • • • • • •	Save	Cancel		
Fields marked by * are mandatory.				

## Jobs via MS Universal Print

In this section, you can associate the queue with MS Universal print.

To do that, set the option to **Enabled**, and click **Save**. After a few minutes, your queue will be available as a virtual printer in MS Azure Universal Print.

<ul> <li>Jobs via l</li> </ul>	MS Universal Print
Only the follow	ing user detection methods can be used: Job sender.
Queue will be p	published in Microsoft Universal Print. It can take several minutes to apply the
changes.	
	Enabled:

#### **T**o use this option, you first need to set up MS Universal print.

## Jobs via mobile devices

In this section, you can make the queue available in the MyQ X Mobile Client, and in AirPrint and Mopria.

Mark the **Enabled** checkbox, and click **Save**.

🚡 QueueX					×
General Job	receiving	MyQ Desktop Client	Job processing	Printers	Rights
Job parsing					
P JOD parsing	,				
Jobs via RA	W protoco	bl			
Jobs via ho	t folder				
Jobs via MS Universal Print					
▼ Jobs via mobile devices					
Only the following user detection methods can be used: Job sender. The queue will be available in the MyQ X Mobile Client and via the AirPrint and Mopria printing technologies. It can take several minutes for the changes to apply.					
	Enabled:				
		✓ Save	Cancel		
Fields marked by	* are manda	tory.			
		ection method			

## User detection methods

**(i)** 

Only

One of the essential MyQ functions is to identify the owner of a sent print job. You can select from a number of identification options. The most common way is to identify the user as the OS account where the job was sent from (Job sender). If there are many users who send their jobs from one account, you can use one of the

three authentication options: *prompt for a PIN/card, prompt for a username and password or prompt the user to select from a list.* 

Apart from the above-mentioned options, MyQ offers several advanced identification options that can be used in special cases, such as if you want to use a DNS server to identify the user's computer or detect the user from the job name.

The available user detection methods are:

- Job sender
- Sender's computer name
- Print server's DNS name
- Sender's computer DNS name
- Detect user from the job name
- MyQ Desktop Client
- User detection from PJL

#### Job sender

The basic and most common user detection method option is to identify the owner as the OS user account where the job was sent from.

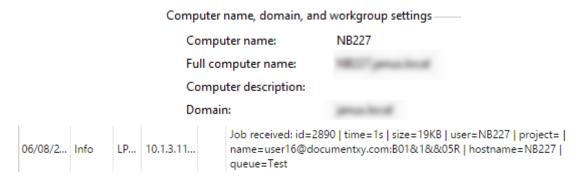
If the user logs on the account **Eliot.Kate** and sends the job from there, MyQ identifies them as **Eliot.Kate**.

#### Sender's computer name

With the **Sender's computer name** option selected, the job owner is identified as the name of the computer where the job is sent from. This way, it does not matter on which OS account the sending user is logged in, and all jobs are accounted on the computer.

By default, the **Computer detection method** is set to *Default* mode. This is the standard setting that works in almost all cases. For information about alternative options, please contact your MyQ support.

A regular expression can be used to capture a part of the detected string.



#### Using a DNS server to resolve the job owner

With the two user detection method options: **Print server's DNS name** and **Sender's computer DNS name**, a DNS server is used to resolve the job owner as one of the two respective values:

1. **Print server's DNS name** : The computer or server where the print driver is installed. If the DNS server succeeds in resolving the server IP address, the job owner is identified with the server name; otherwise the job owner is identified with the IP address.

```
05/31/2... Info LPR ... 10.1.3....
```

2. **Sender's computer DNS name**: The computer where the job is sent from. If the DNS server succeeds in resolving the computer IP address, the job owner is identified with the computer name; otherwise the job owner is identified with the IP address.

```
        05/31/2...
        Info
        LPR ...
        10.1.3....
        Job received: id=2772 | time=1s | size=88KB | user=10.1.3.110 | project=

        Iname=user16 | hostname=10.1.3.110 | queue=Test
        Iname=user16 | hostname=10.1.3.110 | queue=Test
        Iname=user16 | hostname=10.1.3.110 | queue=Test
```

The actual value depends on the location where the print driver is installed.

For example: If the print driver is installed on the print server Server 1 and shared with the computer *laptop100* where the user prints from, the values are different:

- When you select the **Print server's DNS name** method, the job owner is identified with the server, e.g. Server1.domain.com,
- When you select the **Sender's computer DNS name** method, the job owner is identified with the computer, e.g. laptop100.domain.com.

If the computer does not use shared drivers but sends the jobs via its own drivers, both values are the same.

A regular expression can be used to capture a part of the detected string.

#### Detect user from the job name

With the **Detect user from the job name** option, the job owner is identified with the name of the print job. This method can be used in cases where jobs are automatically generated and sent to print by external systems, such as ERP systems. These jobs can have a specific form where the user name is part of the job name, for example *user16@documentxy.com*.

🖷 QueueX				>
General Job receiving	MyQ Desktop Client	Job processing	Printers	Rights
User name is case sensitive:	0			
User detection method: *	Detect user from the	job name		•
Only for LPR user:				
Regular expression:				

The **Only for LPR user** setting is displayed after you select the **Detect user from the job name** option. This setting allows you to combine the **Detect user from the job name** method with the **Jobs sender** identification method. The job owner is first detected as the job sender and only if the username matches the name entered in the **Only for LPR user** text box, the job owner is identified with the job name. This advanced user identification method may be required, for example, for some prints from the SAP system. Prints from SAP are usually not sent directly to printing devices, but first to the Windows spooler (SAP LPD or SAP Print) which processes and forwards the prints to the device. This service usually runs under the system account (*SYSTEM*), and therefore the job sender detected from each such job is *SYSTEM*. In such cases, you can enter the user *SYSTEM* in the **Only for LPR user** text box. MyQ detects the sender and if it is *SYSTEM*, it identifies the job owner as the job name.

### MyQ Desktop Client

This option is available on computers with either Windows or macOS. It requires the MyQ Desktop Client application running on the computer where the print job is sent from.

When a user sends a job to this queue, the job is automatically paused on the MyQ server and remains in the **Paused** status with the *\*unauthenticated* user as the job owner, until the user authenticates themselves via the MyQ Desktop Client application. Depending on the setting of the application's **Authentication method**, the user is prompted to either enter their PIN, swipe their card at a card reader, enter their user name and password, or select themselves on the list of all MyQ users. After the user is authenticated, the job's status on the MyQ server is changed to **Ready** and the job owner changes to the correct user name and it can be printed. If the user fails to authenticate themselves in MyQ Desktop Client, the job is rejected.

K MyQ	) Login	MyQ Login	Į	Ľ	MyQ Login 🛛 🗙
Pending Jobs: 1		Pending Jobs: 1			Pending Jobs: 0 Select a user to login.
Enter PIN or swipe you	ir card to login.	Enter username & password to login.			myQ
		myç			Search MyQ (MyQ)
my <mark>q</mark>	PIN Card	····y•			UserA (UserA) UserB (UserB)
A		💄 User Name			
		<b>A</b>			
Remember me: 🛩 1 Minute	OK	Remember me: V 1 Minute OK	-		Login

For information on how to install and set up MyQ Desktop Client, see the MyQ Desktop Client for Windows or macOS manuals.

In cases where there is no card reader connected to the computer where the users identify themselves from, users can type the card number instead of swiping it.

#### User detection from PJL

With the **User detection from PJL** identification option, MyQ detects the job owner from one of the command lines of the print job's PJL header.

!RISEM6;EXIT;+%-12345X@PJL JOB NAME="something 1 tom 051116 113449735" @PJL SET TIMEOUT=300 @PJL SET RESOLUTION=600 @PJL SET BIJSPERPIXEL=4 @PJL COMMENT="INFO:NUP 1; DUPLEX OFF; QTY 1; COLORMODE COLOR;" @PJL COMMENT="APP:C:\Program Files\Windows NT\Accessories\WORDPAD.EXE;" @PJL SET ECONOMODE=OFF @PJL SET ECONOMODE=OFF @PJL SET TOBNAME="Kai" @PJL SET JOBNAME="Something 051116 113449735" @PJL SET QTY=1 @PJL SET KCOLORMODE=COLOR @PJL SET KCOLORMODE=COLOR @PJL SET KCOLORMODE=COLOR @PJL SET KTRAPPING=2

To select the line that is used for the definition of the job owner, click **+Add** and enter the variable (*SET USERNAME*) in the **PJL Variable** field. You can enter multiple variable/regex sets by clicking **+Add** for each one in a new line. MyQ tries to find a PJL line containing the first defined variable, and then eventually repeats the search for the next variable, until it either finds a non-empty value with the definition of the job owner or there are no more variables to search for.

A regular expression can be used to capture a part of the detected string. If no regular expression is specified, the whole string of the PJL variable is used.

Click **Edit** to modify any existing variables, **Test** to actually test if your regular expressions work, and **X** to delete a variable/regex set.

User detection method: *	User detection from PJL			
	🕂 Add 🥜 Edit 🕖 Test	×		
	SET USERNAME	Regular expression		
	ОК	Cancel		

In the below example, you can see how a variable/regex set works, and if it manages to find the user by searching for the username in the email address from the PJL header:

• In the **Text to test** field, there should be the text from the print job's PJL header:

@PJL SET USERNAME = user.name@domain.tld

- In the **PJL Variable** field, there should be the *SET USERNAME* variable, or any other variable used to detect the job owner.
- In the Regular expression field, there should be the regular expression you
  want to use in order to detect the user name. In the example, the ([^@]+) regex
  checks if a character is not "@" and uses it, and "+" means to proceed with the
  next character. The result is that it takes all characters before it reaches "@".

After clicking **Test**, the test result is displayed at the bottom. In this example, *user.name* was successfully detected.

Regular expression	test ×		
Text to test:	@PJL SET USERNAME = user.name@domain.tld		
PJL Variable:	PJL Variable: SET USERNAME		
Regular expression:	([^@]+)		
	Regular expression with ECMAScript engine. First captured group is used.		
6	Test Save Close		
user.name			

## 10.7.3 Job processing tab

On the **Job processing** tab of each queue, you can enforce additional job processing actions by selecting one or more of the predefined job settings or by creating any number of custom PJL commands.

🚡 Quei	ıeX				×
General	Job receiving	MyQ Desktop Client	Job processing	Printers	Rights
▼ Water	rmark				
	Watermark:				•
▼ Custo	m PJL				
Custom P.	JL:				
@PJL SET @PJL SET	T JOBNAME=%job T USERNAME=%us T FULLNAME=%fu T PERSONALNUMB	ername%			
Parameters	: %jobname%, %us	ername%, %fullname%, %	personalnumber%		
▼ Script	ing (PHP)				
If scripting is used, it is recommended to enable the Job parser on the Settings > Jobs page					
Actions af	fter processing:				
<ul> <li>Custo</li> </ul>	m data processi	ng			
	ame for custom data processing:				
		✓ Save	Cancel		
		V Jave	Cancer		
Prologu	e/epilogue				
🕀 Add	🖉 Edit 🛛 🗴 De	elete			
Place		Page type	Descript	ion	
		The list is emp	oty		

### Watermark section

Choose your saved watermarks from the **Watermark** drop-down.

### Custom PJL section

In the **Custom PJL** field, you can set custom PJL commands to enforce other actions or provide additional information to the MyQ server. For example, you can use *@PJL SET PAPER=A*4 to enforce the A4 paper format or *@PJL* 

*COMMENT="USERDOMAIN:somedomain.com;"* to provide the MyQ server with the information about the domain of the printing user.

You can also use the following MyQ variables: *%jobname%, %username%, %fullname%, %personalnumber%*.

When you enter your own PJL sequence, it is necessary to enter the correct syntax. The command should always start with **@PJL**.

To be applied, a PJL command has to be supported by the printing device where the job is released. The information on what PJL commands are supported by a particular model of printing devices can be found in the documentation provided by the device manufacturer.

## Scripting (PHP) section

You can use PHP scripts to further process the job after it is received by the MyQ server. Together with the PJL options and customizable queues, PHP scripting provides you with a large variety of job management options, such as the distribution of jobs between printing devices based on their size or color.

Scripting is detailed in Job Scripting.

### Prologue/epilogue section

You can find further details in Prologue/epilogue.

## Prologue, Epilogue

Some printing devices brands support the Prescribe PDL (page description language), which can be used to set up special rules for additional modification of the printed output. For example, you can use Prescribe to add a custom header or footer to selected document pages or to the whole document.

In MyQ, these rules are part of the options available on the properties panels of print queues. For each queue, you can create custom rules by importing a text file with a set of Prescribe commands and selecting the part of the printed document the commands should be applied to.

Multiple rules can be defined for each queue.

#### Adding, editing, and deleting rules

The rules can be added and edited in the **Job processing** tab, on the **Prologue**/**epilogue** section of a queue's properties panel.

Go to the **Queues** main tab (**MyQ**, **Queues**), right-click on the queue where you want to set up the rules, and click **Edit** (or select the queue, click **Actions** on the bar at the top of the tab, and then click **Edit**, or double-click on the queue).

#### Adding rules to a queue

1. Open the queue's properties panel.

- 2. On the panel, click **Job processing**. The Job processing tab opens.
- 3. On the tab, in the **Prologue/epilogue** section, click **+Add**. A panel with the settings of the new rule opens at the bottom.
- 4. Set up the rule (see editing a rule below), and then click **Save**. The new rule is added to the list of rules on the **Prologue/epilogue** section.

Prologue/epilogue					
🕀 Add 🧷 Edit	× Delete				
Place	Page type		Description		
•				•	
Rule				×	¢
Place: *	Beginning of the document	•			
Page type:	[empty]				
Custom pages:					
File: *	(+) Add				
	Parameters: %username%, %fulln %queuename%, %jobname%, %p	,	1 1 2 1	%,	
Encoding: *		•			
Description:	[				
	✓ Save	Cancel			ľ

#### Editing a rule

To open the settings of a rule, double-click the rule on the **Prologue/epilogue** section. The settings open at the bottom of the panel. The available settings are:

- **Place:** The object defined by the Prescribe code can be placed to the *beginning* of the document, end of the document, beginning of selected pages, or end of selected pages.
- **Page type:** Here you can select the pages the Prescribe code will apply to: *All pages, Odd pages, Even pages* or *Custom pages*.
- **Custom Pages**: Here you can further specify the pages the Prescribe code will apply to.
- File: Here you can upload the text file with the Prescribe code.
- **Encoding:** Here you have to select the encoding that is used in the text file with the Prescribe code.
- **Description:** Here you can type a description of the rule. You will see this description in the rules overview.

Deleting a rule

- 1. Open the queue's properties panel.
- 2. On the panel, click Job processing. The Job processing tab opens.

3. On the tab, in the **Prologue/epilogue** section, select the rule, click **Delete**, and then confirm the action in the confirmation dialog box. The rule is removed from the panel.

## 10.7.4 MyQ Desktop Client tab

On the MyQ Desktop Client tab of each queue, you can set up accounting options and employ PHP scripts to set up interaction with MyQ users via dialog boxes displayed in MyQ Desktop Client on their computer.

🖷 QueueX	×
General Job receiving MyQ Desktop Client Job processing Printers	
Rights	
If any of MyQ Desktop Client options is enabled, print jobs sent to this queue are paused ar wait for authentication and user interaction via MyQ Desktop Client.	nd
~ Accounting	
Ask for project:	
Ask for payment account (credit, 🗹 quota, cost center):	
✓ User interaction	
If scripting is used, it is recommended to enable the Job parser on the Settings > Jobs pag	e
User interaction	
✓ Save Cancel	

If you have any form of accounting enabled (Credit, Quota, Projects), the **Accounting** section is visible and you can modify the settings for newly created queues. If accounting options are disabled, the section is not visible. If you disable any form of accounting and then re-enable it, the settings in the MDC tab are remembered.

- Mark the **Ask for project** checkbox if you want users to select projects before printing a job.
- Mark the Ask for payment account (credit, quota, cost center) checkbox if you want users to select a payment account before printing a job (enabled by default).

For more information, check the *MyQ Desktop Client* guides.

In the **User interaction** section, you can enable **User interaction** (described in User Interaction Scripting), add the script in the field, and click **Save**.

## 10.7.5 Job Scripting

PHP scripts can be used to further process a job after it is received by the MyQ server (Job Processor Scripting) or to provide users with basic interaction options via MyQ Desktop Client (User Interaction Scripting). An overview of classes and functions used can be found in Job Scripting Reference.

## **Job Processor Scripting**

A Job Processor script is a PHP code, which runs in the context of a job being processed. The script runs after a job has been parsed and all user/queue policies have been applied. It runs before the job is made ready or paused.

The typical usage of the script is the modification of the job based on its properties. For example:

```
if ($this->pageCount > 10) {
    $this->duplex = "longEdge";
}
```

In this example, if the job has more than 10 pages, it's released as duplex. *\$this* is the job being processed. It's an instance of the Job class.

Basic PHP functions can be used. For MyQ specific classes and functions, see Job Scripting Reference.

To set up processing via the PHP script, go to the properties panel of the queue where you want to use it, open the **Job processing** tab, and go to the **Scripting** (PHP) section. Under **Actions after processing**, enter the script in the box.

🚡 Quei	ıeX				×
General	Job receiving	MyQ Desktop Client	Job processing	Printers	Rights
<ul><li>Wate</li><li>Custo</li></ul>					
▼ Script	ting (PHP)				
	is used, it is recom fter processing:	mended to enable the Job	parser on the Settin	gs > Jobs pa	ge
<pre>if (\$this-&gt;colorCount&gt;20) {\$this-&gt;moveToQueue("ForceMonochrome");} if (\$this-&gt;pageCount&gt;500) {\$this-&gt;delete();} if (\$this-&gt;paper===6) {\$this-&gt;moveToQueue("LargePaperFormat");}</pre>					
► Custo	m data processi	ing			
		✓ Save	Cancel		

#### PHP scripts actions examples

In this section you can find examples covering a variety of job management options. These examples should give you an idea about how to use the PHP scripting in MyQ. You can also substitute the properties and methods in the examples to use them as building blocks of more complex scripts.

## Actions based on the number of pages

Move jobs with a higher number of color pages to a monochrome queue.

```
if ($this->colorCount>20) {
   $this->moveToQueue("ForceMonochrome");
}
```

Delete jobs with a large number of pages.

```
if ($this->pageCount>500) {
   $this->delete();
  }
```

## Actions based on the size of the job

Move large jobs to a dedicated queue.

```
if ($this->dataSize>1000000) {
    $this->moveToQueue("LargeJobs");
}
```

Delete oversized jobs.

```
if ($this->dataSize>5000000) {
    $this->delete();
    }
```

#### Actions based on paper format

Move jobs with the A3 paper format to a dedicated queue.

```
if ($this->paper===6) {
    $this->moveToQueue("LargePaperFormat");
  }
```

#### Actions based on the job owner

Move jobs of a certain owner to a dedicated queue.

```
if ($this->owner->name==="eliot.kate") {
    $this->moveToQueue("EliotKate");
}
```

Change the owner of the job.

```
if ($this->owner->name==="eliot.kate") {
    $this->owner=MyQ()->getUserByUserName("simon.kate");
}
```

## Actions based on the duplex property

Move duplex jobs to a duplex queue.

```
if ($this->duplex) {
   $this->moveToQueue("Duplex");
}
```

Move simplex jobs to a simplex queue.

```
if ($this->duplex===false) {
    $this->moveToQueue("Simplex");
}
```

## Actions based on the color property

Move color jobs to a color queue.

```
if ($this->color) {
   $this->moveToQueue("Color");
}
```

Actions based on the job name or the source application Move jobs printed in MS Word to a dedicated queue.

```
if (strpos($this->name,"Microsoft Word")!==false) {
   $this->moveToQueue("MSWord");
  }
```

Delete jobs sent from Facebook.

```
if (strpos($this->name,'Facebook')!==false) {
    $this->delete();
    }
```

### Actions based on the rights to a queue

Move jobs of users who are not allowed to print to one queue to a different queue

```
if ($this->owner->canPrintToQueue(Color)===false) {
```

```
$this->moveToQueue(Monochrome);
}
```

#### Actions based on group membership

Move jobs sent by members of a group to a dedicated queue

```
if ($this->owner->hasGroup(Clerks)) {
   $this->moveToQueue(Clerks);
}
```

#### Actions based on the PDL of the job

Move all jobs sent in a certain PDL to a dedicated queue

```
if ($this->lang===0) {
    $this->moveToQueue(UnknownPDL);
}
```

#### **Sending custom log messages to MyQ** Send a log info message to MyQ Log

```
MyQ()->logInfo("This message appears in the MyQ log.");
```

## **Complex actions**

If the number of pages multiplied by the number of copies exceeds a certain number, delete the job and inform the user

```
// get the number of pages and the number of copies
$pages_number = $this->pageCount; $copies_number = $this->copies;
// if total (pagescopies) exceeds 500, delete the job and notify its owner
if ( $pages_number $copies_number>500) {
    $this->delete(); $this->owner->sendNotification("error","Job refused",
    "Cannot
    print jobs exceeding 500 pages.");
}
```

Move the job to a queue, if allowed

```
if ($this->color) {
    if ($this->owner->canPrintToQueue("JPS2")) {
        $this->moveToQueue("JPS2");
    }
}
```

```
} else {
    $this->owner->sendEmail("Job error", "Color printing denied");
    $this->delete();
}
```

Move the job to the first available personal queue

```
// get all user's queues sorted by priority
$personalQueues = $this->owner->personalQueues;
// loop them
foreach ($personalQueues as $q) {
    // skip queue if no printer is available
    if ($q->isAnyPrinterAvailable() === false) {
        continue;
    }
    // queue printer is available, move job to queue
    $this->moveToQueue($q->name);
    // job is moved, stop the loop
    break;
}
```

## **User Interaction Scripting**

A User Interaction Script allows to program an interaction with the job owner and modify the job based on the user's response. Specifically, it allows to display a series of UI dialogs with questions and action buttons (*YES/NO, PRINT/NO, YES/NO/CANCEL*). Depending on the user selection, further dialogs can be displayed and actions can be taken. Finally when the last dialog is processed, the script is finished and the job is set as ready and can be released.

If a User Interaction Script is present, it must be first successfully executed before the job can be released. The job is forced in the pause state until then.

Basic PHP functions can be used, and almost all of those described in Job Scripting Reference. The only two methods not supported by the feature are \$this->job->setPrinted() and \$this->job->pause(). Apart from the common classes, methods, and properties, you can use several additional functions to communicate with the MyQ Desktop Client application.

#### How to write a User Interaction Script

On the MyQ Desktop Client tab of a queue, in the **User Interaction** section, add the script in the field, and click **Save**.

First, you need to define the main(). function. This function decides if the dialog box should be opened (under which conditions) and which dialog box should be shown.

Then you can define on-click functions with reactions to the selected option: onYes(), onNo(), onPrint(), onCancel().

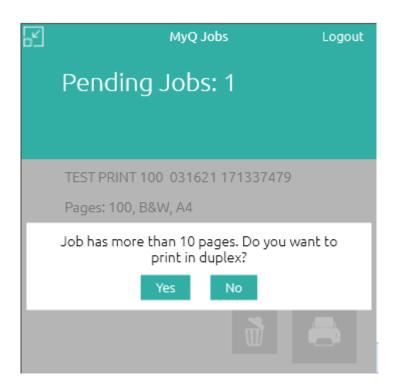
Public properties are kept between calls. In fact, they are sent to the client and back.

### Script Structure

See the following script:

```
public $hasMoreThan10pages;
// script entry point
function main() {
   /** Job object */
    $job = $this->job;
    $this->hasMoreThan10pages = $job->pageCount > 10;
    // Show dialog if the job has more than 10 pages
    if ($this->hasMoreThan10pages === true) {
        $this->dialogYesNo("Job has more than 10 pages. Do you want to
print in duplex?");
    }
}
// If yes clicked
function onYes() {
    // $this->hasMoreThan10pages is available also here
    $this->job->duplex = 'longEdge';
}
// If no clicked
function onNo() {
    // nothing. Job will be released.
}
```

Using the above script, this dialog is displayed in MDC:



If you are familiar with the PHP language, the script is actually a body of the class UserScript {...} statement.

You can define properties like \$hasMoreThan10pages. Properties are persistent
among multiple script invocations for the same job. Use them to store a state
between multiple dialogs.

There is the main function. It's called once when the script starts. Use it to display the first dialog.

Then there are the onXXX functions. They are the action handler called when an XXX button is pressed. For example, the Yes button is handled via the onYes function.

If you display no dialog, the script is finished.

#### **API Reference**

See Job Scripting Reference on how to modify the job and also for many other operations you can perform.

The User interaction script runs in the context of the User class. The sent job can be accessed as \$this->job.

Objects from all classes, except for the Session class, can be accessed via the job object, for example the owner \$this->job->owner. Objects from the Session class can be accessed via the MyQ() global feature; for example: MyQ()->logInfo("This message appears in the MyQ log.");.

## UserScript Class

User Interaction Script is the body of the UserScript class as described above. MyQ also provides several built-in methods of the User class in addition to your own methods.

**Dialog Creation Methods** 

Function	Description
void <b>dialogYesNo</b> (string \$text)	Creates a dialog with the <pre>\$text</pre> as the <pre>content and Yes, No buttons.</pre>
void <b>dialogPrintNo</b> (string \$text)	Creates a dialog with the <pre>\$text</pre> as the <pre>content and Print, No buttons.</pre>
void <b>dialogYesNoCancel</b> (string \$text)	Creates a dialog with the <pre>\$text</pre> as the <pre>content and Yes, No, and Cancel buttons.</pre>
void <b>dialog</b> (string \$text, Field[] \$fields)	Creates a dialog with the <i>stext</i> as the content and an array of custom fields. A field can be a button or any other field type, like a list, for example. Buttons are always displayed below other fields.
FieldButton <b>button</b> (string \$title, string \$id)	Creates a custom button which can be used in the dialog() function. \$title is a text displayed on the button. The button \$id is used when executing the button handler. MyQ searches for an onXXX handler where XXX is the \$id.
FieldList <b>singleSelectList</b> (string \$name, array \$items)	Creates a list of options from which the user can choose only one (radio group). It can be used in the dialog() function. The \$items is an associative array where the key is an item's reference and the value is an item's display name visible in the UI.

Function	Description
FieldMultiSelectList <b>multiSelectList</b> (string \$name, array \$items)	Creates a list of options from which the user can choose multiple ones (check boxes). It can be used in the dialog() function. The \$items is an associative array where the key is an item's reference and the value is an item's display name visible in the UI.

## onCancel Method

onCancel handles the Cancel button and is provided by default. It calls terminate(). You can provide your own implementation to change the behavior.

Other Methods

Function	Description				
void <b>terminate(</b> )	Terminates the script processing. The script has not been executed successfully and the job stays in the pause state. The user must execute the script again.				
mixed <b>getField</b> (string \$name)	Gets the value of the field with the <pre>\$name</pre> after the user has interacted with the dialog. The field must have been created by the methods <pre>singleSelectList</pre> (the result is a scalar value) or <pre>multiSelectList</pre> (the result is an array of values, which can be an empty array).				

User interaction script examples

```
Print a color job in B&W
```

```
// script entry point
function main(){
// If the job is color, show a Yes/No dialog to ask if they want to
print the job in B&W.
if ($this->job->color){
 $this->dialogYesNo("Jobs sent to this queue are printed in B&W,
 do you still want to send the job here?"); }
}
// If Yes clicked, the user is informed that the job was sent to the B&W
queue via a MDC
notification.
function onYes(){
$this->job->owner->sendNotification("info","Job successfully sent","You
r job was sent
to the B&W queue.");
}
// If No clicked, the job is deleted and the user is informed about it
via a MDC
notification.
function onNo(){
$this->job->delete(); $this->job->owner->sendNotification("info","Job
deleted","Your
job was deleted.");
}
```

#### Move job to a personal queue

```
// script entry point
function main() {
    /** Job object */
    $job = $this->job;
    // Get the personal queues and create a list
    $queues = $job->owner->getPersonalQueues();
    $queueList = [];
    foreach ($queues as $queue) {
        $queueList[$queue->name] = $queue->name;
    }
    $list = $this->singleSelectList('Personal queues', $queueList);
    $this->dialog('Select a queue', [
        $list,
        $this->buttonPrint(),
        $this->buttonCancel()
    ]);
}
// If print clicked
function onPrint($inputs) {
    $queue = $this->getField('Personal queues');
    $this->job->moveToQueue($queue);
}
// If cancel clicked
function onCancel() {
    // nothing. Job will be released.
}
```

## **Job Scripting Reference**

This is a reference of classes and functions you can use in Job Processor Scripting and User Interaction Scripting.

There are five classes that can be used within the scripts: Job, User, Queue, Session, and QuotaInfo. The object of the **Job** class represents the job sent to MyQ, the object of the **User** class represents the job's owner, and the object of the **QuotaInfo** class represents quotas of the job's owner. The **Queue** class can be used to move the job to one of the personal queues of the job's owner and methods of the **Session** class may be used for additional specific tasks, such as sending a log message to MyQ.

### Job class

The **Job** class has the following methods and properties:

#### Methods

- this **pause**() Pause the job.
- this **copyToQueue**(string \$queueName) Copy the job to queue \$queueName . The new job is processed normally according to the rules in the target queue.
- this **moveToQueue**(string \$queueName) Move the job to queue \$queueName . The new job is processed normally according to the rules in the target queue.
- this **setReleased**() Set the job as released (printed) without actually releasing it. (setPrinted is still supported for BC).
- this **delete**() Delete the job.

### Properties

Job Properties show how the job looks after applying user/quota policies. This is how the job will be released. The null value means that the job parser was not able to get the property from the job file.

By setting a property, you can modify how the job will be released. This overrides any user/quota policy. If you set a property to null, the job will be released as originally received.

Setting monoCount, colorCount or paper doesn't actually modify the job. The new values are used only for credit/quota calculations.

Name	Туре	Writabl e	Description
name	string	yes	Name of the job
dataSize	int	yes	Data size of the job in bytes
queue	Queue	-	Job's queue
monoCou nt	int	yes	Count of the monochrome pages of the job
colorCou nt	int	yes	Count of the color pages of the job
pageCou nt	int	-	Total sum of the pages of the job

Name	Туре	Writabl e	Description
рарег	string	yes	Format of the paper with the following strings as its values: 'a4' 'a3' 'other' 'a5' 'b4' 'b5' 'folio' 'ledger' 'legal' 'letter' 'statement' This variable is employed by the 'set' method in MyQ. Use it in commands of the PHP script.
duplex	Boolean	yes	Job is in duplex. Possible values: 'simplex' 'longEdge' 'shortEdge' Note: Changing this property only updates the metadata of the job. The job is not converted to simplex/duplex.
color	Boolean	-	Job is in color. Note: Changing this property only updates the metadata of the job. The job is not converted to B&W/color.
owner	User[]	yes	Owner of the job Note: The user policies are not updated; Projects are not updated.
copies	int	yes	Number of copies of the job Note: Changing this property only updates the metadata of the job. The number of copies to be released is not changed.
tonerSavi ng	Boolean	yes	Toner Saving mode enabled

Name	Туре	Writabl e	Description
filename	string	yes	A path including the filename of the job. The path is relative to the job folder. Note: The path must exist, otherwise the job is not parsed and is declared as "deleted".
lang	int	-	The PDL of the job with the following integers as its values: UNKNOWN = 0, PDL_PCL = 1, PDL_PS = 2, PDL_ESCP = 3, PDL_ESCP = 3, PDL_PRESCRIBE = 4, PDL_PCLXL = 5, PDL_PDF = 6, PDL_JPEG = 7

### User class

The **User** class has the following methods and properties:

#### Methods

- this **sendEmail**(*string* \$*subject*, *string* \$*body*) Send an email to the user.
- bool canPrintToQueue(string \$queueName) The user has the rights to send jobs to the queue.
- bool **hasGroup**(*string* \$*name*) The user is a member of the group.
- this sendNotification(string \$type, string \$title, string \$body) Send a notification to the user via MyQ Desktop Client:
  - type: info, warning, error
  - title: notification title
  - body: notification text (plain text format)
- Quotalnfo getQuotalnfo() Get information about user's quotas.

## Properties

Name	Туре	Writabl e	Description
name	string	-	Login name of the user
email	string	-	Email of the user
fullname	string	-	Name and surname of the user

Name	Туре	Writabl e	Description
delegates	User[]	-	Array of the user's delegates
notes	string	-	Notes
personalQueues	Queue[]	-	Array of personal queues ordered by priority

#### Queue class

The **Queue** class has the following methods and properties:

#### Methods

• **bool isAnyPrinterAvailable()** - There is at least one printing device available to the queue.

#### Properties

Name	Туре	Writable	Description
name	string	-	Name of the queue

#### **Session class**

The session object is accessible via the MyQ() global function. The **Session** class has the following methods:

#### Methods

- User **getUserByUserName**(*string \$userName*) Find a MyQ user by their user name. If no user is found, null is returned.
- this logError(string \$message) Create an error message in the MyQ log.
- this **logWarning**(*string* \$*message*) Create a warning message in the MyQ log.
- this **logInfo**(*string \$message*) Create an info message in the MyQ log.
- this **logNotice**(*string \$message*) Create a notice message in the MyQ log.
- this **logDebug**(*string* \$*message*) Create a debug message in the MyQ log.
- string **getJobsPath()** Get the path to the folder on the MyQ server where the print job is stored. Ends with a backslash.

## QuotaInfo class

The **QuotaInfo** class contains information about the user's current state of quotas. It has the following methods:

• bool canColor() - Check if the user can print or copy in color.

- bool **canPrint()** Check if the user can print.
- bool **canCopy**() Check if the user can copy.
- bool canScan() Check if the user can scan.

# 11 Printing to MyQ

This topic discusses the settings that need to be done outside of MyQ to enable MyQ essential functions, such as monitoring jobs and detecting users.

Microsoft Windows and MacOS settings are described below. Although the procedure of installing and setting the print drivers is different on other operating systems, the principle remains the same. You need to add a printer or print port, set the MyQ server's IP address or hostname, and set the name of the queue where jobs are sent via this port.

## 11.1 Windows settings

- 1. In **Windows**, under **Devices and Printers**, select any printer, and then click **Print server properties**. The Print server properties dialog box appears.
- 2. In the dialog box, open the **Ports** tab, and then click **Add Port**. The Printer Ports dialog box appears.

🖶 Print Server Properties						
Forms Ports	Drivers Security	Advanced				
V	VIN-GOMOSMT0AC	09				
Ports on this	server					
Port	Description	Printer	^			
LPT1:	Printer Port					
LPT2:	Printer Port					
LPT3:	Printer Port		_			
COM3:	Serial Port		≡			
COM4:	Serial Port					
COM1:	Serial Port					
COM2:	Serial Port					
FILE:	Print to File		~			
Add	Port	Delete Port Configure Port	t			
		OK Cancel	Apply			

3. On the Printer Ports dialog box, select **Standard TCP/IP Port**.

	Printer Ports	x
Available port types:		
Local Port Standard TCP/IP Port		
New Port Type	New Port Cancel	

- 4. Click **New Port**. The Add Standard TCP/IP Printer Port Wizard dialog box opens.
- 5. Click Next.
- 6. Enter the IP address or the hostname of the MyQ server.
- 7. Optionally change the **Port Name**.
- 8. Click **Next**. You are asked to provide additional port information.

Add Standard TCP/IP Printer Port Wizard

Add port For which device do you want to ad		
Enter the Printer Name or IP ad	dress, and a port name for the desired device.	
Printer Name or IP Address:	10.1.3.244	]
Printer Name of IP Address:	10,1.5,244	
Port Name:	MyQ Print	
	L	1
	< Back Next >	Cancel

- 9. Under **Device Type**, select **Custom**.
- 10. Click **Settings**. The Configure Standard TCP/IP Port Monitor dialog box appears.
- 11. In the dialog box, under **Protocol**, select the **LPR** option. Under LPR settings, enter the name of the MyQ queue where you want to print to. Select the **LPR Byte Counting Enabled** option. Click **OK** after the settings are changed.

Configure Standard TCP/IP Po	ort Monitor			>	< / <	MyQ -	Queues		×
Port Settings					←	$\rightarrow$ C	; ① [	(i)	
Port Name:	٩	/lyQ Print			m	Ι <b>Υ</b> Ο	<b>•</b>	🖷 Queu	es ×
Printer Name or IP Address	: 1	0.1.3.244			<b>+</b> N	lew Que	ue 🐬	Actions 🔻	💼 Tools
Protocol			● LPR		Statu	S	Name		
Raw Settings Port Number:	9100				Read	·	E-mail_ Job roa		
LPR Settings Queue Name:	QueueX				Read		Queue)		
LPR Byte Counting En	abled								
SNMP Status Enabled									
Community Name:	public								
SNMP Device Index:	1								
			or	Cancel					

- 12. Back on the Add Standard TCP/IP Printer Port Wizard dialog box, click **Next**. You are informed about the characteristics of the new port.
- 13. Click **Finish**. The new port is added to the list of ports in the **Ports** section of the Print server properties dialog box.

🖶 Prin	Print Server Properties								×
Forms	Ports	Drivers	Security	Advanced					
	NB227								
Ports	on this :	server	Descr	iption		Printer		^	
Test Standard TCP/IP Port						Test Print			

# 11.2 MacOS settings

- Go to Apple menu > System Preferences, and then click Printers & Scanners.
- Click the plus button (+) to add a new printer.

••• < >	Printers & Scanners	Q Sear	ch
+ -		No printers are available. < Add (+) to set up a printer.	
	Default printer:	Last Printer Used	$\bigcirc$
	Default paper size:	A4	?

In the Protocol field, select Line Printer Daemon - LPD from the list.
 Add Printer

		ē		Ē	®@	
Address	AirPrint					
	Internet	Printing	Protocol	- IPP		
Protocol	✓ Line Prir	nter Daer	non - LPD	2		
Queue	HP Jetd	irect - So	ocket			
	Leave blank	tor detau	lt queue.			
	Leave blank	tor defau	it queue.			
Name:	Leave blank	tor detau	it queue.			
Name:	Leave Diank	tor defau	it queue.			
		tor defau	it queue.			0
Name: Location:		tor defau	it queue.			0

In the Address field, add the IP address or host name of the localhost. In the Queue field, add a queue name according to the MyQ server setting. Add a Name, and a Location for your printer. In the Use field, select a printer driver from the list. Click Add to setup the printer.

	Add Printer
	ē 🌐 👘 👳
Address:	10.14.5.150
	Valid and complete host name or address.
Protocol:	Line Printer Daemon - LPD
Queue:	
	Leave blank for default queue.
	10.14.5.150
Name:	10.14.0.100
Name: Location:	
	Generic PCL Printer
Location:	

• Once the printer is set up, it appears on the Printers & Scanners list.

Printers 10.14.5.150 10.14.5.150 Open Print Queue Options & Supplies Location:	Q Search
Kind: Generic PCL Laser Printer Status: Idle	×
	Sharing Preferences

# 12 Methods of Printing

This topic presents several options of printing with the MyQ system.

- Direct printing
- Pull Print printing
- Delegated printing
- Printing from email and from the MyQ Web User Interface
- Printing via the MyQ mobile printing application
- Google Cloud Print to MyQ
- AirPrint and Mopria Print Service
- Microsoft Universal Print
- Client Spooling
- Fallback Printing

There are other printing options, related to advanced features of MyQ, such as running MyQ on multiple servers, or to a variety of embedded terminals that can be purchased together with the MyQ system. Information about these options are provided in the respective guides describing these features and in the MyQ embedded terminal manuals.

## 12.1 Direct printing

With the direct printing method, users can send their print jobs to be immediately printed on a particular printing device via a dedicated queue. The queue is created especially for this device and cannot have any other devices attached to it. As soon as MyQ receives the job, it sends it to the printing device to be printed.

From the user's point of view, it works in the same way as the common method of print where the job is sent directly to a selected printing device. The main difference is that MyQ collects the job data to be used for reports and accounting.

For information on how to create a direct print queue, see Queues.

Users that send their jobs using this method do not need to be identified on the printing device and therefore no terminal is needed there.

## 12.2 Pull Print printing

Whereas the direct printing method is intended to be direct and quick, the pull print method is used for the opposite reasons. With this method, users can send a print job to be held on the MyQ server for as long as they need and select from a number of printing devices where it can be printed.

To print the job, the user just needs to authenticate themselves on the printing device terminal. After the authentication, the job is either immediately printed or displayed on the terminal touch panel, where it can be managed by the user. Depending on the type and settings of the terminal, users might have either one, or both of these options.

For information on how to create a pull print queue, see Queues.

To use this method, an embedded terminal or a hardware terminal is required.

For more information on embedded terminals, see:

- MyQ Canon Embedded
- MyQ Epson Embedded
- MyQ HP Embedded
- MyQ Kyocera Embedded
- MyQ Lexmark Embedded
- MyQ Ricoh SmartSDK Embedded
- MyQ Sharp Embedded
- MyQ Toshiba Embedded
- MyQ Xerox Embedded

## 12.3 Delegated printing

The delegated printing feature is an extension of the pull print printing method that allows users to share their print jobs with a specified group of other users. These users can release the jobs on an embedded terminal in the same way they would release their own jobs.

The users that are allowed to print jobs of a certain user (or a certain group of users) are called their delegates. The delegates can be designated by the users themselves or by the MyQ administrator. When a user sends a job to MyQ, they can decide to share it with their delegates. Jobs that are to be shared have to be sent via the **Delegated printing** type queue.

Two settings are necessary to enable this feature: the delegates have to be defined and a **Delegated printing** queue has to be created and be accessible to the user or group.

For information on how to define the delegates, see Selecting user delegates.

For information on how to create and set the **Delegated printing** queue, see Queues.

## 12.4 Printing from email and from the MyQ Web UI

MyQ enables users to print documents from the MyQ web user interface or by sending an email to a special email address. It supports printing the following source formats:

- pdf/a
- jpeg, bmp, tif, png
- txt (UTF8)
- MS Office and LibreOffice documents: doc, docx, xls, xlsx, ppt, pptx, odt, ods and odp. (You have to have the corresponding suite installed on the server.)
- email body in plain text and HTML

The minimal required version of MS Office is MS Office 2013 64bit with the latest service pack (MS Excel files using MS Office 2013 are not supported). This means that MS Office 2013, 2016, 2019 and O365 64bit are supported.

The minimal required version of LibreOffice is LibreOffice 6 64bit.

If only one of the tools (MS Office or LibreOffice) is installed, it is used for all formats. If both tools are installed, MS Office formats are used by MS Office and LibreOffice formats by LibreOffice (recommended solution).

After the MS Office/LibreOffice installation, MyQ services need to be restarted in order to start recognizing these formats.

All print jobs sent from email are automatically assigned to the **Email** queue and can be printed only on printing devices assigned to this queue.

All print jobs sent from the web user interface are automatically assigned to the **Web** queue and can be printed only on printing devices assigned to this queue.

## 12.4.1 Printing from the web UI setup

To enable and setup the print:

On the Jobs settings tab, under Jobs via Web, set the following parameters:

- 1. Enable the Jobs via Web option.
- 2. Select the users that are allowed to use this feature.

Once the **Jobs via Web** option is enabled, all users with rights to the **Web** queue have the **Print File** button displayed on their web user interface account. They can click this button and insert print jobs directly to MyQ. The job size limit is *120MB* by default and it's based on the **Maximum upload file size** setting (available in **MyQ**, **Settings, Jobs**, in the **Jobs via Web** section).

## 12.4.2 Printing from email setup

Once the **Jobs via Email** option is enabled, the users can print a document by attaching it to an email and sending it to a special email account dedicated to print. Jobs send via email are limited to *500MB* per email message, all attachments included.

▼ Jobs via Email	
Enabled:	
Allowed users: *	ମ୍ପ All users  ▼
	Manage queue for these jobs
Always generate a new PIN after a job is received:	
Print email body:	
Default print options:	B&W Toner saving Duplex You can override the defaults by using keywords in the email subject
Method:	MyQ SMTP Server
	O POP3
	○ IMAP

If you select the **Always generate a new PIN after a job is received** option, a new PIN is generated every time a user sends an email with a print job. If the user already has a PIN, it is replaced by the new one. If you select this option, make sure that you

select the **Send new PIN via email** option on the **Users** settings menu, under PIN. Otherwise users do not receive the new PIN and cannot access their MyQ accounts.

You can enable users to **Print email body** and restrict the print to *B&W*, *Toner saving* and/or *Duplex* mode by selecting one or more **Default print options**.

In addition, users can change their print job parameters by adding keywords to the email subject. These changes have priority over the **Default print options** selected in MyQ. Users can choose from the following keywords: **#color** (color print), **#mono** (monochrome print), **#duplex** (print on both sides of a paper), **#simplex** (print on one side of a paper), **#ecoon** (toner saving print mode on), **#ecooff** (toner saving print mode off). They can be used as any part of the subject and do not have to be separated. For example, an email with the *MyPrintJob #mono#duplex* subject will force the job to be printed in monochrome and duplex.

There are two ways of receiving the print jobs sent via emails: you can either use MyQ as an SMTP server and forward all emails with the print jobs there, or you can use MyQ as an email client that fetches all emails from a specific email account on your server via POP3 or IMAP protocol.

## Forwarding emails to the MyQ SMTP server

With this option, MyQ listens on the MyQ SMTP server port set on the **Network** settings tab and receives any email starting with print as the email with the print job. If you select this option, you need to take the following steps:

- 1. On your company mail server, create an email account for receiving print jobs.
- 2. Redirect the sent emails from this address to *print@[IP/hostname]*, where IP/ hostname is either the IP address of MyQ server, or its hostname. Any email received on this address will be processed as a print job and its owner will be identified by their email address.

## Receiving print jobs via POP3 or IMAP

On your company mail server, create an email account for receiving print jobs.

On the **Jobs** settings tab of the MyQ Web Interface, under **Jobs via Email**:

Under **Method**, select the protocol that you want to use.

Select a type from Classic POP3/IMAP Server, Microsoft Exchange Online or Gmail.

For Classic POP3/IMAP Server.

- Ensure that the protocol port is correctly set in the **Port** text box.
- If you want to secure the communication between MyQ and the mail server, select one of the security options (*SSL*, *STARTTLS*).
- Enter the IP address or the hostname of the mail server in the **Server** text box.
- Enter the address of the email account that will receive the print jobs in the **User** text box.
- Enter the password of the email account in the **Password** text box.
- By changing the value of the **Polling interval** setting, you can change the interval after which MyQ fetches new emails from the mail server.

✓ Jobs via Email	
Enabled:	
Allowed users: *	🗚 All users 🗸 🗸
	Manage queue for these jobs
Always generate a new PIN after a job is received:	
Print email body:	
Default print options:	B&W Toner saving Duplex You can override the defaults by using keywords in the email subject
Method:	<ul> <li>MyQ SMTP Server</li> <li>POP3</li> <li>IMAP</li> <li>Enter an email box for receiving jobs. The box will be emptied automatically.</li> </ul>
Type	O Classic POP3 / IMAP Server     Microsoft Exchange Online     Gmail
Security: *	SSL ~
Server: *	10.1.3.162
Port: *	110
User	print@domain.com
Password	
Polling interval: *	30 seconds Test

• By clicking **Test**, you can test the connection to the mail server, and then click **Save** to save your changes.

#### For Microsoft Exchange Online:

- If you have already set up a Microsoft Exchange Online server in the External Systems settings, that server is selected in the Server field. If not, you can click on the Server field and then click Add to add your Microsoft Exchange Online server. In the pop-up, add a Title for your server, the Client ID and the Tenant ID, and click OK. For more information, check Microsoft Exchange Online Setup.
- Set the **Port** setting to the correct value that the email server listens to. You can find the default Microsoft settings here https://support.microsoft.com/en-us/office/pop-imap-and-smtp-settings-8361e398-8af4-4e97-b147-6c6c4ac95353.
- Choose between the SSL and STARTTLS Security options.
- Enter the address of the email account that will receive the print jobs in the **User** text box.
- By changing the value of the **Polling interval** setting, you can change the interval after which MyQ fetches new emails from the mail server.

• Click **Test** to test the connection to the mail server, and then click **Save** to save your changes.

<ul> <li>Jobs via Email</li> </ul>	
Enabled:	
Allowed users: *	😤 All users 🗸
	Manage queue for these jobs
Always generate a new PIN after a job is received:	
Print email body:	
Default print options:	B&W Toner saving Duplex
	You can override the defaults by using keywords in the email subject
Method:	
	POP3     IMAP
	Enter an email box for receiving jobs. The box will be emptied automatically.
Туре	Classic POP3 / IMAP Server     Microsoft Exchange Online
	Gmail
Security: *	SSL V
Server: *	MS Exchange Online
Port: *	995
User	: print@domain.com
Polling interval: *	30 seconds
	Test

#### For Gmail:

- If you have already set up a Gmail with OAuth2 server in the External Systems settings, that server is selected in the Server field. If not, you can click on the Server field and then click Add to add your Gmail server. In the pop-up, add a Title for your server, the Client ID and the Security key, and click OK. For more information, check Gmail with OAuth2 setup.
- Set the **Port** setting to the correct value that the email server listens to.
- Choose between the SSL and STARTTLS **Security** options.
- Enter the address of the email account that will receive the print jobs in the **User** text box.
- By changing the value of the **Polling interval** setting, you can change the interval after which MyQ fetches new emails from the mail server.
- Click **Test** to test the connection to the mail server, and then click **Save** to save your changes.

∨ Jobs via Email	
Enabled:	
Allowed users: *	R All users
	Manage queue for these jobs
Always generate a new PIN after a job is received:	
Print email body:	
Default print options:	B&W Toner saving Duplex You can override the defaults by using keywords in the email subject
Method:	<ul> <li>MyQ SMTP Server</li> <li>POP3</li> <li>IMAP</li> <li>Enter an email box for receiving jobs. The box will be emptied automatically.</li> </ul>
Туре	
	Microsoft Exchange Online     Gmail
Security:	
Server:	Gmail Test 🗸
Port:	* 995
User	: print@domain.com
Polling interval: *	30 seconds Test

### 12.4.3 Processing documents in Office formats

On the **Jobs** settings tab, under **Office file formats**, select a method of processing the Office format files. You can select from:

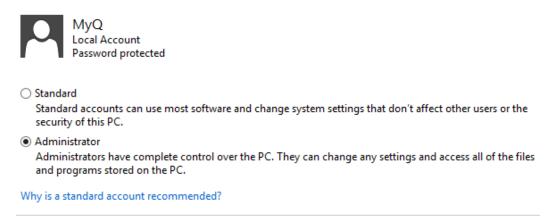
- **Convert to PDF** MyQ opens the document in the Office application, converts the job to PDF and sends it directly to the printing device. The printing device has to support direct print of the PDF format. The corresponding office package (in 64bit) has to be installed on the MyQ account. For processing documents in MS Office formats, it is recommended to run MyQ service under a new local admin account rather than the default Local System account.
- Via a Windows printer MyQ opens the document in the MS Office application and prints it using a selected windows printer (print driver). To select the printer, choose the printer that you want to use on the setting drop-down. You also have to change the printer security settings to allow MyQ to print from that print driver. In Windows, under Devices and Printers, right-click the printer. In the printer's properties, open the Security tab and allow print and managing printers to the account that the MyQ services are running under.

After the MS Office/LibreOffice installation, MyQ services must be restarted for the system to start recognizing these formats.

#### Creating a new local admin account

1. Create a new local admin account with full administration rights (details can be found here).

Choose a new account type for MyQ



Change Account Type

Cancel

- 2. Log on to the newly created account.
- 3. Install the corresponding Office package on the MyQ server.
- 4. Run all the applications that will be used for the conversion (*Word, Excel, PowerPoint, LibreOffice, etc.*) and close all welcome screens and dialog boxes that might appear on the application startup.
- 5. Open the MyQ Easy Config application and go to the **Settings** tab. Under **Windows Services Account**, select **Custom account**. Then, either browse for the user, or enter the user's credentials and click **Save**. MyQ services are then automatically restarted.

		MyQ Print Server Easy Config	- □ ×
- 	Home	Settings	myq
٢	Services	✓ Windows Services Account	LocalSystem
≍	Settings	Log on services as:	
	Database	○ Local System account	=
Э	Log	Custom account     Account:	
?	About	Browse The account must have the "Log on as a service" user right.	
A	English •	Password:	
foc	cus on what	Confirm password: Save	
	U DO BEST	> Database Administrator Password	~

# 12.5 Printing via the MyQ X Mobile Client app

MyQ users can use the MyQ X Mobile Client application to manage print jobs and send them to the print server directly from their mobile phones, securely release the jobs on selected printing devices, unlock printing devices via scanning a QR code, and recharge MyQ credit.

The administrator can also set the following features:

- 1. On the MyQ Web Interface, open the **Printers & Terminals** settings tab (**MyQ**, **Settings, Printers & Terminals**) and go to the **MyQ X Mobile Client** section.
- 2. If you want to enable users to use their mobile application to login to terminals by scanning a QR code, select the **Enable login by QR code on terminal login screen**. This is enabled by default.
- 3. If you want to be able to set the QR code as the default login method on embedded terminals, mark the **Set QR code as default login method** checkbox.

≡ <b>MYQ</b>	G Settings: Printers & Terminals
% Settings	🗟 Printers & Terminals
₽ Network Authentication servers ♥ SNMP	<ul> <li>Feneral</li> <li>MyQ X Mobile Client</li> </ul>
<ul> <li>SNMP</li> <li>Printers &amp; Terminals</li> <li>Configuration Profiles</li> <li>Printer Discovery</li> <li>Terminal Actions</li> <li>Events</li> <li>Event Actions</li> </ul>	Enable login by QR code on terminal login screen: Set QR code as default login method:
<ul> <li>♀ Users</li> <li>♥ Policies</li> <li>※ User Synchronization</li> </ul>	Save     Cancel Fields marked by * are mandatory.

In the **MyQ X Mobile Client** section in the **Network** settings tab, you can set the **Server** hostname or IP address and the communication port (**Secure port (SSL)**)for the MyQ mobile applications which will be used when the corresponding QR codes are generated.

<ul> <li>MyQ X Mobile Client</li> </ul>	
Server: *	s to connect to the MyQ server. The address and port can differ from the LAN because mobile devices connect via Wi-Fi.
i You can generate the <b>Printers</b> mai <b>code</b> .	e a QR code for a printing device on the list of printing devices on in tab. Right-click the printing device there, and then click <b>Print QR</b>

# 12.6 Print from Chromebooks, Chrome and other Google apps

As Google ended their support for Google Cloud Print, MyQ offers the following alternatives for secure printing or remote printing:

- IPPS via Chromebook setting up printing via IPPS enables users to print from Google Chromebooks natively.
- Printing from email/web print documents from the MyQ web user interface or by sending an email to a special email address.

# 12.7 AirPrint and Mopria Print Service

AirPrint enables users to print photos and documents from their MacBook, iMac, iPhone, iPad, or iPod touch without having to install additional software (drivers).

Mopria Print Service does the same for users with an Android smart phone or tablet. Android users must download the Mopria Print Service app from Google Play.

As an administrator, you only have to install **MyQ Mobile Print Agent 1.3+** once, to give your iPhone and/or Android users access to MyQ queues.

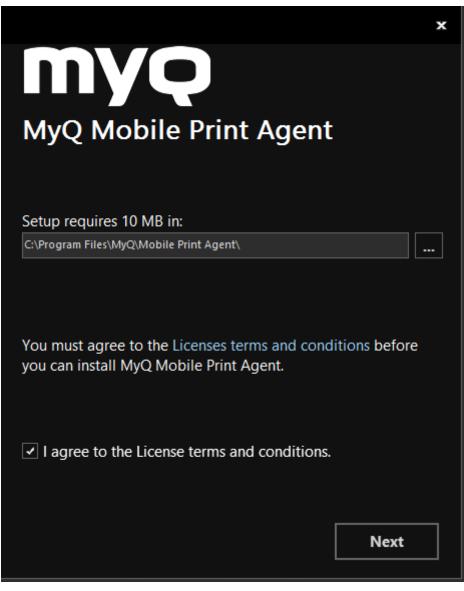
AirPrint and Mopria Print Service are working with MyQ by exposing MyQ print queues as AirPrint / Mopria Print Service printer devices. The MyQ users connect to the company's Wi-Fi network, select the queue where they want to send the print job, and authenticate themselves with their MyQ credentials. After the first authentication, the credentials are stored on the device. **Pull Print** and **Delegated printing** queues are

displayed as available printers on the users' device.

MyQ Print Server 10+ requires MyQ Mobile Print Agent 1.3+.

#### Enable AirPrint and/or Mopria Print Service

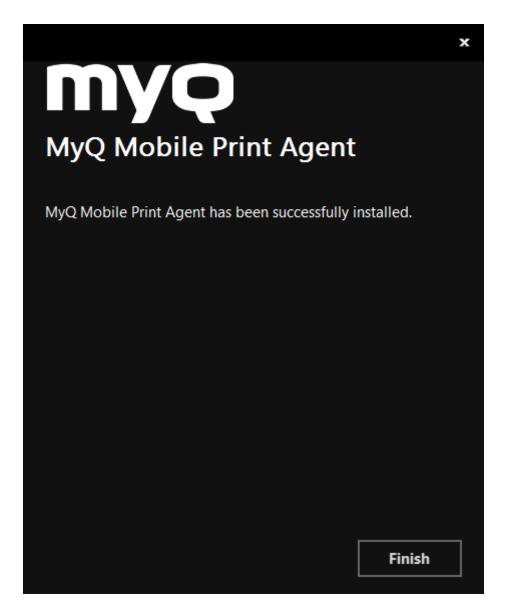
- 1. Make sure that on the MyQ Web UI, in **MyQ, Settings, Jobs**, the **Jobs via mobile print** is **Enabled** (it is enabled by default).
- 2. Download the latest MyQ Mobile Print Agent installation file from the MyQ Community portal on your server.
- 3. Run the executable file. The MyQ Mobile Print Agent installation wizard opens.



- Select the folder where you want to install MyQ Mobile Print Agent. The default path is: C:\Program Files\MyQ\Mobile Print Agent\.
- 5. After this, you need to agree to the license terms and conditions to continue with the installation, and click **Next**. The Server settings window opens.

MyQ Mobile Print Agent Server settings:	
MyQ Mobile Print Agent	
Server settings:	
Server address:	
Server port: 8090	
Refresh period (seconds): 30	
Back Install	]

- 6. Enter the settings:
  - a. Server address: the IP address of the MyQ Print Server.
  - b. **Server port**: the editable port that MyQ Mobile Print Agent will use (*8090* by default).
  - c. **Refresh period**: The time taken to refresh the connection with the MyQ Print Server, in seconds (*30* by default).
- 7. Click Install. MyQ Mobile Print Agent is installed.
- 8. Click **Finish** to exit the installation wizard.



# 12.8 Microsoft Universal Print

Microsoft Universal Print is a multi-tenant, cloud-based print service that enables cloud-only print solution for organizations.

MyQ integrates MS Universal Print and allows administrators to create virtual printers in Microsoft Azure automatically. MyQ checks periodically if there are any new jobs to be downloaded and if yes, they are downloaded to the associated user and queue, and they are handled as normal jobs in MyQ.

It is first needed to set up Universal Print in Microsoft Azure, and then configure it in MyQ.

# 12.8.1 Setting up Universal Print in Microsoft Azure

1. Log in to the Microsoft Azure portal and go to App registrations.

🔎 App Regi				×
Services S	ee all	Marketplace		
睅 App registrations			No results were found.	

- 2. Click New Registration and fill in the new app details:
  - a. **Name** The name for this application (this can be changed later). For example, *MyQ UP*.
  - b. **Supported account types** Who can use this application or access this API? Select the *Accounts in any organizational directory (Any Azure AD directory -Multitenant)* option.
  - c. **Redirect URI (optional)** The authentication response is returned to this URI after successfully authenticating the user. Select the *Public client/native (mobile&desktop)* option from the drop-down.
  - d. Click **Register**. Register an application

Supported account types				
Who can use this application or	access this API?			
Accounts in this organization	nal directory only (MyQ spol. s r.o DevTest only - Single tenant)			
Accounts in any organizational directory (Any Azure AD directory - Multitenant)				
Accounts in any organization	nal directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)			
Personal Microsoft accounts	only			
Help me choose				
Redirect URI (optional)				
We'll return the authentication re	esponse to this URI after successfully authenticating the user. Providing this now is optional and it can be uired for most authentication scenarios.			
	esponse to this URI after successfully authenticating the user. Providing this now is optional and it can be uired for most authentication scenarios.			
We'll return the authentication re changed later, but a value is req	uired for most authentication scenarios.			
We'll return the authentication r changed later, but a value is req Public client/native (mobile	uired for most authentication scenarios.			
We'll return the authentication re changed later, but a value is req	uired for most authentication scenarios.			

The new app overview page opens. Copy the Application (client) ID and the Directory (tenant) ID, as they are needed for the connection to MyQ.
 MyQ UP \*

	间 Delete 🜐 Endpoints			
Overview	ĵ Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer), →			
4 Quickstart	↑ Essentials			
🚀 Integration assistant   Preview	Display name : MyQ UP	Supported account types	: Multiple organizations	
Manage	Application (client) ID :	Redirect URIs	: 0 web, 0 spa, 1 public client	
🚍 Branding	Directory (tenant) ID :	Application ID URI	: Add an Application ID URI	
Authentication	Object ID : d0d98be7-b33a-48fa-b2eb-24ee009292db	Managed application in I	: MyQ UP	

 On the left-hand menu, click Manifest and modify the \*\*requiredResourcesAccess, replyUrlsWithType, allowPublicClient sections, according to the following:

```
"allowPublicClient": true,
"replyUrlsWithType": [
    {
        "url": "https://login.live.com/oauth20_desktop.srf",
        "type": "InstalledClient"
    }
],
"requiredResourceAccess": [
    {
        "resourceAppId": "00000003-0000-0000-c000-00000000000",
        "resourceAccess": [
            {
                "id": "93dae4bd-43a1-4a23-9a1a-92957e1d9121",
                "type": "Scope"
            },
            {
                "id": "06ceea37-85e2-40d7-bec3-91337a46038f",
                "type": "Scope"
            },
            {
                "id": "7427e0e9-2fba-42fe-b0c0-848c9e6a8182",
                "type": "Scope"
            }
        ]
    },
    {
        "resourceAppId": "da9b70f6-5323-4ce6-ae5c-88dcc5082966",
        "resourceAccess": [
            {
                "id": "3e306194-d6c5-43ad-afbb-0e7b16a9c10b",
                "type": "Scope"
            },
            {
                "id": "1c90a3a7-465b-49c4-adcc-c8ac83d3d3f8",
                "type": "Role"
            },
            {
                "id": "2b1bdd6b-9a0f-47c6-a806-b3e20cfd07a8",
                "type": "Role"
            },
            {
                "id": "b695614a-52ec-4835-9e13-bdf5ff4c7448",
                "type": "Role"
            },
            {
                "id": "11f87dac-027f-4d76-bd29-1ea1536b93da",
                "type": "Role"
```



5. On the left-hand menu, click **API permissions** and click **Grant admin consent** for the scopes seen in the image below:

	🕐 Refresh 🛛 💙 Got feedback?				
<ul> <li>Overview</li> <li>Quickstart</li> <li>Integration assistant   Preview</li> </ul>	Configured permissions Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. Learn more about permissions and consent				
Manage	+ Add a permission 🗸 Grant adr	nin consent for	MyQ spol. s r.o DevTest		
💳 Branding	API / Permissions name	Туре	Description	Admin consent req	Status
Authentication	Microsoft Graph (3)				
📍 Certificates & secrets	offline_access	Delegated	Maintain access to data you have given it access to	-	
Token configuration	Printer.FullControl.All	Delegated	Register, read, update, and unregister printers	Yes	▲ Not granted for MyQ sp •••
<ul> <li>API permissions</li> </ul>	PrinterShare.ReadWrite.All	Delegated	Read and write printer shares	Yes	▲ Not granted for MyQ sp •••
Expose an API	V Universal Print (4)				
App roles   Preview	PrinterProperties.ReadWrite	Application	Read and write the properties and attributes of printers.	Yes	▲ Not granted for MyQ sp •••
Owners	Printers.Read	Application	Read printers.	Yes	▲ Not granted for MyQ sp •••
Roles and administrators   Preview	PrintJob.Read	Application	Read the metadata and payload of users' print jobs.	Yes	▲ Not granted for MyQ sp •••
Manifest	PrintJob.ReadWriteBasic	Application	Read and write the metadata of users' print jobs.	Yes	▲ Not granted for MyQ sp •••

2	PREVIEW		
2	Search (Ctrl+/)	~	Universal Print offers automatic document conv
Gverview			converted to the printer supported format. Lear
			Document Conversion  Enabled
Ma	nage		
8	Printers		
۵	Printer Shares		
ø	Connectors		
ŝ	Document Conversion		

\*\* The changes in the JSON settings in step 4, set the required scopes for Universal Printing and change the application to be treated as public (Needed for requesting device code).

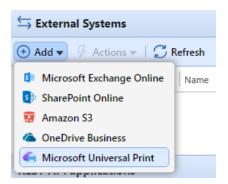
The table below shows the details of the required scopes:

Scope ID	Description
06ceea37-85e2-40d7-	Microsoft Graph: PrintShare.ReadWrite.All
bec3-91337a46038f	Read and write printer shares

Scope ID	Description
7427e0e9-2fba-42fe- b0c0-848c9e6a8182	Microsoft Graph: offline_access Allows MyQ to request the Access token via the complete MS OAuth2 flow only once, and then use Refresh token to exchange it for the Access token.
93dae4bd-43a1-4a23-9a1a-92957 e1d9121	Microsoft Graph: Printer.FullControl.All Register, read, update, and unregister printers
3e306194-d6c5-43ad- afbb-0e7b16a9c10b	UP: Printers.Create Create (Register) printers
1c90a3a7-465b-49c4-adcc- c8ac83d3d3f8	UP: PrinterProperties.ReadWrite Read and write the properties and attributes of printers.
2b1bdd6b-9a0f-47c6-a806- b3e20cfd07a8	UP: Printers.Read Read printers
b695614a-52ec-4835-9e13- bdf5ff4c7448	UP: PrintJob.Read Read the metadata and payload of users' print jobs.
11f87dac-027f-4d76- bd29-1ea1536b93da	UP: PrintJob.ReadWriteBasic Read and write the metadata of users' print jobs.

# 12.8.2 Setting up Universal Print in MyQ

- 1. Log in to the MyQ web administrator interface, and go to **MyQ**, **Settings**, **External Systems**.
- 2. In the External Systems section, click **+Add** and select *Microsoft Universal Print* from the list.



- 3. In the pop-up window, fill in the required fields:
  - a. **Title** add a name for your Microsoft Universal Print external system; for example, *MyQ UP*.
  - b. **Client ID** the **Application (client) ID** you copied during the MS Azure setup.
  - c. **Tenant ID** the **Directory (tenant) ID** you copied during the MS Azure setup.
- 4. Click **OK**.

Microsoft Universal Print			
Title: * MyQ UP			
Client ID: * Application (clien	t) ID from MS Azure		
Tenant ID: * Directory (tenant)	ID from MS Azure		
✓ ОК	Cancel		
Fields marked by * are mandatory.			

5. Copy the **Code** from the pop-up window, click on the URL, enter the code and follow any other instructions. Once done, MyQ is connected to MS Azure Universal Print. (There is a 15min timeout for confirming the code. If it is not confirmed and a user tries to create a printer in Azure via MyQ, a message appears in the *Issues* column in the Queues section, that it is needed to confirm the code. If the time for confirming the code is up, then when a user is trying to create the printer, the device code request will be generated again and there will be a message with a new user code in the *Issues* column).

j	To finish the connection of MyQ and Azure go to the following URL and paste there the code below.			
	https://microsoft.com/devicelogin Code: D <b>evice:</b>			
	✓ ок			

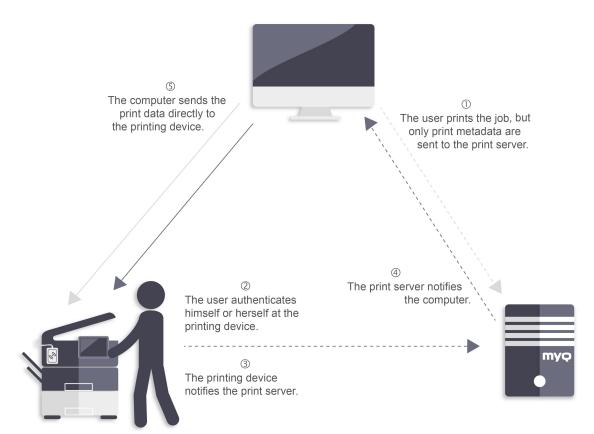
6. Go to **MyQ**, **Queues** and select the queue(s) you want to associate with Universal Print. Double-click on the queue (or right-click and edit, or select the queue, click Tools and edit) and on the queue properties, click on the **Job receiving** tab. In the **Jobs via MS Universal Print** section, set the option to **Enabled**, and click **Save**. After a few minutes, your queue will be available as a virtual printer in MS Azure Universal Print.

🚡 QueueX X
General Job receiving MyQ Desktop Client Job processing Printers Rights
Job parsing
▶ Jobs via RAW protocol
Jobs via hot folder
▼ Jobs via MS Universal Print
Only the following user detection methods can be used: Job sender. Queue will be published in Microsoft Universal Print. It can take several minutes to apply the changes.
Enabled:
Jobs via mobile devices
Save Cancel
Fields marked by * are mandatory.

# 12.9 Client Spooling

With the Client Spooling feature enabled, users' print jobs are not sent to the MyQ server, but stay stored at the users' computer. After they authenticate themselves at a printing device and select the jobs to be printed, the jobs are released from the computer directly to the device. This method dramatically decreases traffic to MyQ server and is suitable especially for small offices with limited network connection to the MyQ server.

When a user prints their job while this feature is activated, only the print metadata are sent to the server and the actual print job does not leave the computer (it is stored there as a RAW file). It waits until the user authenticates themselves at a printing device and selects to print the job there. After that, the printing device notifies the server, the server notifies the computer and the computer sends the job directly to the printing device, where it is printed.



To enable this feature, you have to set a TCP/IP port for the service, install the MyQ Desktop Client application on the client's computer and enable the Client Spooling feature. (For information on how to install and set up MyQ Desktop Client on client's computers, see the *MyQ Desktop Client for Windows* guide).

If the computer of the user is switched off during the sending of the job, the job is **Paused** on the server. The administrator can release the job once the user has switched on their computer again.

### 12.9.1 Windows settings

The settings in the Configure Standard TCP/IP Port Monitor dialog box (in the printer's settings) must have the following values:

- **Printer Name or IP Address**: *127.0.0.1* (IP address of the localhost in Windows) or *localhost*
- Protocol: Select LPR
- **Queue Name**: queue name according to the MyQ server setting (same as if printing to the MyQ server)
- LPR Byte Counting Enabled: Selected
- SNMP Status Enabled: Deselected

Configure	e Stand	ard TCP/IP Port Monitor	x	
Port Settings			_	
Port Name:		Client_Spooling		
Printer Name or IP Address	:	127.0.0.1		
Protocol				
○ Raw		LPR		
Raw Settings				
Port Number:	9100			
LPR Settings				
Queue Name:	MyQ			
✓ LPR Byte Counting Enabled				
SNMP Status Enabled				
Community Name:	public			
SNMP Device Index:	1			

# 12.9.2 MacOS settings

- Go to Apple menu > System Preferences, and then click Printers & Scanners.
- Click the plus button (+) to add a new printer.

• • • < > :::: Pr	inters & Scanners	Q Search	
+ -		printers are available. Id (+) to set up a printer.	
	Default printer:	st Printer Used 📀	
	Default paper size: A4	1 🖸	?

• In the **Protocol** field, select *Line Printer Daemon - LPD* from the list.

•	Add Printer	
	ā 🌐 🛱	
Address	AirPrint Internet Printing Protocol - IPP	
Protocol	✓ Line Printer Daemon - LPD	
Queue	HP Jetdirect - Socket Leave blank for default queue.	
Name:		
Location:		
Use:		0
?		Add

• In the **Address** field, add the IP address or host name of the localhost. In the **Queue** field, add a queue name according to the MyQ server setting. Add a **Name**, and a **Location** for your printer. In the **Use** field, select a printer driver from the list. Click **Add** to setup the printer.

•		Add P	rinter		
	Ē	<b>()</b>	Ē	®®	
Address:	10.14.5.150				1
	Valid and complete h	iost name oi	r address.		
Protocol:	Line Printer Daer	mon - LPD		0	
Queue:					
	Leave blank for defa	an queue.			
Name:	10.14.5.150				
Location:					
Use:	Generic PCL Prin	nter		0	
	The selected printer you use all the feature			e manufacturer and may not let	

• Once the printer is set up, it appears on the Printers & Scanners list.

• • • < > Pr	inters & Scanners	Q Search
Printers 10.14.5.150 • Idle, Last Used	Location: Kind: Generic PCL Status: Idle	rint Queue & Supplies Laser Printer
+ -	Share this printer on the ne	twork Sharing Preferences
	Default printer: Last Printe	
	Default paper size: A4	?

### 12.9.3 Limitations

The Client Spooling feature has the following limitations:

- Job processing:
  - Jobs are not parsed (number of pages, color etc. is unknown).
  - User detection from PJL is not supported.
  - ° Computer detection from PJL is not supported.
  - $^\circ\,$  Job name cannot be read from the PJL header.
  - Job processing defined on the queue cannot be applied.
  - User policies cannot be applied.
  - Prologue/epilogue is not supported
- If the client PC is offline, the job is not printed, but it is marked as printed on the server. User is not notified.
- Jobs cannot be marked as favorite.
- The user detection method currently only supports "Job sender".
- MyQ Smart Job Manager can send the job to the printer only via the RAW protocol.
- The jobs are deleted after 7 days. The **Delete jobs older than** option on the **System maintenance** settings tab should be set to *168 hours* (as it is by default) in order to prevent discrepancy between the data stored in MyQ and the data stored on the client computer.

# 12.10 Fallback printing

With MyQ Desktop Client installed and running on the end user's workstation, you can select a backup printing device to be used for print when connection to the MyQ server is lost. The **Fallback printing** feature serves as an important backup tool in case of a server outage. Furthermore, it can be combined with the **Client Spooling** 

and the **Offline login** features on MyQ embedded terminals to enable using hold print, pull print and delegated print on the printing device.

- For information on how to install and set up MyQ Desktop Client on client's computers, see the *MyQ Desktop Client for Windows* guide.
- For information about support and setup of the **Client Spooling** and the **Offline login** features on a particular MyQ embedded terminal, see the respective MyQ embedded terminal manual.

After the installation, you need to configure the print driver port to send print files to MyQ Desktop Client, which then sends them either to the MyQ server or directly to the printing device, depending on the availability of connection to the MyQ server.

The settings in the Configure Standard TCP/IP Port Monitor dialog box must have the following values:

- **Printer Name or IP Address**: *127.0.0.1* (IP address of the localhost in Windows) or *localhost*
- Protocol: LPR
- **Queue Name**: queue name according to the MyQ server setting (same as if printing to the MyQ server)
- LPR Byte Counting Enabled: Selected
- SNMP Status Enabled: Deselected

Configure Standard TCP/IP Port Monitor				
Port Settings				
Port Name:		Failover Printing	]	
Printer Name or IP Address:		127.0.0.1	1	
Protocol				
◯ Raw		LPR		
Raw Settings				
Port Number:	9100			
LPR Settings				
Queue Name:	Queue	(		
LPR Byte Counting Ena	bled			
SNMP Status Enabled				
Community Name:	public			
SNMP Device Index:	1			
		OK Cancel		

Jobs

# 13 Jobs

This topic discusses one of the key functions of MyQ — setting and management of print jobs. It covers the following subjects:

- Print jobs global settings: Jobs settings tab
- Print jobs list, individual jobs settings and deleting jobs: List of jobs, Editing jobs, Deleting jobs
- Page Description Languages (PDL)
- Print jobs parser: Jobs Parser
- Notifying users and the administrator about refused jobs: Notifying the admin and users about refused jobs
- Using PJL commands for additional job processing actions: Processing Jobs via PJL Commands
- You can use PHP scripts to further process the job after it is received by the MyQ server: Scripting (PHP)
- When your brand supports PDL (page description language) check out this chapter: Prologue, Epilogue
- Setting up and previewing jobs: Jobs Preview
- When you have a dedicated Job Archiving license and the Job Preview feature set up on the MyQ server, you can automatically archive all print jobs that are sent to MyQ: Job Archiving

# 13.1 Jobs settings tab

On the **Jobs** settings tab, you can set the global properties of jobs in the MyQ print environment.

#### Jobs

	Settings: Jobs	~ @
% Settings	Jobs	
Configuration Profiles     Configuration Profiles     Printer Discovery      Printer Discovery      Freminal Actions     Secure     Secure	Seneral     Notifications on job receiving errors     Job parser	
R Users	> Jobs via LPR protocol	
Policies	> Jobs via IPPS	
Reference Synchronization	> Jobs via mobile devices	
🕜 Rights	> Jobs via Email	
Accounting	> Jobs via Web	
👩 Credit 🚯 Quota	> Jobs preview	
Projects	✓ Job Privacy	
👩 Price lists	Job privacy feature limits access to sensitive job metadata for everyone but job owner and his/her delegates. WARNING: Once enabled it cannot be disabled again!	
Jobs	Enable Job Privacy (irreversible)	
<ul> <li>Scanning &amp; OCR</li> <li>Code Books</li> </ul>	Save Cancel	
🕑 Reports	Fields marked by * are mandatory.	
C External Reports	Watermark collections	Edit   × Delete
	Name Queues	

#### General

Here you can set the Maximum job size (default size is 600MB).

In the **Office file formats** subsection, you can select the method of processing and printing the Office format files. You can select from *Convert to PDF* (default) and *Via a Windows printer*. For details check Processing documents in Office formats.

#### Notifications on job receiving errors

Check the **Notify the administrator via email** and/or the **Notify the job sender via email** boxes, to send notification emails about refused jobs.

The job sender is always notified via MyQ Desktop Client, if installed.

#### Job parser

Here you can activate, or deactivate the Job parser tool. You need to activate the Job Parser if you want to know job details (page count, color, paper size, etc.) before the job is printed. It is necessary for features like credit, quota and PHP scripting. If you don't use these features, you might want to disable the Job parser, as it is CPU intensive. The default setting is **Enabled**.

#### Jobs via LPR protocol

Here you can enable the **Jobs via LPR protocol** feature (*enabled* by default). If it is deactivated, MyQ cannot receive print jobs via LPR.

The server knows the job sender (to be able to notify MyQ Desktop Client about job processing) through the hostname sent by the LPR protocol. The maximum length of the hostname is 31 characters.

The maximum job size received over LPR is *100GB*. Jobs with a size of over *2GB* are described as: "*More than 2GB*"; for jobs below *2GB*, the real size is displayed.

It is recommended to keep the **Jobs via LPR protocol** option enabled. If it is disabled, jobs sent from print drivers cannot be received by MyQ.

You can also change the **port** here, although it is recommended to use the default setting (*515*).

#### **Jobs via IPPS**

Here you can enable printing jobs via the IPPS protocol. You can also change the **port** here (default is *8631*).

For more information, see Jobs via IPPS.

#### Jobs via mobile devices

This feature allows you to use mobile printing via MyQ X Mobile Client and AirPrint or Mopria. It is enabled by default.

The standard **port** is *8632* and it's editable.

For more information, see MyQ X Mobile Client app, and mobile printing via AirPrint or Mopria.

#### Jobs via Email

Here you can enable or disable the **Jobs via Email** feature, which enables receiving print jobs sent via email. The email attachment is processed and sent as a print job (the email body can be processed as well). PDF/A, TXT and JPEG formats are supported. For MS Office formats, MS Office or LibreOffice must be installed on the MyQ server.

For more information, see Printing from email and from the MyQ Web UI.

#### Jobs via Web

Here you can enable or disable the **Jobs via Web** feature, which enables users receiving print jobs via the MyQ web interface. You can also set the maximum job file size here between *20MB* to *120MB* (*120MB* by default).

For more information, see Printing from email and from the MyQ Web UI.

#### Jobs preview

Here you can enable/disable and set up **Jobs preview**.

For more information, see Jobs preview.

#### Job Privacy

Here you can enable the **Job Privacy** feature.

For more information, see Job Privacy.

#### Watermark Collections section

Here you can set up watermark collections.

For more information, see Watermarks.

# 13.2 List of jobs

On the list of jobs on the **Jobs** main tab, you can see all print jobs and information about them.

🔚 Jobs	C Ready					🖹. Previev	Actions	- 🛛 😁 Tools	🔹 💭 Refresh	Search Q
🔻 🛅 All jobs	Status	😭 🖹 Name		Size Owner	Received  Queue	Computer	B&W total	Color total	Copies	Printed date
C Ready	Today									
0 Paused	Ready	Test Page		58.60 KB John Doe	10/02/2022 09:50:58 myq	VM695476377	0	1	1	-
Printed	Ready	Test Page		58.60 KB John Doe	10/02/2022 09:50:58 myq	VM695476377	0	1	1	-
S Favorite	Ready	Test Page		58.60 KB John Doe	10/02/2022 09:50:58 myq	VM695476377	0	1	1	-
Failed jobs	Ready	Test Page		58.62 KB John Doe	10/02/2022 09:50:57 myq	VM695476377	0	1	1	-
Q All	Ready	Test Page		58.62 KB John Doe	10/02/2022 09:50:57 myq	VM695476377	0	1	1	-
Q. M.	Ready	Test Page		58.62 KB John Doe	10/02/2022 09:50:57 myq	VM695476377	0	1	1	-
	Ready	Test Page		58.62 KB John Doe	10/02/2022 09:50:56 myq	VM695476377	0	1	1	-
	Ready	Test Page		58.62 KB John Doe	10/02/2022 09:50:56 myq	VM695476377	0	1	1	-
	Ready	Test Page		58.62 KB John Doe	10/02/2022 09:50:55 myq	VM695476377	0	1	1	-
	Ready	Test Page		58.62 KB John Doe	10/02/2022 09:50:37 myq	VM695476377	0	1	1	-

### 13.2.1 Jobs display options

On the left side of the **Jobs** main tab, you can see the **All jobs** drop-down menu. On the menu you can select from the following options:

- **Ready** Displays jobs ready to print.
- Paused Displays paused jobs.
- Printed Displays printed jobs.
- Favorite Displays favorite jobs.
- Failed jobs Displays failed jobs.
- **Deleted** Displays deleted jobs.
- All Displays all jobs.

### 13.2.2 Job status

There are seven print job status types:

- **Processing** The job is being examined and prepared for printing.
- **Ready** The job has been placed on a print queue and is waiting for users to authorize it or for preceding jobs to finish.
- **Paused** The job has been manually paused by the user or automatically by the MyQ system.
- **Printing** The job is being sent to the printing device.
- **Printed** The job has been printed and is stored on the MyQ server. The print job is marked as Printed when it was completely sent to the printer. On a printer where MyQ can check actual printing results (printers with EMB terminal 8.1 and higher), this status is updated according to the printing results.
- **Failed** The job was either not parsed correctly, failed to be processed or had no metadata (not allowed) and failed to be printed.
- Deleted The job has been deleted from the MyQ server.

### 13.2.3 Favorite jobs

All print jobs, except for the deleted ones, can be marked as **Favorite**. Favorite print jobs are not automatically deleted after the period set on the **System maintenance** settings tab and remain permanently stored on the MyQ server, except for favorite

jobs from external code books that are no longer available at the code book's data source.

# 13.3 Editing jobs

To open a print job properties panel, double-click the job on the list on the **Jobs** main tab (or select the job, then click **Actions** on the toolbar above, and then click **Edit** in the job action dialog box). The panel opens on the right side of screen.

On the panel, you can see general information about the print job, such as its name and ID, size, its author and the IP address of the author's computer. If you use the **Jobs Parser** tool, you can see additional data such as the B&W total, color copies, number of copies, paper format, duplex, toner saving, staple, punch, the printer language used, and the price of the job. For more information, see Job Parser.

You can also change the print job's **Owner** and **Project** in their respective list boxes.

Only an administrator and user group leaders can change the owner of a print job. The administrator can move jobs between all users and the user group leader can move jobs between members of their subordinate group.

If you change the job owner, the new owner has to have rights to the current queue and project. If you change the project, the current job owner has to have rights to the new project.

### 13.3.1 Deleting jobs

To delete selected jobs:

- 1. On the jobs list on the **Jobs** main tab, select the jobs that you want to delete, and then click **Actions**.
- 2. In the Actions drop-down box, click **Delete**. You can find the deleted jobs on the **Deleted** jobs list.

# 13.4 Page Description Languages (PDL)

A page description language (PDL) is a language that describes the appearance of a printed page. It receives a code of a document sent to a printing device, interprets it and uses it to instruct the printing device where and how to place text and graphics onto the print page.

The most common page description languages are PCL 5, PCL 6 (XL) and PostScript.

# 13.5 Job Parser

An embedded print job parser is a part of the MyQ system. This tool provides you with additional information about individual print jobs.

Based on those, you can set additional print job rules, or control the job price before a job is printed. This is important, especially for credit accounting and quotas.

The job parser supports the majority of available printer drivers in PCL5, PCL6 and PostScript.

The job parser is activated by default on the **Jobs** settings tab during a new installation. An upgrade will keep the old setting.

The job parser provides the following information:

- page description language (PDL)
- job name
- user name
- number of B&W pages
- number of color pages
- number of copies
- Simplex/Duplex option
- paper format
- staple
- punch
- toner saving

## 13.6 Notifying the admin and users about refused jobs

In case a print job is refused for some reason, for example if it was sent to a wrong queue, or if the user has been denied printing by a MyQ policy, the job owner and the MyQ administrator can both be informed about the event.

The administrator can be notified via email, and the user can be notified via email or via a small pop-up dialog box at the bottom-right corner of the screen. Users are just notified about the event, whereas the administrator is informed about the problem's details.

To be able to see the pop-up messages, users should have the MyQ Desktop Client application installed and running on their computers.



• Time: 22 June 2016 07:28:13

- User
- Job name: N/A
- Error: Job is too large (48 MB). Maximum size is 1 MB.
- Error code: 4

2016-06-22 07:28:11: Job is too large (48 MB). The maximum size is 1 MB. The job was discarded.



#### To activate the notifications via email

On the **Jobs** settings tab, under **Notifications on jobs receiving errors**, you can select two options:

- Notify the administrator via email: The email message is sent to the administrator's email address set on the **General** settings tab, under **General**.
- Notify the job sender via email: the email message is sent to the primary email address set as Email on the user's properties panel on the Users settings tab.

🗐 Jobs	
<ul> <li>General</li> <li>Notifications on job receiving etail</li> </ul>	errors
Notify the administrator via email: Notify the job sender via email:	

#### To activate the notifications via the MDC pop-up window

The only condition for activation of the pop-up notification for a user is for MyQ Desktop Client to be installed and running on their computer.

For information on how to install and set up MyQ Desktop Client, see the *MyQ Desktop Client for Windows or macOS* guide.

# 13.7 Jobs Preview

With MyQ's default software, **MAKO**, or a third-party job preview software installed on the MyQ server, you can enable MyQ users and the MyQ administrator to preview print jobs that are sent to MyQ in one of the three most common page description languages: **PCL 5, PCL 6** and **PostScript**.

After the feature is set up, both users and the administrator can open the job preview on the **Jobs** main tab in the MyQ Web Interface.

To set up the feature, go to MyQ, Settings, Jobs.

In the **Jobs preview** section you can enable or disable the preview. Select one or more output types from **PCL 5**, **PCL 6** and/or **PostScript**, and from the drop-down, choose the actual tools to be used for the preview. The options are:

• Built-in preview generator: MyQ's internal preview engine, MAKO

• **External**: A third-party engine of your choosing. If selected, it is necessary to type the command and parameters to be used for the preview, and it's optional to choose to **Remove Prescribe** or not, if the external software does not support **Prescribe** orders.

The following examples show you what the command line can look like:

**PostScript** (GhostScript: tested for 921): "C:\Program Files\Ghostscript\gswin64c" -q -dNOPAUSE -dBATCH -sDEVICE=pdfwrite -sOutputFile="%outFile%" "%inFile%"

**PCL** (GhostPCL): "C:\Program Files\GhostPCL\gpcl6win64" - dNOPAUSE -sDEVICE=pdfwrite -sOutputFile="%outFile%" "%inFile%"

▼ Jobs preview		
Enabled:		
PCL 5:	Built-in preview generator	•
PCL 6:	Built-in preview generator	•
PostScript:	External	<b></b>
		Remove Prescribe:
9	6inFile%=input file, %outFile%=output PDF	F file

### 13.7.1 Previewing jobs

The jobs can be previewed on the **Jobs** main tab in the MyQ Web Interface (**MyQ**, **Jobs**).

To preview a print job, select the job on the tab and click **Preview** at the left side of the toolbar (or right-click the job, and then click **Preview** on the shortcut menu).

The default number of pages shown in the Jobs Preview using the built-in preview generator is 5. This number can be changed in the config.ini file, under: [JobPreview] jobPreviewPages=numberOfPages

If *jobPreviewPages=0* is set, a preview of all the pages is generated.

# 13.8 Job Archiving

With a dedicated **Job Archiving** license and the Jobs Preview feature set up on the MyQ server, you can automatically archive all print jobs that are sent to MyQ. On selected brands of printing devices, you can also archive all copy and scan jobs.

This way you can have full control over what has been printed, scanned and copied within your printing environment, which can be required for example in high security areas in order to be able to identify sources of data leaks.

# 13.8.1 Setting up job archiving

The feature is not part of the default setup of the MyQ server and before the **Job Archiving** license is added to the server, the settings of the feature on the MyQ Web Interface are hidden from the administrator.

After you add the licenses, you can set up the feature on the **Jobs** settings tab of the MyQ Web Interface.

You can enable or disable the feature and change the folder where the jobs are archived (by default it is the

Archive sub-folder of the MyQ data folder).

<ul> <li>Jobs archiv</li> </ul>	ving	
The job archiving	g feature stores all print/	copy/scan/fax jobs and their metadata in the archive folder.
	Enabled:	
	Archive folder: *	%app%\Data\Jobs\Archive
		%app% is the MyQ data folder
	Connector:	Hot folder
		Configure an external application for retrieving jobs from the archive folder. Print job archiving requires the job preview feature to be enabled.
▼ Advanced -		
P	Metadata generator:	
		PHP class for custom data processing

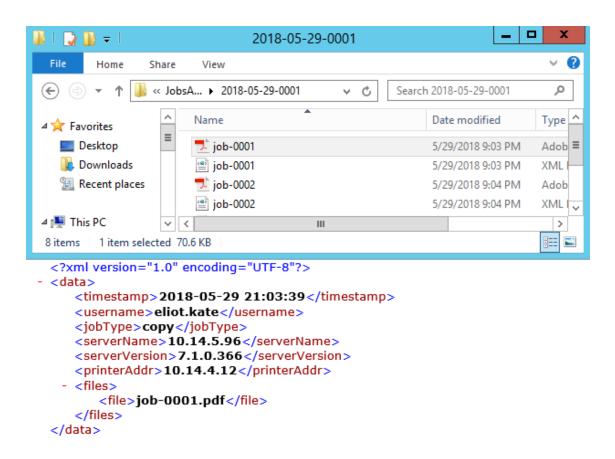
# 13.8.2 Viewing archived jobs

The jobs are stored in subfolders of the **Archive folder**, each of these sub-folders has the form:

**YYYY-MM-DD-XXXX**, where the front part informs about the date when the subfolder was created, while the number at the last part serves to sort sub-folders created in the same day.

In the subfolders, you can find two files for each of the printed, copied or scanned jobs:

- a PDF file with the preview of the job
- an XML file with basic information about the job, such as the type of the job or the username of the printing user.



# 13.9 Jobs via IPPS

To use Jobs via IPPS you should first adjust the following:

- Make sure that the IPP client is enabled on your machine. For example, on Windows 10, this should be enabled by default, but on Windows Servers, you need to enable it explicitly:
  - Control Panel Programs Turn Windows features on or off in the dialog, click **Next** until you get to the features tab - Install "Internet Printing Client", and Restart the machine.
- Next, you need to install the MyQ certificate on your machine. For example, in MyQ Server 8.2+, you can create a self-signed certificate in the following way (check here for more info):
  - Go to MyQ, Settings, Communication Security. Select Built-in Certificate Authority, add your host name as a Subject Alternative Name (SAN), click Generate new, click Save, and then Export.
  - $\circ~$  Install the certificate and place it into Trusted Root Certification Authorities.
  - Restart all MyQ services.
- Enable Jobs via IPPS in MyQ, Settings, Jobs, Jobs via IPPS.

Jobs via IPPS	
ol print jobs securely via the IPPS protocol from Windows, Mac or Linux PCs. Each MyQ queue is accessible via the following URL address ps://{hostname}:{port}/queue/{queue-name}.	5:
Enabled: o	
Port: * 8631	

The feature is available on Windows, Linux, Chromebooks and Mac PCs. For all of them you need to adjust the URL *https://{hostname}:{port}/queue/{queue-name}* to your own needs to get IPPS working. For the port number use the one set in **MyQ**, **Jobs, Jobs via IPPS** (*8631* by default).

PM Server uses the 631 port for IPP print and 717 for IPPS and cannot be changed (see MyQ, Settings, Network, PM Server), so these values cannot be used for MyQ IPPS printing.

The maximum job size received over IPPS is unlimited.

### 13.9.1 IPPS via Windows

When you add a new network printer to be used with IPPS, make sure to search using the queue name, host name and port in the URL.

$\leftarrow$	🖶 Add Printer		
	Find a printer by other options		
	○ My printer is a little older. Help me find it.		
	$\bigcirc$ Find a printer in the directory, based on location or feature		
	Select a shared printer by name		
	https://{hostname}:{port}/queue/{queue-name}.		Browse
	Example: \\computername\printername or http://computername/printers/printername/.printer		
	○ Add a printer using a TCP/IP address or hostname		
	○ Add a Bluetooth, wireless or network discoverable printer		
	○ Add a local printer or network printer with manual settings		
		Next	Cancel
The	sharing of a Windows IPPS printer is not supported.		

×

### 13.9.2 IPPS via MacOS

To add IPPS printing via MacOS:

- 1. Go to the **Add printer** page.
- 2. Go to the **IP** tab on the ribbon.
- 3. Fill out the following fields:
  - a. Address: use https://to get IPPS printing,
  - b. Protocol: select the AirPrint protocol,
  - c. **Queue**: the name of the MyQ queue.
- 4. Click Add.

• • •	Add	
<u>Q</u>	Q Search	
Default IP \	Windows Search	
Address:		
Address.	Valid and complete host name or address.	
Protocol:	AirPrint	
Queue:		
Queue.	Anderescolor	
Name:	tmqprg-tmyqt3.myq.cz	
Location:		
Use:		
Buch	Gathering printer information	
	Add	
	Лим	

Since AirPrint is used, users are required to sign in to be able to print.

### 13.9.3 IPPS via Chromebook

To add IPPS printing via Chromebook:

- 1. In the Chromebook, sign in to your Google Admin Console in *https://admin.google.com*/using an administrator account.
- 2. In the Google Admin Console, select **Devices** and then **Chrome** and **Printers**.

≡ Google Admin	
Devices	
- Chrome	
Devices	
Managed browsers	
<ul> <li>Settings</li> </ul>	
<ul> <li>Apps &amp; extensions</li> </ul>	
Printers	
<ul> <li>Reports</li> </ul>	
<ul> <li>Mobile &amp; endpoints</li> </ul>	
Networks	

- 3. To apply the IPPS setting to all the printers, select the top organizational unit on the list. Otherwise, select any of the child units.
- 4. To add new printers, click on the printer icon on the lower-right corner.

$\equiv$ Google Admin			8 0	
Device management > Chrome >	Printers v			
All printers > MyQ spoil. s r.o.				
Include all organizational units	No printers			
Search for organizational units	Q Search printers			
✓ MyQ spol. s r.o. Tisk	Display Name 🌩 Model Description			
		No printers.		
				0 =
				•
				+
MANAGE ORGANIZATIONAL UNITS	5			

5. In the **Add Printers** window, fill in the mandatory fields and adjust the device URL

*https://{hostname}:{port}/queue/{queue-name}* according to your own configuration.

6. Select **ADD PRINTER** and the new printer is now created.

Add Printers			
Printer name *			
Description Use driverless configurat	tion		 
Select manufacturer * 💌	Select model *		
ipps 💌 Host *	port	path	
ipps  Host * indicates a required field	port	path	

7. Select the new printer to confirm if the IPPS settings are applied according to the organization's configuration.

1 printer	Ipps ×
Q. Search printers	Printer Settings Allow for users in this organization
DisplayName      Model     Description     tops	Locally applied ~ Allow for devices in this organization Locally applied ~
	Allow for managed guest sessions in this organization Locally applied $ \sim$
	Printer Details Name * tops
	Description Description
	Uri * kpps://WIN-80552H1E044.8631/quever/lpps
	Use driverless configuration
	* indicates a required field
	•
The driverless configuration is not recommende be printed this way. There is no error in the Chr	

To include user accounts and file names in the jobs printed via Chromebook:

on MyQ's side either, since the job never reaches MyQ.

- 1. In the Chromebook, sign in to your Google Admin Console in *https://admin.google.com*/using an administrator account.
- 2. In the Google Admin Console, select **Devices**, **Chrome**, **Settings** and then **Users & browsers**.

$\equiv$ Google Admin	٩
Devices	
- Chrome	
Devices	
Managed browsers	
✓ Settings	
Users & browsers	
Device	
Managed guest sessions	
<ul> <li>Apps &amp; extensions</li> </ul>	
Printers	
<ul> <li>Reports</li> </ul>	
<ul> <li>Mobile &amp; endpoints</li> </ul>	
Networks	

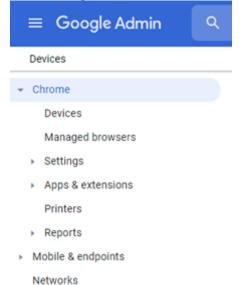
3. In the Users & browsers settings window, scroll down to **Printing – Native print job information**. From the drop-down, select *Include user account and filename in print job* (You can click on the question mark icon next to **Native print job information**, to see extra information about the parameter).

= Google Admin		search for users, groups or settings			
Devices > Chrome > Settings	*				
Search for organizational units		USER & BROWSER SET	TINGS	DEVICE SETTINGS	MANAGED QUEST SES
<ul> <li>MyQ spol. s r.o.</li> </ul>	•	+ Search or add a filter			
Tisk			Default page sides Inherited from Google default	One-sided 🔝	
			Restrict page sides Inherited from Google default	Do not restrict duplex printing mode $$	
			Background graphics printing default Inherited from Google default	Disable background graphics printing mode by default $\sim$	
			Background graphics printing restriction Inherited from Google default	Allow the user to decide $ v$	
			Native print job information	Share user account and filename in mint inh	0
			Locally applied w	Include user account and filename in print job	Ŭ
				Do not include user account and filename in print job	
			Print job history retention period	Days to store print job history on device	
			Inherited from Google default	90 The number of days that print job history will be stored locally on the device. Use -1 to sto indefinitely or 0 to disable storage.	e .
			Print job history deletion Inherited from Google default	Allow print job history to be deleted $$	

If you want to (optionally) deploy SSL certificates via the Google Admin Console:

1. In the Chromebook, sign in to your Google Admin Console in *https://admin.google.com*/using an administrator account.

2. In the Google Admin Console, select **Devices** and then **Chrome** and **Networks**.



3. In the Networks window, select **Certificates** and in the Certificates window, select **Add Certificate**.

- 4. Type a **Name** for the certificate and click Upload to upload your certificate.
- 5. In the Certificate Authority section, choose Chromebook.
- 6. Click ADD

Apple		
Certifi	ficate lied at MyQ spol. s r.o.	Name UPLOAD
Certifi		Upload a .PEM, CRT, or .CER file
	ficate Authority	Use as a Certificate Authority for the following
		A Multiple sign-in will be disabled for users where SSL-inspecting certificates are in effect
		HTTPS security may be severely compromised if the private key portion of this certificate isn't stored securely.
		Android     Chromebook     105
		Imprivata App on Chromebooks
		You need to enable advanced mobile management to apply the Android and IOS settings.     ENABLE ADVANCED

To deploy the certificate, use an open guest Wi-Fi network. Your Chrome devices will authenticate to Google and receive the TLS or SSL certificate. The pushed certificate will apply to all enrolled Chrome devices on the primary domain.

To verify the CA on managed Chrome devices:

- Go to chrome://settings/certificates.
- Click Authorities.
- Scroll down to see the newly-added CAs. CAs setup in your Admin console is highlighted as follows:

na araproya	Certificate manag	er			
ren't in a lanc	Your Certificates	Servers	Authorities	Others	
	You have certificat	tes on file th	nat identify the	se certificate authorities:	
_	certSIG	N ROOT CA			
	- 🦳 Chromedep				
	Chromedeployment				
This certific administrate	ate has been installed or.	by your sys	tem		

## 13.9.4 IPPS via Linux

To add IPPS printing via Linux:

- Set up a CUPS service in order to add a printer.
- Add a printer with the MyQ Print Server hostname.
- In the New Printer window, click Enter URI. Type the device URL in the Enter device URI field, in the https://{hostname}:{port}/queue/{queue-name} format.

	New Printer X
Select Device	
Devices	Enter device URI
Enter URI	https://tmqprg-tmyqt3.myq.cz:8631/queue/color
Network Printer	For example: ipp://cups-server/printers/printer-queue ipp://printer.mydomain/ipp
c	Cancel Forward

- Click Forward.
- In the Choose Driver pane, mark **Select printer from database**, and then select *Generic*.
- Click Forward.
- In the next window, under **Choose Driver**, select *IPP Everywhere*. Although the selection option says IPP, this protocol is used for IPPS spooling.

	New Printer ×
Choose Driver	
Models	Drivers
Braille embosser	Generic IPP Everywhere Printer [en] (recommended)
ESC/P Dot Matrix	
GDI	
IBM-Compatible Dot Matrix	
IPP Everywhere	
OAKT	
PCL 3	
PCL 4	
PCL 4 LF	
PCL 5	
PCL 5c	
PCL 5c LF	
PCL 5e	
PCL 5e LF	
PCL 5 LF	
PCL 6	
PCL 6 LF	
PCL 6/PCL XL	
	Back Cancel Forward

- Click Forward.
- Enter the name of the printer.
- Click **Finish**.

**IPPS** Authentication is not used (job is assigned according to username).

## 13.10 Job Privacy

The Job privacy feature limits access to sensitive job metadata for everyone, except for the job owner and their delegates.

You can enable the feature in the Jobs settings tab (MyQ, Settings, Jobs).

If you have a MyQ Central server setup and Job Privacy is enabled at your Central server, it will be automatically enabled on all the connected Site servers.

Once the Job Privacy feature is enabled, it cannot be disabled again!

To use the feature, click on the **Enable Job Privacy (irreversible)** button.

▼ Job Privacy
Job privacy feature limits access to sensitive job metadata for everyone but job owner and his/her delegates. WARNING: Once enabled it cannot be disabled again! Enable Job Privacy (irreversible)
Save Cancel

In the confirmation pop-up, type your MyQ administrator password in the **Password** field, and click **Enable Job Privacy (irreversible)**.

Confi	rm	×
⚠	WARNING: Once enabled it cannot be disabled again! Do you really want to enable Job Privacy?	
	Password: ····	
	Enable Job Privacy (irreversible)     Cancel	

The Job Privacy feature is now enabled.

<ul> <li>Job Privacy</li> </ul>	
Job privacy feature limits access to sensitive job metadata for everyone but job owner and his/her delegates. WARNING: Once enabled it cannot be disabled again!	
Job Privacy is enabled.	
Save Cancel	

# 13.11 Watermarks

On the MyQ Web Interface, you can create collections of watermarks and associate them with the queues where they will be used. Each collection can contain multiple watermarks and can be associated with any number of queues.

PostScript, PCL6 and PDF drivers are supported, but should be selected by the user when they want to see the watermarks printed in their document.

Jobs sent to a queue will have the watermarks of the associated collection printed on each page.

Individual watermarks can be positioned horizontally at the top of the page, horizontally at the bottom of the page, or diagonally. The text size of the watermark can be from 6 to 25. You can also represent the text of the watermark as a QR code or a Bar code.

A watermarks collection cannot be deleted if there is at least one queue attached to it.

# 13.11.1 Creating, editing, and deleting watermark collections

The watermarks collections are created in the **Watermark collections** section at the bottom of the **Jobs** settings tab (**MyQ**, **Settings**, **Jobs**).

Projects Price lists	Watermark collections	
Jobs	🕀 Add 🥒 Edit   🛛 Delete	
Scanning & OCR	Name	Queues
Code Books	A	Number of queues: 1
🕒 Reports	A+B	Number of queues: 1
External Systems         Image: Log & Audit         System Management	B	Number of queues: 1

### Creating a new watermark collection

To create a new watermark collection:

- 1. On the **Jobs** settings tab, under **Watermark collections**, click **+Add**. The properties panel of the new collection opens on the right side of the screen.
- 2. On the panel, enter the **Name** of the collection, then create the watermarks, and lastly click **Save**.

A+B+C		×
General Queues		
	Name: * A+B+C	
	✓ Save Cancel	
Fields marked by * are i	mandatory.	
🕀 Add watermark	🖉 Edit   × Delete	
Enabled Text	Position Size	
	The list is empty	

## Editing a watermark collection

The properties panel of the collection opens immediately after the collection is created. To open a properties panel of an already existing collection, select it on the list on the **Jobs** settings tab, under **Watermark collections** and click **Edit**.

On the properties panel, you can rename the collection, create and remove watermarks, and assign or remove them from queues.

## **Deleting a watermark collection**

To delete a collection:

On the **Jobs** settings tab, under **Watermark collections**, select the collections that you want to delete, and then click **Delete**.

# 13.11.2 Adding, editing, and deleting watermarks

Within each watermark collection, you can create an unlimited number of watermarks. Each of the watermarks in the collection can be activated or deactivated.

## Creating a new watermark

On the properties panel of the watermark collection, on the **General** tab, click **+Create watermark**. The properties panel of the new watermark opens. On the panel, set up the watermark, and then click **Save**.

Enabled:	
Text: *	Watermark A
	Parameters: %username%, %fullname%, %timestamp%, %defaultgroup%, %queuename%, %jobname%, %personalnumber%, %uuid%, %computer%
Text representation: *	QR Code
Position: *	Тор 💌
Size:	28 points
	Save Cancel

## **Editing a watermark**

The properties panel of a watermark opens immediately after the watermark is created. To open the properties of an already existing watermark, double-click it on the list on the **Jobs** main tab, under **Watermark collections**.

Each watermark has the following properties:

- Enabled: Enable/disable the watermark
- Text: Text of the watermark; max. length: 512 characters.
- Text representation: National characters which are included in the font (standard New Times Roman) are included for Text. The QR/Bar Codes support generally any unicode text. Restrictions can be found here: QR Code, Code 128, PDF417, and the most restrictive Code 39. The text can be represented in the following forms:
  - Text
  - QR Code
  - BAR Code 128
  - BAR Code 39
  - BAR Code PDF417
- **Position**: The watermark's position on the page (the default is: *Bottom right*)
  - Тор
  - Top Left
  - Top Right
  - Bottom
  - Bottom Left
  - Bottom Right
  - Diagonal: "Bottom to Top" (only available when *Text* is selected as **Text** representation; greyed out in *QR* and/or *BAR code*)
  - Diagonal: "Top to Bottom" (only available when Text is selected as **Text representation**; greyed out in *QR* and/or *BAR code*).
- Size: The watermark's text size (the default is: 28 and the Font is Times New Roman, which can be changed in the config.ini) should be a number from 6-85
  - 28 is small,
  - 57 is medium,
  - *85* is large.

- **Transparency**: Only visible when *Text* is selected as **Text representation**. The available values are:
  - Dark
  - Medium
  - Light
- A watermark in Postscript does not reflect paper orientation. It always prints as portrait.

## Deleting a watermark

On the properties panel of the watermark collection, select the watermarks that you want to delete, and then click **Delete**.

🖹 A +	В				×
Genera	Queues				
Name: * A + B					
Save Cancel					
🕂 Create watermark 🥜 Edit 🗙 Relete					
Enabl		43	Position	Size	
× .	This is the wa	itermark A	Тор	Normal	
•	This is the we	Actiniance A	104	Normal	

# 13.11.3 Attaching watermark collections to queues

You can attach a watermark collection to a queue either within the setup of the collection, or within the setup of the queue.

Each queue can have only one watermark collection attached to it.

#### Attaching watermark collections to queues within the setup of the queues

The collection can be selected on the **Job processing** tab of the properties panel of the queue. To open the properties panel, go to **MyQ**, **Queues**, and then double-click the queue on the list. On the **Job processing tab**, in the **Watermark** section, select the **Watermark** from the drop-down, and then click **Save**.

🖷 QueueX				×
General Job receiving	MyQ Desktop Client	Job processing	Printers	Rights
▼ Watermark				
Watermark:	A+B			•
Custom PJL	+ Add new A			
Scripting (PHP)	A+B A+B+C			
Custom data processin				
	✓ Save	Cancel		

#### Attaching watermark collections to queues within the setup of the collections

To assign a new queue to a watermark collection, select it on the on the list on the **Jobs** settings tab, under **Watermark collections**, and click **Edit**.

- 1. On the properties panel of the watermark collection, click **Queues**. The **Queues** tab opens.
- 2. On the tab, click **+Add**. A dialog box with a selection of queues appears.
- 3. Select the queue from the drop-down, and then click **OK**.

	A+B+C	×			
	General Queues				
GueueX V	i) Each queue can have only one collection. Adding a queue to this collection will remove it from other collection.				
	😧 Add 😑 Remove				
V OK Cancel	Name	Status			
	HQ	Ready			

# 14 Reports

In the MyQ web interface, on the **Reports** main tab (**MyQ, Reports**), you can create and generate reports with a variety of data concerning your printing environment. The reports can be related to users, printing devices, print jobs, etc.

🕒 Reports	C All reports
🕣 Add 🔻   🗟 Preview 🜔 Run 💌 🥒   🗙	Status Run at 🔻 Report Files Run by
▼  ☐ All reports ····	Today
▼	✓ 02/08/2022 2:35:0 My monthly summary SLSX Administrator
🕒 Users – My daily summary	✓ 02/08/2022 2:35:0 My sessions SCSV Administrator
🕒 Users – My sessions	✓ 02/08/2022 2:34:5 My daily summary
🕒 Users – My monthly summary	
Shared reports	

Reports in MyQ are divided into two main categories: **My Reports** and **Shared reports**. **My Reports** show

users reports created by themselves, while **Shared reports** show them reports created by the administrator or by other users.

There are three default reports: **My daily summary**, **My sessions** and **My monthly summary**. These are displayed in the **My Reports** folder of the MyQ administrator, who can modify them, delete them or change their design. For all the other users, the default reports are displayed in the **Shared Reports** folder and cannot be changed in any way.

In addition to the three default reports, the administrator can create an unlimited number of reports and sort them into sub-folders of the **My Reports** folder. Users can create their own reports but they are limited to use only certain report types depending on the rights granted by the administrator.

Each report can be directly displayed on the web interface and saved in any of the following formats: *PDF, CSV, XML, XLSX* and *ODS*. The reports can be automatically generated and stored in a predefined folder. There is no data limitation for the generated report, it includes all the data from the specified period.

All the reports have the MyQ logo displayed by default, but it can be replaced by your company's logo. To upload a custom logo go to **MyQ**, **Settings**, **Personalization**. In the **Custom application logo** section, click **+Add** next to **Custom logo** and upload your own file (supported formats - *JPG*, *JPEG*, *PNG*, *BMP* and recommended size - *398px* x *92px*).

# 14.1 Report Types

When you are creating reports on the **Reports** main tab, you can choose from a large number of built-in report types that are sorted into multiple categories. Some of the types are included in more categories (for example, *Groups: Daily Summary, Print Jobs: Daily Summary*, etc.), while some of the types are particular to only one category (for example, *Device Alerts in Alerts Maintenance or Credit Balance in Credit & Quota*).

You can overview all of the report types on the **Reports** settings tab, under **Report** types (in MyQ, Settings, Reports).

	🕒 Settings: R	eports			
潊 Settings	🕓 Reports				
₽ Network	🕀 Add   🧷	Edit   × Search Q			
🔔 Authentication servers	Туре	Name	Category A		
SNMP	Alerts and ma	intenance			
🗟 Printers & Terminals	Built-in	Counter analysis	Alerts and maintenance		
Configuration Profiles	Built-in	Event History	Alerts and maintenance		
nter Discovery	Built-in	Top N alerts summary	Alerts and maintenance		
Terminal Actions	Credit and qu	ota			
Events	Built-in	Credit balance	Credit and quota		
Sevent Actions	Built-in	Credit operations	Credit and quota		
8 Users	Built-in	Quota status for groups	Credit and quota		
Policies	Built-in	Quota status for users	Credit and quota		
R User Synchronization	Environmental				
C User Authentication	Built-in	Expired and deleted jobs	Environmental		
🕜 Rights	Built-in	Printers	Environmental		
Counting	Built-in	User groups	Environmental		
蒏 Credit	Built-in	Users	Environmental		
Quota	General				
Projects	Built-in	Day of the week	General		
Price lists	Built-in	Hourly activity	General		
Jobs	Built-in	Monthly statistics	General		
Scanning & OCR	Built-in	Price list comparison	General		
Code Books	Built-in	Weekly statistics	General		
🕒 Reports	Groups				
	Built-in	Counters by function and duplex(BETA)	Groups		
🔄 Log & Audit	Built-in	Counters by function and paper format(BETA)	Groups		
System Management	Built-in	Counters by paper format and duplex(BETA)	Groups		
	Built-in	Daily summary	Groups		

## 14.1.1 Providing users with rights to use a report

The administrator can run all the built-in reports and provide other users and groups with rights to run them as well. In **MyQ**, **Settings**, **Reports**, right-click on a report and click **Edit**. On the **General** tab, in the **Permission** for running the report field, choose users and groups from the list and click **Save**.

You can also add custom report types developed by the MyQ development team. To do so, just click **+Add**, upload the custom report definition file, select users or groups to access it, and click **OK.** For more information about custom report types, please contact MyQ support.

## 14.1.2 Report Categories

- Alerts and Maintenance These reports provide information about device alerts and unusual changes on device counters.
- Credit and Quota These reports contain information concerning credit and quota, for example the remaining credit or the state of quota of selected users.

• Environmental - These reports inform about the environmental impact of printing. They show how many trees needed to be harvested, how much energy was spent and how much carbon dioxide was emitted during the production of the paper used for printing and copying within your company's printing environment.

Data sources vary in their estimations. MyQ calculations in the report are based on the following data estimates:

- Carbon dioxide for paper production: 12,7 gram per paper sheet
- **Energy used for production**: 48 Wh per paper sheet or 32Wh for a recycled paper sheet
- **Trees**: 8333 paper sheets are counted as 1 tree.
- General These reports provide general information about the MyQ system, such as total counters statistics and printing peaks or comparison of price lists used for printers.
- Groups These reports inform about groups of users. They can contain information about membership, printed pages, weekly stats etc.
- Print Jobs These reports contain information about jobs printed in MyQ, such as the list of all expired and deleted jobs over a certain period.
- Printers These reports inform about all the printing devices in the MyQ system (both local and network). Generated reports can contain graphs of the device usage, daily, weekly and monthly counters, etc.
- Projects These reports contain information regarding projects and project accounting in MyQ, such as daily summary of projects or projects assigned to selected users over a certain period.
- Users These reports can contain various information about users. They can concern their print jobs, credit statements, printed pages etc.

## Alerts and Maintenance Reports

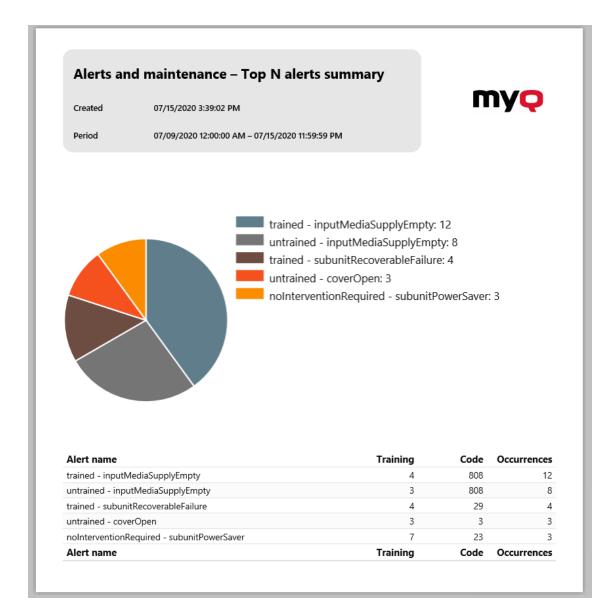
The reports included in the **Alerts and Maintenance** category are:

- Counter Analysis
- Device alerts
- Event History
- Top N alerts summary

Name	Parameters	Filters	Default Columns	Group by
Counter Analysis	Period Page counter	Printer name User name User group Page counter value (<, =, >)	Printer name Full name Session finish date Page counter B&W pages Color pages Total pages Scans Total price (additional column: Administrator price)	User name
Device Alerts	Period	Printer Resolved time (>)	Alert training level Alert code Alert name Alert severity Start date Resolved date Resolved in (hours)	Printer name
Event History	Period	Event name Printer name	Event name Event type Printer name Created Resolved	
Top N Alerts Summary	Period N	Printer name	Alert name Alert training level Alert code Occurrences	Alert name

The above reports don't support aggregate columns.

Charts are not available, except for the **Top N alerts summary** report where a *Pie, Doughnut* or *Bar* chart can be selected with the **Alert name** and **Occurrences** values.



## **Credit and Quota Reports**

The reports included in the **Credit and Quota** category are:

- Credit balance
- Credit operations
- Quota status for groups
- Quota status for users

Name	Parameters	Filters	Default Columns	Additional Columns
Credit balance		User name User group	User name Full name User group Credit balance	Personal number Phone Email Notes
Credit operations	Period	User name User group	Full name User group Created (date & time) Credit charge Credit balance Operation type Charge method Charger name Voucher code	Personal number Phone Email Notes
Quota status for groups		User group	Quota name Quota period Counter type Counter limit Counter value Quota usage (%) Quota boosts Deny print Deny copy Deny scan Deny color print Deny color copy Deny mono print Deny mono copy	Quota valid from Quota valid till

Name	Parameters	Filters	Default Columns	Additional Columns
Quota status for users		User name User group	Full name Quota name Target type Target name Quota period Counter type Counter limit Counter value Quota usage (%) Quota boosts Deny print Deny copy Deny scan Deny color print Deny color copy Deny mono print Deny mono print	Quota valid from Quota valid till Personal number Phone Email Notes

The above reports don't support aggregate columns, they are all grouped by the **User name** parameter and charts are not available.

## **Environmental Reports**

The reports included in the **Environmental** category are:

- Expired and deleted jobs
- Printers
- User groups
- Users

Name	Parameters	Filters	Default Columns	Additional Columns
Expired and deleted jobs	Period	User name Queue name	Queue name Job name Created (date & time) Job size (KB) B&W pages Color pages Total pages Job owner user name Job owner full name Trees CO2 (gram) Energy (Wh) Energy recycled (Wh)	
Printers	Period	Printer name	Printer name Total pages Trees CO2 (gram) Energy (Wh) Energy recycled (Wh)	
User groups	Period	Printer name User name User group	User group Total pages Trees CO2 (gram) Energy (Wh) Energy recycled (Wh)	
Users	Period	Printer name User name User group	User name Full name Total pages Trees CO2 (gram) Energy (Wh) Energy recycled (Wh)	Personal number Phone Email Notes

1 tree = 8333 pages / 1 page = 12.7g of CO2 / 1 page = 48Wh of energy / 1 recycled page = 32Wh of energy

The above reports don't support aggregate columns or charts.

## **General Reports**

The reports included in the **General** category are:

- Day of the week
- Hourly activity
- Monthly statistics
- Price list comparison
- Weekly statistics

Name	Parameters	Filters	Default Columns	Chart
Day of the week	Period Page counter	Printer name User name User group	Period (Day) B&W pages Color pages Total pages Scans Total price Administrator price	Pie, Doughnut or Bar <b>Category</b> : Day of the week <b>Values</b> : Page counter
Hourly activity	Period Page counter	Printer name User name User group	Period (Hour) B&W pages Color pages Total pages Scans Total price Administrator price	Pie, Doughnut or Bar <b>Category</b> : Daily hours <b>Values</b> : Page counter

Name	Parameters	Filters	Default Columns	Chart
Monthly statistics	Period	Printer name User name User group	Period (Year - Month) B&W pages Color pages Total pages Scans Total price (Additional columns: Administrator price Simplex Duplex)	Line <b>X-axis</b> : Month & year <b>Y-axis</b> : Page counter
Price list comparison	Pricelist Item	Printer name	Printer name B&W price Color price	Bar <b>Category</b> : Printers <b>1st value</b> : Pricelist item
Weekly statistics	Period	Printer name User name User group	Period (Year - Week) B&W pages Color pages Total pages Scans Total price ( <b>Additional</b> <b>columns</b> : Administrator price Simplex Duplex)	Line <b>X-axis</b> : Month & year <b>Y-axis</b> : Page counter

The above reports don't support aggregate columns.

## **Groups Reports**

The reports included in the **Groups** category are:

- Counters by function and duplex(BETA)
- Counters by function and paper format(BETA)
- Counters by function paper format and duplex(BETA)
- Daily summary
- Day of the week

- Monthly summary
- Top N
- Total summary
- User group membership

Name	Filters	Default Columns	Additional Columns	Group by
Counters by function and duplex(BET A)	Printer name User name User group Project name Accounting group	Group name User name Full name Print B&W Simplex Print Color Simplex Print B&W Duplex Print Color Duplex Print Sheets Copy B&W Simplex Copy Color Simplex Copy B&W Duplex Copy Color Duplex Copy Color Duplex Copy Sheets	Notes Personal Number Email Incoming Fax B&W Simplex Incoming Fax B&W Duplex Fax Sheets	Group name User name
Counters by function and paper format(BET A)	Printer name User name User group Project name Accounting group	Group name User name Full name Print A4 B&W Print A4 Color Copy A4 B&W Copy A4 Color Print A3 B&W Print A3 Color Copy A3 B&W Copy A3 Color	Notes Personal Number Email Incoming Fax A4 B&W Incoming Fax A4 B&W Print A5 B&W Print A5 Color Copy A5 Color Incoming Fax A5 B&W Print B4 B&W Print B4 Color	Group name User name

Name	Filters	Default Columns	Additional Columns	Group by
			Copy B4 B&W	
			Copy B4 Color	
			Incoming Fax B4 B&W	
			Print B5 B&W	
			Print B5 Color	
			Copy B5 B&W	
			Copy B5 Color	
			Incoming Fax	
			B5 B&W	
			Print Ledger	
			B&W Print Ledger	
			Color	
			Copy Ledger	
			B&W	
			Copy Ledger	
			Color	
			Incoming Fax	
			Ledger B&W Print Letter	
			B&W	
			Print Letter	
			Color	
			Copy Letter	
			B&W	
			Copy Letter	
			Color	
			Incoming Fax Letter B&W	
			Print Legal	
			B&W	
			Print Legal	
			Color	
			Copy Legal	
			B&W	
			Copy Legal Color	
			Incoming Fax	
			Legal B&W	
			Print	
			Statement	
			B&W	
			Print	
			Statement	

Name	Filters	Default Columns	Additional Columns	Group by
			Color Copy Statement B&W Copy Statement Color Incoming Fax Statement B&W	
Counters by function paper format and duplex(BET A)	Printer name User name User group Project name Accounting group	Group name User name Full name A4 B&W Simplex A4 Color Simplex A4 B&W Duplex A4 Color Duplex A3 B&W Simplex A3 Color Simplex A3 Color Duplex A3 Color Duplex A4 Sheets A3 Sheets	Notes Personal Number Email Incoming Fax A4 B&W Incoming Fax A4 B&W Print A5 B&W Print A5 Color Copy A5 B&W Copy A5 Color Incoming Fax A5 B&W Print B4 B&W Print B4 Color Copy B4 B&W Copy B4 Color Incoming Fax B4 B&W Print B5 Color Incoming Fax B4 B&W Print B5 Color Copy B5 B&W Copy B5 Color Incoming Fax B5 B&W Print Ledger B&W Print Ledger B&W Print Ledger B&W Copy Ledger B&W	Group name User name

Name	Filters	Default Columns	Additional Columns	Group by
			Incoming Fax Ledger B&W Print Letter B&W Print Letter Color Copy Letter B&W Copy Letter Color Incoming Fax Letter B&W Print Legal B&W Print Legal Color Copy Legal B&W Copy Legal B&W Copy Legal Color Incoming Fax Legal B&W Print Statement B&W Print Statement Color Copy Statement B&W Copy Statement Color Copy Statement Color Incoming Fax Statement B&W	
Daily summary	Printer name User name User group	Date B&W pages Color pages Total pages Scans Total price	Administrator price B&W prints B&W copies Color prints Color copies Single color	Group name

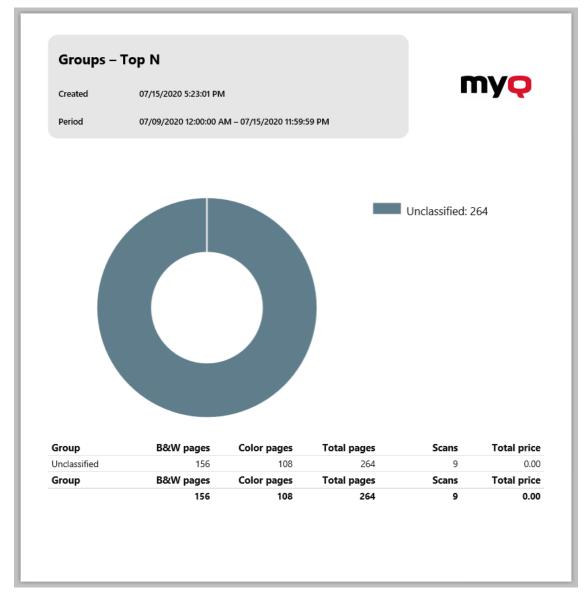
Name	Filters	Default Columns	Additional Columns	Group by
			copy A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Cother paper Ledger paper Ledger paper Letter paper Statement paper Rest of paper formats Fax B&W cost Color cost Color pages (L1) Color cost (L1) Color cost (L1) Color pages (L2) Color cost (L2) Color cost (L2) Color cost (L2) Color cost (L3) Print color pages (L1) Cost color pages (L1) Cost color pages (L1) Print color pages (L1) Print color pages (L2) Cost color pages (L2) Cost color pages (L2) Cost color pages (L2) Print color pages (L2) Cost color pages (L2) Print color pages (L2) Cost color pages (L3) Cost color pages (L3) Simplex Duplex	

Name	Filters	Default Columns	Additional Columns	Group by
Day of the week	Printer name User name User group	Day B&W pages Color pages Total pages Scans Total price	Same as Daily summary + Day number	Group name
Monthly summary	Printer name User name User group	Period (Year - Month) Same as Daily summary B&W pages Color pages Total pages Scans Total price		Group name Month & Year
Τορ Ν	Printer name User name User group	Group name B&W pages Color pages Total pages Scans Total price	Administrator price	
Total summary	Printer name User name User group Accounting group	Full name User name Group name Period (Year & Month) B&W print B&W copies Color print Color copies Total pages Scans Total price	User name summary Group name Period (Year & Month) B&W print B&W copies Color print Color copies Total pages Scans	
User group membership	User group Accounting group Managed group	User name Full name Group name Accounting group Managed group	Personal number Phone Email Notes	

The above reports all have the *Period* parameter, except for the **Top N** report that has the *Period*, *Page counter*, *N*, *Add remaining sum* parameters.

The above reports don't support aggregate columns except for the **Monthly** summary and the **Total summary** reports.

Charts are not available, except for the **Top N** report, where a Pie, Doughnut or Bar chart can be selected with the **Groups** and **Page Counter** values.



## **Printers Reports**

The reports included in the **Printers** category are:

- Counters by function and duplex(BETA)
- Counters by function and paper format(BETA)
- Counters by function paper format and duplex(BETA)
- Daily summary

- Day of the weekMeter reading via SNMP
- Monthly summary
- Top N
- Total summary

Name	Filters	Default Columns	Additional Columns	Group by
Counters by function and duplex(BETA)	Printer name User group Project name Accounting group	Printer Name Serial Number Group name User name Full name Print B&W Simplex Print Color Simplex Print B&W Duplex Print Color Duplex Print Color Duplex Print Sheets Copy B&W Simplex Copy Color Simplex Copy B&W Duplex Copy Color Duplex Copy Color Duplex Copy Color Duplex Copy Sheet	Notes Personal Number Email Incoming Fax B&W Simplex Incoming Fax B&W Duplex Fax Sheets	Printer name User name

Name	Filters	Default Columns	Additional Columns	Group by
Counters by function and paper format(BETA)	Printer name User group Project name Accounting group	Printer name Serial number Group name User name Full name Print A4 B&W Print A4 Color Copy A4 B&W Copy A4 Color Print A3 B&W Print A3 Color Copy A3 B&W Copy A3 Color	Notes Personal Number Email Location IP address Brand Model MAC Incoming Fax A4 B&W Incoming Fax A4 B&W Print A5 Color Copy A5 B&W Print A5 Color Copy A5 B&W Copy A5 Color Incoming Fax A5 B&W Print B4 B&W Print B4 B&W Print B4 B&W Print B4 Color Copy B4 B&W Copy B4 Color Incoming Fax B4 B&W Print B5 B&W Print B5 B&W Print B5 Color Copy B5 B&W Copy B5 Color Incoming Fax B5 B&W Print Ledger B&W	Printer name         User name

Name	Filters	Default Columns	Additional Columns	Group by
			Print Ledger Color Copy Ledger Color Incoming Fax Ledger B&W Print Letter B&W Print Letter Color Copy Letter Color Copy Letter Color Incoming Fax Letter B&W Print Legal B&W Print Legal B&W Print Legal B&W Print Legal Color Copy Legal B&W Copy Legal Color Copy Legal B&W Print Statement B&W Print Statement B&W Print Statement Color Copy Statement B&W Copy Statement Color Incoming Fax Statement Color	

Name	Filters	Default Columns	Additional Columns	Group by
Counters by function paper format and duplex(BETA)	Printer name User group Project name Accounting group	Printer name Serial number Group name User name Full name A4 B&W Simplex A4 Color Simplex A4 B&W Duplex A3 B&W Simplex A3 Color Simplex A3 B&W Duplex A3 Color Duplex A3 Sheets A3 Sheets	Notes Personal Number Email Location IP Address Brand Model MAC A5 B&W Simplex A5 Color Simplex A5 Color Duplex A5 Sheets B4 B&W Duplex B4 Color Simplex B4 Color Simplex B4 Color Simplex B4 Color Simplex B4 Color Simplex B4 Sheets B5 B&W Duplex B4 Sheets B5 B&W Simplex B5 Color Simplex B5 Color Simplex B5 Color Simplex B5 Sheets Folio B&W Simplex Folio Color Simplex Folio Color Simplex Folio Color Duplex Folio Color Duplex Folio Color Duplex	Printer name         User name

Name	Filters	Default Columns	Additional Columns	Group by
			Ledger B&W Simplex Folio Color Simplex Folio B&W Duplex Folio Color Duplex Folio Sheets Ledger Color Simplex Ledger B&W Duplex Ledger Color Duplex Ledger Shee ts Letter Color Simplex Letter B&W Duplex Letter B&W Duplex Letter Color Simplex Letter Color Simplex Letter Sheets Legal Color Simplex Legal B&W Duplex Legal B&W Duplex Legal Sheets Statement Color Simplex Statement B&W Duplex Statement Sheets Statement Color Duplex	

Name	Filters	Default Columns	Additional Columns	Group by
			Other Color Duplex Other Sheets	
Daily summary	Printer name User group	User name Full name Date B&W pages Color pages Total pages Scans Total price	Administrato r price B&W prints B&W copies Color prints Color copies Single color copy A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Folio paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Fax B&W cost Color cost Color pages (L1) Color cost Color pages (L1) Color cost (L1) Color cost (L2) Color cost (L2) Color cost (L3) Print color	Printer name

Name	Filters	Default Columns	Additional Columns	Group by
			pages(L1) Copy color pages (L1) Cost color pages(L1) Print color pages(L2) Copy color pages (L2) Cost color pages(L2) Print color pages(L3) Copy color pages (L3) Cost color pages (L3) Simplex Duplex	
Day of the week	Printer name User name User group	Day B&W pages Color pages Total pages Scans Total price	Same as Daily summary + Day number	Printer name

Name	Filters	Default Columns	Additional Columns	Group by
Meter reading via SNMP	Printer name	Printer name IP address Serial number MAC address Model Location Terminal ID B&W prints B&W copies Color prints Color copies Scans Fax counter	A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Cother paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Start Mono Start Color Finish Mono Finish Color Printer ID Printer Group Finish M Print Finish C Print Finish C Print Finish C Print Finish C Copy Finish Can	
Monthly summary	Printer name User name User group	IP address Serial number MAC address Model Location B&W pages Color pages Total pages Scans Total price	Same as Daily summary	Printer name Month & Year

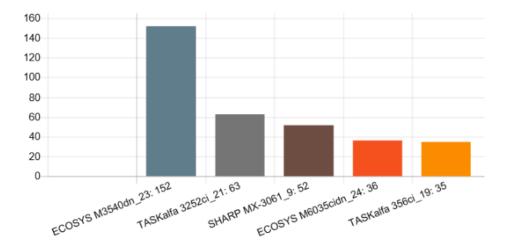
Name	Filters	Default Columns	Additional Columns	Group by
Тор N	Printer name User name User group	Printer name B&W pages Color pages Total pages Scans Total price	Administrato r price Printer ID Printer Group	
Total summary	Printer name User name User group	Printer name User group User name Full name Total pages B&W prints B&W copies Color prints Color copies Scans Total price	Same as Daily summary	Printer name

The above reports all have the *Period* parameter, except for the **Top N** report that has the *Period*, *Page counter*, *N*, *Add remaining sum* parameters.

Aggregate columns are supported in the above reports, except for the **Top N** and the **Monthly summary** reports.

Charts are not available, except for the **Top N** report, where a Pie, Doughnut or Bar chart can be selected with the **Printers** and **Page Counter** values.

# Printers - J N Created 07/16/2020 9:57:11 AM Period 07/10/2020 12:00:00 AM - 07/16/2020 11:59:59 PM



Printer	B&W pages	Color pages	Total pages	Scans	Total price
ECOSYS M3540dn_23	152	0	152	0	0.00
TASKalfa 3252ci_21	7	56	63	0	0.00
SHARP MX-3061_9	41	11	52	5	0.00
ECOSYS M6035cidn_24	17	19	36	0	0.00
TASKalfa 356ci_19	0	35	35	0	0.00
Printer	B&W pages	Color pages	Total pages	Scans	Total price
	217	121	338	5	0.00

## **Print Jobs Reports**

The reports included in the **Print Jobs** category are:

- Daily summary
- Expired and deleted jobs
- Favorite jobs
- Printed jobs summary

Name	Filters	Default Columns	Additional Columns	Group by
Daily summary	User name Job name	Full name Created (date & time) Printed (date & time) Job name Document time	Queue name Personal number Phone Email Notes Total pages B&W pages Color pages	User name
Expired and deleted jobs	User name User group Queue name	Full name User name Job name Created (date & time) Document type Duplex Job size (KB) Total pages B&W pages Color pages	Personal number Phone Email Notes Trees CO2 (gram) Energy (Wh) Energy recycled (Wh)	Queue name
Favorite jobs	User name User group Queue name	Queue name Full name Job name Created (date & time) Job size (KB) B&W pages Color pages Total pages Min Price Max Price	Personal number Phone Email Notes	User name
Printed jobs summary	User name User group Job name	Full name Period Queue name Printed (date & time) Job name Document type	Personal number Phone Email Notes Total pages B&W pages Color pages	User name Month & Year

All the reports use the **Period** parameter.

Charts are not available.

The reports don't support aggregate columns except for the **Expired and deleted jobs** reports, where aggregate columns are available.

## **Projects Reports**

The reports included in the **Projects** category are:

- Counters by function and duplex(BETA)
- Counters by function and paper format(BETA)
- Counters by function paper format and duplex(BETA)
- Daily summary
- Day of the week
- Monthly summary
- Print jobs per project
- Project groups total summary
- Projects per user
- Top N
- User project assignment
- Users per project
- User Session details

Name	Filters	Default Columns	Additional Columns	Group by
Counters by function and duplex(BETA)	Printer name User name User group Project name Accounting group	Project name Project code Group name User name Full name Print B&W Simplex Print Color Simplex Print B&W Duplex Print Color Duplex Print Sheets Copy B&W Simplex Copy Color Simplex Copy Color Duplex Copy Color Duplex Copy Color Duplex Copy Color Duplex Copy Sheets	Notes Personal Number Email Incoming Fax B&W Simplex Incoming Fax B&W Duplex Fax Sheets	Project name User name
Counters by function and paper format(BETA)	Printer name User name User group Project name Accounting group	Project name Project code Group name User name Full name Print A4 B&W Print A4 Color Copy A4 B&W Copy A4 Color Print A3 B&W Print A3 Color Copy A3 B&W Copy A3 Color	Notes Personal Number Email Incoming Fax A4 B&W Incoming Fax A4 B&W Print A5 B&W Print A5 Color Copy A5 B&W Copy A5 Color Incoming Fax A5 B&W Print B4 B&W	Project name User name

Name	Filters	Default Columns	Additional Columns	Group by
			Print B4 Color	
			Copy B4	
			B&W	
			Copy B4	
			Color	
			Incoming Fax B4 B&W	
			Print B5	
			B&W	
			Print B5	
			Color	
			Copy B5 B&W	
			Сору В5	
			Color	
			Incoming	
			Fax B5 B&W	
			Print Ledger B&W	
			Print Ledger	
			Color	
			Copy Ledger	
			B&W	
			Copy Ledger	
			Color Incoming	
			Fax Ledger	
			B&W	
			Print Letter	
			B&W	
			Print Letter Color	
			Copy Letter	
			B&W	
			Copy Letter	
			Color	
			Incoming Fax Letter	
			B&W	
			Print Legal	
			B&W	
			Print Legal	
			Color Copy Logal	
			Copy Legal	

Name	Filters	Default Columns	Additional Columns	Group by
			B&W Copy Legal Color Incoming Fax Legal B&W Print Statement B&W Print Statement Color Copy Statement B&W Copy Statement Color Incoming Fax Statement B&W	

Name	Filters	Default Columns	Additional Columns	Group by
Counters by function paper format and duplex(BETA)	Printer name User group Project name Accounting group	Project name Project code Group name User name Full name A4 B&W Simplex A4 Color Simplex A4 B&W Duplex A3 B&W Simplex A3 Color Simplex A3 B&W Duplex A3 Color Duplex A3 Sheets A3 Sheets	Notes Personal Number Email Incoming Fax A4 B&W Incoming Fax A4 B&W Print A5 B&W Print A5 Color Copy A5 B&W Copy A5 Color Incoming Fax A5 B&W Print B4 Color Copy B4 B&W Print B4 Color Copy B4 B&W Copy B4 Color Incoming Fax B4 B&W Print B5 B&W Print B5 Color Incoming Fax B4 B&W Print B5 Color Copy B5 B&W Print B5 Color Copy B5 B&W Print Ledger B&W Print Ledger B&W	Project name User name

Name	Filters	Default Columns	Additional Columns	Group by
			Color Incoming Fax Ledger B&W Print Letter B&W Print Letter Color Copy Letter B&W Copy Letter Color Incoming Fax Letter B&W Print Legal B&W Print Legal Color Copy Legal B&W Copy Legal B&W Copy Legal Color Incoming Fax Legal B&W Print Statement B&W Print Statement Color Copy Statement Color Copy Statement Color Copy Statement Color Incoming Fax Statement Color Copy Statement Color Copy Statement Color Copy Statement Color	

Name	Filters	Default Columns	Additional Columns	Group by
Daily summary	Project name Printer name User group	Date B&W pages Color pages Total pages Scans Total price	Administrato r price B&W prints B&W copies Color prints Color copies Single color copy A4 paper A3 paper B5 paper B4 paper B5 paper Other paper Ledger paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Fax B&W cost Color cost Color pages (L1) Color cost (L1) Color cost (L1) Color cost (L1) Color cost (L2) Color cost (L3) Print color pages (L1) Cost color pages (L1) Cost color	Project name

Name	Filters	Default Columns	Additional Columns	Group by
			Print color pages(L2) Copy color pages (L2) Cost color pages(L2) Print color pages(L3) Copy color pages (L3) Cost color pages(L3) Simplex Duplex	
Day of the week	Project name Printer name User name User group	Date B&W pages Color pages Total pages Scans Total price	Same as Daily summary + Day number	Project name
Monthly summary	Project name Printer name User name User group	Period (year - month) B&W pages Color pages Total pages Scans Total price	Same as Daily summary	Project name Month & Year
Print jobs per project	Project name Job name User name	Job name Printed (date & time) Document type		Project name

Name	Filters	Default Columns	Additional Columns	Group by
Project groups total summary	Project name	Project name B&W pages Color pages Total pages Scans Total price	Administrato r price Group Phone Email Notes Color cost B&W cost Simplex Duplex A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Ledger paper Ledger paper Legal paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Fax B&W prints B&W copies Color prints Color copies Color pages (L1) Color cost (L1) Color cost (L2) Color cost (L2) Color cost (L3) Color cost (L3)	Project name

Name	Filters	Default Columns	Additional Columns	Group by
Projects per user	Project name Printer name User name User group	Full name Personal number Project name B&W pages Color pages Total pages Scans Total price	Same as Daily summary	User name
Τορ Ν	Project name Printer name User name User group	Project name B&W pages Color pages Total pages Scans Total price	Administrato r price	
User project assignment	Project name Printer name User name User group	Full name Personal number Project name B&W pages Color pages Total pages Scans Total price	Personal number Phone Email Notes	Project name

Name	Filters	Default Columns	Additional Columns	Group by
Users per project	Project name User name User group	User name Full name Project name	Administrato r price Group Phone Email Notes Color cost B&W cost Simplex Duplex A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Ledger paper Ledger paper Legal paper Ledger paper Legal paper Letter paper Statement paper Rest of paper formats Fax B&W prints B&W copies Color prints Color copies Color pages (L1) Color cost (L1) Color cost (L2) Color cost (L2) Color cost (L3) Color cost (L3)	User name

Name	Filters	Default Columns	Additional Columns	Group by
User Session details	Project name User name Accounting group Printer name	Project Code Project Name Date Job Name User name B&W Print B&W Copy Color Print Color Copy Simplex Duplex B&W Pages Color Pages B&W Cost Color Cost Total Cost		Project name

The above reports all have the *Period* parameter, except for the **Top N** report that has the *Period*, *Page counter*, *N*, *Add remaining sum* parameters.

Aggregate columns are supported in the above reports, except for the **Print jobs per project**, **Top N** and the **User project assignment** reports.

Charts are not available, except for the **Top N** report where a Pie, Doughnut or Bar chart can be selected with the **Page Counter** values.

#### **Users Reports**

The reports included in the **Users** category are:

- Counters by function and duplex(BETA)
- Counters by function and paper format(BETA)
- Counters by function paper format and duplex(BETA)
- Daily summary
- Day of the week
- Monthly summary
- Session details
- Top N
- Total summary
- User Rights

Parameters, filters and columns available:

Name	Filters	Default Columns	Additional Columns	Group by
Counters by function and duplex(BETA)	Printer name User name User group Project name Accounting group	Group name User name Full name Printer name Serial Number Print B&W Simplex Print Color Simplex Print B&W Duplex Print Color Duplex Print Sheets Copy B&W Simplex Copy Color Simplex Copy Color Duplex Copy Color Duplex Copy Color Duplex Copy Color Duplex Copy Sheets	Notes Personal Number Email Location IP Address Brand Model Mac Incoming Fax B&W Simplex Incoming Fax B&W Duplex Fax Sheets	User name Printer name
Counters by function and paper format(BETA)	Printer name User name User group Project name Accounting group	Group name User name Full name Printer name Serial Number Print A4 B&W Print A4 Color Copy A4 B&W Copy A4 Color Print A3 B&W Print A3 Color Copy A3 B&W Copy A3 Color	Notes Personal Number Email Location IP Address Brand Model Mac Incoming Fax A4 B&W Incoming Fax A4 B&W Print A5 B&W Print A5 Color Copy A5 B&W Copy A5	User name Printer name

Name	Filters	Default Columns	Additional Columns	Group by
			Print Legal B&W Print Legal Color Copy Legal B&W Copy Legal Color Incoming Fax Legal B&W Print Statement B&W Print Statement Color Copy Statement B&W Copy Statement Color Incoming Fax Statement B&W	

Name	Filters	Default Columns	Additional Columns	Group by
Counters by function paper format and duplex(BETA)	Printer name User group Project name Accounting group	Group name User name Full name Printer name Serial Number A4 B&W Simplex A4 Color Simplex A4 Color Duplex A3 B&W Simplex A3 Color Simplex A3 B&W Duplex A3 Color Duplex A4 Sheets A3 Sheets	Notes Personal Number Email Location IP Address Brand Model Mac A5 B&W Simplex A5 Color Simplex A5 Color Duplex A5 Sheets B4 B&W Duplex B4 Color Simplex B4 Color Simplex B4 Color Simplex B4 Color Simplex B4 Color Simplex B4 Sheets B5 B&W Simplex B5 Color Simplex B5 Color Simplex B5 Sheets B5 B&W Simplex B5 Color Simplex B5 Color Simplex B5 Color Simplex B5 Sheets Folio B&W Simplex Folio Color Simplex Folio Color Duplex Folio Color Duplex Folio Color Duplex	User name Printer name

Name	Filters	Default Columns	Additional Columns	Group by
			Ledger B&W Simplex Folio Color Simplex Folio B&W Duplex Folio Color Duplex Folio Sheets Ledger Color Simplex Ledger B&W Duplex Ledger Color Duplex Ledger Shee ts Letter Color Simplex Letter B&W Duplex Letter B&W Duplex Letter Color Simplex Letter Color Simplex Letter Sheets Legal Color Simplex Legal B&W Duplex Legal B&W Duplex Legal Sheets Statement Color Simplex Statement B&W Duplex Statement Sheets Statement Color Duplex	

Name	Filters	Default Columns	Additional Columns	Group by
			Other Color Duplex Other Sheets	
Daily summary	Printer name User group	Full name Date B&W pages Color pages Total pages Scans Total price	Administrato r price B&W cost Color cost Personal number Phone Email Notes B&W prints B&W copies Color prints Color copies Single color copy A4 paper A3 paper A5 paper B4 paper B5 paper Other paper Edger paper Ledger paper Ledger paper Ledger paper Ledger paper Statement paper Statement paper Rest of paper formats Fax B&W cost Color cost Color cost Color cost Color pages (L1) Color cost (L1) Color pages (L2)	User name

Name	Filters	Default Columns	Additional Columns	Group by
			Color cost (L2) Color pages (L3) Color cost (L3) Print color pages(L1) Copy color pages (L1) Cost color pages(L2) Copy color pages (L2) Cost color pages (L2) Cost color pages (L2) Print color pages (L2) Print color pages (L3) Copy color pages (L3) Cost color pages (L3) Cost color pages (L3) Simplex Duplex	
Day of the week	Printer name User name User group	Full name Day B&W pages Color pages Total pages Scans Total price	Same as Daily summary + Day number	User name
Monthly summary	Printer name User name User group	Full name Period (year- month) B&W pages Color pages Total pages Scans Total price	Same as Daily summary	User name Month & Year

Name	Filters	Default Columns	Additional Columns	Group by
Session details	Printer name User name User group	User group Full name Printer name Job name Date Total pages Scans	Same as Daily summary except for Administrato r price	User name
Τορ Ν	Printer name User name User group	User name Full name B&W pages Color pages Total pages Scans Total price		

Name	Filters	Default Columns	Additional Columns	Group by
Total summary	Printer name User name User group	User name Full name B&W prints B&W copies Color prints Color copies Total pages Scans Total price	Administrato r price Single color copy Personal number Phone Email Notes B&W pages Color pages A4 paper A3 paper A3 paper B4 paper B5 paper Other paper Edger paper Ledger paper Legal paper Legal paper Letter paper Statement paper Rest of paper formats Simplex	User name
User Rights	User Access Rights	User name Full name Assign access rights	Aliases Email Personal number Phone	User name

The above reports all have the *Period* parameter, and they don't support aggregate columns.

Charts are not available, except for the **Top N** report where a Pie, Doughnut or Bar chart can be selected with the **Users** and **Page Counter** values.

## 14.1.3 Creating new aggregate columns

For some types of reports, you can create any number of custom aggregate (summary) columns. An aggregate column can display either the sum or the average of a selection of any number of other columns available for the type.

To create a new aggregate column for a report:

- 1. Go to **MyQ**, **Reports**. On the list of reports on the right side, select the report and click **Edit** on the ribbon (or right-click, edit). The report properties panel opens on a new window.
- 2. Go to the **Design** tab on the properties panel.
- 3. In the **Table** section, click **+Add**, and select **+Add aggregated column** from the list. The properties panel of the new column opens.

General Design	<ul> <li>Save</li> </ul>	🗟 Previe	N		
Options					
		Portrait	~		
Show filters in	the final ( report:				
Filters and param	eters				
User:	👷 All us	ers		~	
Accounting Group:				~	
Printer:	🔁 All pri	inters		~	
Period: *	Last 3 mo	onths		<b>⇔</b> →	
	-		a range with the te. Date format:	e format	
Fields marked by * are mar	mm/dd/yyy ndatory.	ý			
Table	+ Add	. 8	×   ↓ 1		
Column	V 🕀 Ad	ld column		Aggregat	
Group	⊖ Ad	ld aggrega	ted column	No	
Period	Auto	Auto	None	No	
B&W pages	Auto	Auto	Sum	No	
Color pages	Auto	Auto	Sum	No	
Total	Auto	Auto	Sum	No	
Scans	Auto	Auto	Sum	No	

Total price

Auto

Auto

Sum

No

4. In the panel, set the properties, select the **Aggregate operation** you want to use (*Sum* or *Average*), and click **Save**. The new column is listed with the other table columns, and you can double-click on it to edit it.

Add aggregated column	×
Column: * Width:	
Leave empty for an automatic width	
Alignment: * Auto	~
Summary: * None	~
Columns: *	~
Aggregate operation: * Sum	~
Save Cancel	
Fields marked by * are mandatory.	

#### Supported types of reports for aggregate columns

The aggregate (summary) columns can be created for the following types of reports:

- From the **Groups** category: Monthly summary, Total summary
- From the **Print jobs** category: Expired and deleted jobs
- From the **Printers** category: Daily summary, Day of the week, Meter reading via SNMP, Total summary
- From the **Projects** category: Daily summary, Day of the week, Monthly summary, Project groups total summary, Projects per user, Users per project.

## 14.2 Reporting sources

Accounting in MyQ depends on the MyQ server version, the MyQ embedded terminal version and the printing device. MyQ 8.0+ currently uses the user-session architecture. The values in every report are based on user sessions (except for the **Meter reading via SNMP** printers report, described below).

- Counters are calculated in the following way:
  - B&W pages = B&W prints + B&W copies + Fax
  - Color pages = Color prints + Color copies + Single color copy
  - Total Pages = B&W pages + Color pages
  - Total prints = B&W prints + Color prints
  - Total copies = B&W copies + Color copies
- Price related columns include discounts.
- Any printers monitored via MyQ Desktop Client are included in the reports.
- Any non-MyQ users activity (\*unauthenticated) is included in the reports.
- MyQ does not track deleted printers. If a deleted printer is later added and activated in MyQ, the reports will not include any activity during the time the device was deleted.

- If a printer is deactivated but not deleted, the reports include information about the period it was inactive only after it is reactivated. In that case, after the reactivation, all the activity is accounted to users not authenticated in a single session. The reports cannot include printers' data while they are deactivated.
- When an embedded terminal is installed on the printing device, accounting is also done for any direct/tandem print queues of the device.
- When an embedded terminal is not installed or a device is used with a MyQ Hardware terminal, accounting is done via SNMP by the MyQ Print Server (depends on provided data via SNMP from the device).

# 14.2.1 Values calculation in the Meter reading via SNMP printers report

The values in this report are based on counters read directly from the printers.

- Any printers monitored via MyQ Desktop Client are **not** included in the reports.
- The highest and lowest values are compared for a selected period and printer/ group of printers.
- The total value displayed in the report is the summary of all the subtotal values, without *Pages printed* while the device was deactivated.

## 14.3 Report values description

Description of values in the reports' default and additional columns and how they are accounted.

These values are accounted as page counts in the following way: 2 clicks for the A3/ Ledger page format and 1 click for the rest (A4 etc..); in case of Duplex, it is 4 clicks for the A3 / Ledger format and 2 clicks for the rest (A4 etc.). L formats are coverage counters.

- B&W prints
- B&W copies
- Color prints
- Color copies
- Single color copy
- Total prints
- Total copies
- Fax
- Color pages (L1)
- Color cost (L1)
- Color pages (L2)
- Color cost (L2)
- Color pages (L3)
- Color cost (L3)
- Print color pages (L1)
- Copy color pages (L1)

These values are accounted as paper sheets in the following way : 1x A3 / 1x A4 etc.

- A4 paper
- A3 paper
- A5 paper
- B4 paper
- B5 paper
- Other paper
- Folio paper
- Ledger paper
- Legal paper
- Letter paper
- Statement paper
- Rest of the paper formats

These values are accounted as paper sheets as well, however, when a printing device is used without an installed Embedded terminal, this counter is specified via SNMP and depends on the counter used from the printing device.

- Simplex
- Duplex

A job printed in 1x A3 monochrome sheet, on both sides in duplex mode, on a device where an Embedded terminal is installed, is accounted in MyQ as 1x A3 paper + 4x print monochrome and 1x duplex. In the MyQ log it will look like this:

*PM=4, A3=1, Duplex=1* 

## 14.4 Creating and editing reports

You can create a new report in a few steps:

1. At the top-right corner of the **Reports** main tab, click **+Add**, and then click **New report**. The New report dialog box appears.



2. In the box, select the type of the new report and the folder to place it, and then click **OK**. The editing panel of the new report opens. On the panel, edit and save the report.

New report			×
	Type: *	Daily summary	) î
	Folder:	My reports 💌	)
		V OK Cancel	
Fields marked by *	are mandato	pry.	

### 14.4.1 Editing a report

 On the General tab of the report's editing tab, you can change the report's Name, add a Description, select Sharing rights, meaning the users or groups who will have the rights to Run the report and those who will have the rights to Edit the report. You can also click Schedule to set its scheduled run. Once done, click Design to open the Design tab of the report.

Reports 🕨 🕒 Daily summary
General Design   🗸 Save 🖹 Preview
Only you can see this report.
▼ General
Name: * Groups – Daily summary
Description:
▼ Sharing
Run: 🤗 All users 💌
Edit: 🛛 Administrator 🔹
▼ Scheduled run
This report is not scheduled.
Schedule
Fields marked by * are mandatory.

2. On the **Design** tab, you can set the report's layout, select the items (Users, Printers, etc.) to be included in the report, add or remove columns and change their order.

#### Options

• Orientation: Select either the Portrait, or the Landscape orientation.

Reports 🕨 🕒 Daily summary
General Design 🗸 Save 🔯 Preview
Only you can see this report.
Options
Orientation: Portrait

• **Show filters in the final report**: Mark the checkbox if you want filters to be visible in the final report.

#### **Filters and parameters**

Available filters and parameters differ depending on the report type. These are the main parameters available for most of the standard reports types:

Reports 🕨 🕒 Dai	ly summary						
General Design	✓ Save 🖹 Preview						
🖯 Only you can see	Only you can see this report.						
Options							
Orientation:	Portrait 💌						
Show filters in the final report:							
Filters and parame	eters						
User:	R All users						
Accounting Group:							
Printer:	All printers						
Period: *	Last 7 days 🗮 💌						
	Select a period or enter a range with the format starting dateending date. Date format: mm/dd/yyyy						
Fields marked by * are m	andatory.						

- **User**: Select the users to be included in the report. If you select the **Me** option and share this report with all users, each user can only see just the data that concern themselves; this way you can make personalized reports for each user.
- **Accounting Group**: Select the accounting groups of users to be included in the report.
- **Printer**: Select the printers to be included in the report.
- **Period**: Select the time period to be covered by the report.

#### Table

Here you can enable and disable the table option.

Table				
🕂 Add 🗸 🛛 🧷	↑ ↓	×		
Column	Width	Align	Summary	Aggreg
Group	Auto	Left	None	No
Date	Auto	Auto	None	No
B&W pages	Auto	Auto	Sum	No
Color pages	Auto	Auto	Sum	No
Total	Auto	Auto	Sum	No
Scans	Auto	Auto	Sum	No
Total price	Auto	Auto	Sum	No
C				F.

You can also add and remove columns to the table, edit them and change their order. For each column, you can change the width, alignment and the type of summary that will be shown on the final (bottom) row (Sum, Average or None).

To add a new column, click **+Add**. To open the editing options of an existing column, double-click it (or select it, and then click **Edit**). To remove a column, select it and click **X**. To move a column up or down the order, select it, and then use the up/down arrows.

Period	B&W pages	Color Pages	Total	Scans	Total price
2017-3	5,621	9,189	14,810	5,506	\$5,440.000
2017-4	1,211	569	1,780	1,234	\$7,072.000
Period	B&W pages	Color Pages	Total	Scans	Total price
	6,832	9,758	16,590	6,740	\$12,512.000

Some reports do not include the option to use tables and their data can be displayed only in the chart form.

#### Chart

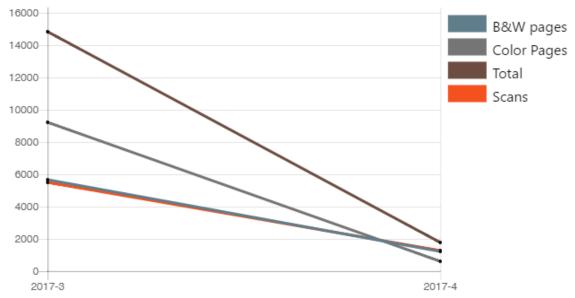
Here you can enable and disable the chart option.

General Design 🗸 🗸 Save 🗟 Preview
Only you can see this report.
•
Chart 💽
Type: Bar chart

You can also select from the **Bar, Pie** and **Doughnut** chart types. Furthermore, you can add and remove data types to be shown on the chart and select colors for each data type (depending on the report type).

To add a data type, click **+Add**. To open editing options of a data type, double-click it (or select it, and then click **Edit**). To remove a data type, select it and click **X**. To move a data type up or down the order, select it, and then use the up/down arrows.

Some reports do not include the option to use charts and their data can be displayed only in the table form.



Designing your own reports can be a bit tricky, since it always depends on many factors - amount of data included (columns), length of column names and values, report orientation etc. To get the best result, you can click **Preview** anytime during the report's creation to check what the new design will look like. Only after you are satisfied with the layout, click **Save** to save the report.



## 14.5 Generating reports

#### To preview a report

Select the report and click **Preview** (or right-click it and click **Preview** on its shortcut menu). The report is shown in HTML format and the number of included data is limited. You can switch between Graphical view and Grid view.

#### To run a report

Select the report and click **Run**. (Or right-click it and click **Run** on its shortcut menu). The report runs in the specified format (*PDF, CSV, XML, XLSX* or *ODS*) with no data limitation.



#### To export the displayed report

After the report is generated, click on the report's format link in the file column to download it.

Home C Reports			
🕒 Reports	C All reports		
Add 🕶   🗟 Preview 🗋 Run 💌 🖉   🗡	Status Run at 💌 Report	Files	Run by
▼ 🗁 All reports	Today		
My reports	✓ 02/08/2022 3:15:4 My daily summary	DF PDF	Administrator
Shared reports	✓ 02/08/2022 2:35:0 My monthly summary	☑ XLSX	Administrator
	✓ 02/08/2022 2:35:0 My sessions	ិcsv	Administrator
	✓ 02/08/2022 2:34:5 My daily summary	₿ PDF	Administrator

There is a fixed limit of records of the reports that are generated on the **Reports** main tab of the MyQ Web Interface. It can be set in the **Limit results to:** text box on the **Reports** settings tab (**MyQ, Settings, Reports**). It is set to *1000* by default. This only applies to the reports run on the MyQ Web Interface; scheduled reports are always complete.

×

## 15 Connection to BI tools

Starting from version 8.2 (patch 16), MyQ Print Server exposes data to be analyzed with external BI tools (Business Intelligence tools).

The below information refers to the setup and use of Power BI by Microsoft, along with a MyQ setup.

For further information about Power BI, visit: https://docs.microsoft.com/en-us/power-bi/fundamentals/desktop-getting-started

## 15.1 Embedded Database Connection Configuration

Power BI can access the MyQ Embedded Database via ODBC. In order to create an ODBC data source:

- 1. Download and install the latest ODBC driver for Firebird from: https://firebirdsql.org/en/odbc-driver/
- 2. Once installed, open the **ODBC Data Sources** application from the Windows Apps menu.
- 3. Go to the **System DSN** tab and click **Add**.

CODE I	Jata Source A	unninstrat	01 (04-01	9				~
User DSN	System DSN	File DSN	Drivers	Tracing	Connection Pooling	About		
<u>S</u> ystem D	ata Sources:							
Name		Platform	Driver				Add	_
1							<u>R</u> emo	ve
							<u>C</u> onfigu	ıre
					tion about how to co this computer, includ			a provider.
					OK Ca	ncel	Apply	Help

4. In the Create New Data Source window, select *Firebird/InterBase(r) driver* and click **Finish**.

S ODBC I	Data Source Administrator (6	4-bit)		×
User DSN				×
<u>S</u> ystem D Name		Select a driver for which you want	to set up a data sou	rce.
1 1	<b></b>	Name	Version	Cor
		Firebird./InterBase(r) driver ODBC Driver 11 for SQL Server SQL Server	2.00.05.156 2014.120.5000.00 10.00.17763.01	Fire Mic Mic
		<		>
				vider.
		< Back F	ìnish Can	cel
		OK Car	ncel Apply	Help

5. In the Firebird ODBC Setup tab, enter the connection details:

Firebir	d ODBC Setup		x
Data Source Name (DSN)			
MyQ Print Server DB			
Description			
Database			
C:\ProgramData\MyQ\MYQ.FDB			Browse
Client			
C:\Program Files\MyQ\Firebird\fbclient.c			Browse
Database Account Passv	vord	Role	
DBADMIN			
Character Set			
NONE	Services	Test	connection
Options Transaction read (default write) nowait (default wait) Lock Timeout Dialect  3 1 V safe thread	Extended ident Quoted ident sensitive ident autoquoted Set null field St	ifiers ntifier identifier	\$
OK	Cancel		Help

- a. Data Source Name (DSN): Add a name as an identifier for the connection
- b. Database: Add the path to your database file (C: \ProgramData\MyQ\MYQ.FDB by default)
- c. Client: Add the path to the Firebird library client used for the connection. It is recommenced to use the MyQ Print Server client, found in C:\Program Files\MyQ\Firebird\fbclient.dll by default
- d. **Database Account**: Add the Database Account user name. The default one is *SYSDBA*, but it is highly recommended not to use the default database account, but enable and use the **database read-only account** available in the External Reports settings tab.

- e. **Password**: Add the Database Account password. In case you are using the default database account (not recommended) and you haven't changed the password in MyQ Easy Config, the default one is *masterkey*.
- f. The rest of the fields can be left unchanged. Click **Test Connection** and if successful, click **OK**.

## 15.2 Creating Reports

Reports can be created according to each customer's specific requirements. It is possible to create the reports manually, or use the Power BI template created by MyQ in order to generate reports quickly.

- Manual reports creation
- Reports creation via template import
- Report examples
- Database Views description

## 15.2.1 Manual Reports Creation

To manually create the reports, open Power BI and:

- 1. Establish the connection to your database:
  - a. Click Get data, More.... In the new window, select Other, click on ODBC on the list, and click Connect. In the new prompt, select the Data source name (DSN) you created in the ODBC Data Sources app and click OK.

Get Data		×
Search	Other	
All	() Web	~
File	SharePoint list	
Database	OData Feed	
Power Platform	Active Directory	
Azure	Microsoft Exchange	
Online Services	+ Hadoop File (HDFS)	
Other	Spark	
	🥬 Hive LLAP (Beta)	
	💠 R script	
	Python script	
	♦ ODBC	
	Import data from ODBC.	
	🛠 Cognite Data Fusion (Beta)	
	🔥 FHIR	
	(资 Information Grid (Beta)	$\sim$
Certified Connectors	Connect	Cancel
From ODBC		
Data source name (DSN)		
MyQ Print Server DB	*	
Advanced options		
		OK Cancel

2. In the Navigator window, select all the options with the **DIM\_** and **FACT\_** prefixes and click **Load** (see Database Views description).

#### Navigator

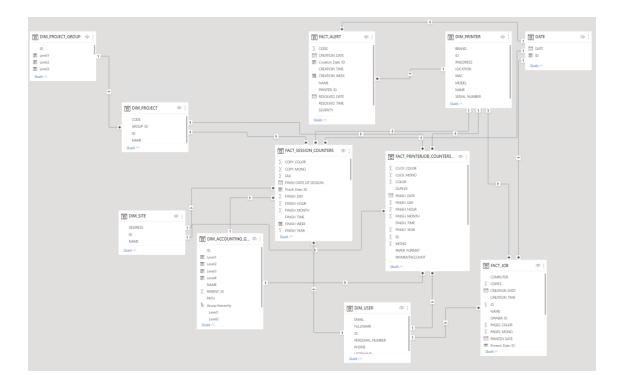
	La I	ID	FINISH_DATE	FINISH_TIME	FINISH_YEAR	FINISH_MONTH	FINISH
🔋 📴 ODBC (dsn=MyQ Master Embedded DB) [78	3]	186353	10/20/2016	2:56:29 PM	2016	10	
✓ □ DIM ACCOUNTING GROUP		186354	10/20/2016	2:56:30 PM	2016	10	
		186355	10/20/2016	2:56:29 PM	2016	10	
		186356	10/20/2016		2016	10	
		186357	10/20/2016		2016	10	
DIM_PROJECT		186358	10/20/2016		2016	10	
DIM_PROJECT_GROUP		186359	10/20/2016		2016		
🔽 🛅 DIM_SITE		186360	10/20/2016		2016		
DIM_USER		186361	10/20/2016		2016	10	
✓ ☐ FACT ALERT		186362	10/20/2016		2016	10	
FACT_JOB		186363	10/20/2016		2016	10	
		186365	10/20/2016		2016		
		186366	10/20/2016		2010		
USERSESSION_TOTALPAGES		186367	10/20/2016				
ACCESSENTITY							
ACE		🚺 The dat	a in the preview h	as been truncated	due to size limits.		
🗆 🎫 Alert							
🗆 🌐 ALIAS							
	$\sim$						
		<					>

- 3. Power BI loads the data, however the relationships between them must be created manually, since Power BI cannot extract them:
  - a. Go to the Modeling menu and click on Manage relationships.
  - b. Click **New...** and create the relationships between the views, selecting the IDs in each of them. Click **OK** once done.

 $\Box \times$ 

File	· · · ·	lome	Insert	Modeling \	/iew Help						
Mar relatio	nage onships	New measure	Quick Ne measure colu Calculations	ew New Cl imn table de	hange tection e refresh What if	Manage roles Secu	as	Q&A Language Lingu g&A Q&A	istic		
	Ν	/Janag	je relati	onships						×	
⊞ €	Active Create relationship Select tables and columns that are related.							×			
			FACT.	_SESSION_COUNT		SH_YEAR	FINISH_M	DNTH FINISH_DAY	FINISH_HOUR	USER_ID	
			<							>	
			DIM_	USER			*				
			ID	USERNAME	FULLNAME	EMAIL	PHONE	PERSONAL_NUMBER			
			-2	*admin	Administrator Unauthenticated user	null null	null	null			
		New		*fax	Fax	null	null	null			
	Cardinality Cross filter direction										
			One	to one (1:1)			▼ Both			-	
				ike this relationshi			🗆 Арр	ly security filter in both o	directions OK	Cancel	]

4. Your model has been created and you can add visualizations to the report.



## 15.2.2 Reports creation via template import

An ODBC DSN must be configured before using the template.

• ODBC template



To import the template provided by MyQ , open Power BI and:

1. Open the **File** menu, select **Import**, and click on **Power BI template**. Find and open the correct template according to your database.

Import
Power BI template
Power BI visual from file
Power BI visual from AppSource
Power Query, Power Pivot, Power View

- 2. Establish the connection to your database:
  - a. Add the **Data source name (DSN)** you created in the ODBC Data Sources app and click **Load**.

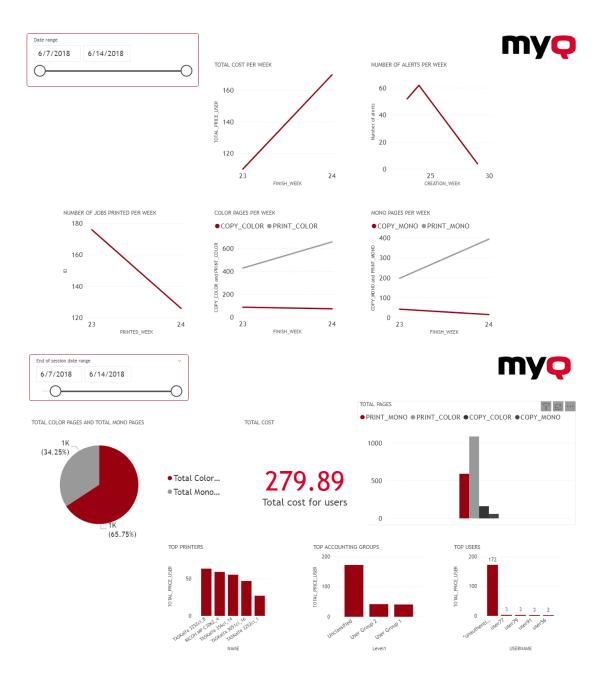
MyQ Print Server Reports ODBC	×
Data Source Name (DSN)(())	
The Data Source Name entered in the ODBC Data Source Administrator	
	Load * Cancel

3. Power BI imports the data. The reports can be edited; the changes are saved in a different file so the template can be reused.

#### 15.2.3 Report examples

The examples below were generated using the MyQ template.

Print date range 6/7/2018 6/14/201	8			myq
SAVINGS		PRINTED JOBS IN COLOR	PRINTED JOBS IN B&W	
<b>1984</b> Total pages		247	55	
	TOP JOBS BY TOTAL PAGES		TOP JOBS BY SIZE 0.8bn 0.6bn 0.4bn 0.2bn	TOP USERS BY NUMBER OF JOBS PRINTED 30
	Test A4 060 11205	3 718 57758	0.0bn Test page A4 3 06071 NAME	0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



### 15.2.4 Database Views description

There are two groups of views; **dimensions** and **facts**. The fact views contain measures, numeric data which can be used in calculations for reports. The dimension views contain descriptive information used for the measures in the facts. Dimension views have the **dim\_** prefix and fact views have the **fact\_** prefix.

The IDs in the views are internal MyQ IDs and can be used to establish relationships between views.

**Site Dimension (dim\_ Site)** - Information about the site where the sessions were registered.

Field Name	Description
ID	Site ID
Name	Site name
Address	Site URL

#### Printer Dimension (dim\_Printer) - Information about the printer

Field Name	Description
ID	Printer ID
Name	Printer name
IPAddress	Printer IP address
MAC	Printer MAC address
Brand	Printer brand
Model	Printer model
Location	Printer location
Serial_Number	Printer serial number

#### User Dimension (dim\_User) - Information about the user

Field Name	Description
ID	User ID
Username	MyQ username

Field Name	Description
Fullname	User's name and surname
Email	User's email
Phone	User's phone number
Personal_number	User's MyQ personal number

# Accounting Group Dimension (dim\_ Accounting\_ Group) - Information about user groups

Field Name	Description
ID	Group ID
Name	Group name
Parent_ID	The parent group ID. Null if the group has no parent group.
Path	The path of the group, formed by the ID of the ancestor groups separated by the character " ". This can be used to build the hierarchy of user groups.

# Project Dimension (dim\_Project) - Information about projects

Field Name	Description
ID	Project ID
Name	Project name
Code	Project code
Group_ID	ID of the project group containing the project

Field Name	Description
ID	Project group ID
Name	Project group name
Parent_ID	The parent group ID. Null if the group has no parent group.
Path	The path of the group, formed by the ID of the ancestor groups separated by the character " ". This can be used to build the hierarchy of project groups.

#### **Project Group Dimension (dim\_Project\_Group)** - Information about project groups

Job Fact (fact\_job) - Information about print jobs

Field Name	Description
ID	Job ID
Session_ID	Session ID
Name	Job name
Owner_ID	Job owner ID
Printer_ID	Printer ID where the job was printed. Null if not printed
Computer	Computer name or address where the job was sent from
Size_in_bytes	Job size in bytes
Pages_mono	Number of pages in black and white
Pages_color	Number of pages in color

Field Name	Description
Copies	Number of copies
State	Job state
Printed_date	Date when the job was printed
Printed_time	Time when the job was printed
Creation_date	Date when the job was created
Creation_time	Time when the job was created

# Session Counter Fact (fact\_Session\_Counters) - Information about user sessions

Field Name	Description
ID	Job ID
Finish_date	Date when the session was closed
Finish_time	Time when the session was closed
Finish_year	Year when the session was closed
Finish_month	Month when the session was closed
Finish_day	Day when the session was closed
Finish_hour	Hour when the session was closed
User_ID	ID of the user who created the session
Printer_ID	Printer ID
Site_ID	Site ID

Field Name	Description		
Project_ID	Project ID		
User_group_ID	Accounting group ID		
Total_price_user	Total price of the session for regular users		
Total_price_admin	Total price of the session for users with admin rights		
Total_pages	Total pages of the session		
Print_mono	Number of pages printed in black and white		
Print_color	Number of pages printed in color		
Copy_mono	Number of pages copied in black and white		
Copy_color	Number of pages copied in color		
Copies	Number of copies		
Fax	Number of pages printed due to fax, in black and white		
Scan	Number of scanned pages		
PaperA4	Number of A4 sheets used		
PaperA3	Number of A3 sheets used		
PaperA5	Number of A5 sheets used		
PaperB4	Number of B4 sheets used		
PaperB5	Number of B5 sheets used		

Field Name	Description
PaperFolio	Number of Folio sheets used
PaperLedger	Number of Ledger sheets used
PaperLegal	Number of Legal sheets used
PaperLetter	Number of Letter sheets used
PaperStatement	Number of Statement sheets used
PaperOther	Number of sheets with other paper formats used

**Printer job counters (fact\_PRINTERJOB\_COUNTERS\_V2)** - Information about printer job counters

Field Name	Description
ID	Session ID
Finish_date	Date when the session was closed
Finish_time	Time when the session was closed
Finish_year	Year when the session was closed
Finish_month	Month when the session was closed
Finish_day	Day when the session was closed
Finish_hour	Hour of the day when the session was closed
User_ID	ID of the user who created the session
Printer_ID	ID of the printer

Field Name	Description
Site_ID	ID of the site
Project_ID	ID of the project used for the session
User_group_ID	ID of the accounting group
Туре	Type of the operation (print, copy, scan, fax)
Paper_format	Paper format
Price	Price for the job
Duplex	Yes if the job was printed in duplex mode No if the job was not printed in duplex mode
Μοπο	Number of pages printed in black and white
Color	Number of pages printed in color
Single_color	Number of pages printed in single color
Click_mono	Number of printed mono images
Click_color	Number of printed color images
Sheets	Number of used papers

# Alert Fact (fact\_Alert) - Information about printer alerts

Field Name	Description		
Printer_ID	Printer ID where the alert was generated from		

Field Name	Description
Severity	Alert severity
Training	Level of training required to handle the alert
Code	Alert code
Creation_Date	Date when the alert was generated
Creation_Time	Time when the alert was generated
Resolved_Date	Date when the alert was resolved
Resolved_Time	Time when the alert was resolved

There is a limitation that even if you are using a Job Privacy license, the data in the database are not changed by this feature and are still readable.

# 16 Scanning and OCR

The MyQ system is able to automatically send scanned documents to a specified folder or email belonging to the scanning user, with the **Scan to Me** feature.

With the feature enabled, MyQ serves as an email server — it receives a scanned job from printing devices via the SMTP protocol, detects the device where the job is sent from, finds the user that is currently logged on the device and sends the job to their folder or email (depends on the user's settings).

The first section of this topic shows you how to set up the **Scan to Me** feature on the MyQ server and how to use it. The following two sections present two advanced scanning options in MyQ: limiting the size of emails with scans and scanning to OCR. In the last section, you can view the table of all MyQ email commands.

**Scan to Me** is also one of the essential features of the MyQ Embedded terminals. Apart from it, the embedded terminals offer a large number of advanced destinations such as **Cloud** and **FTP servers**.

# 16.1 Scan to Me

First, you need to set up the feature on the MyQ server and on the printing device to enable the MyQ users to use all of the scanning options. After that, you need to provide the users with an email addresses, where they can direct the scanned documents to.

E MYQ & Home	Settings: Scanning & OCR	~	0
% Settings	⊠ Scanning & OCR		
Price lists     Jobs	▶ General		
Scanning & OCR Code Books	<ul> <li>Default settings of an email with scan</li> <li>Parameters for panel scan to email</li> </ul>		
🕑 Reports	► OCR		
<ul> <li>Systems</li> <li>Independent of the system</li> <li>System Management</li> </ul>	Fields marked by * are mandatory.		

The correct time and date must be set on the printing device to avoid issues with correct functionality.

# 16.1.1 Setting up the feature

To set up Scan to Me:

- Enable and setup scanning on the MyQ server
- Set SMTP on the printing device
- Set the destinations for the MyQ users on the MyQ server

#### Enable and setup scanning on the MyQ server

Go to the Scanning & OCR settings tab, under General and Enable scanning.

You can also change the subject and message of the email with the scanned document there. As the sender of the document, you can select either the email of the logged user or the default sender email set on the **Network** settings tab, under **Outgoing SMTP server**.

#### Set SMTP on the printing device

The scanning function requires enabling the SMTP protocol, setting the SMTP server address and entering a sender email on the printing device web interface. For information about how to enter the printing device web interface and find the particular settings, see the printing device manual.

To enable the scanning function, take the following steps on the printing device web interface:

- Enable SMTP protocol.
- Enter the MyQ server IP address or hostname.
- Ensure that the SMTP port is the same as the SMTP port in the **Network** settings tab, under MyQ SMTP server. The default port in MyQ is *25*.
- Enter sender email address. The address value is arbitrary.

#### Set the destinations for the MyQ users on the MyQ server

On the properties panel of each individual MyQ user (see Editing user accounts), you can set the destinations using three options: Sending scans to the user's primary email, Sending scans to other predefined emails, Storing scans to the user's scan folder.

To provide a user with these options, set the appropriate fields on their properties panel.

#### 16.1.2 Using the Scan to Me feature

To send the email to the desired destination, the scan needs to be directed to a specific receiver email address. There are two options to enable the MyQ users to send the scans there: provide them with the respective receiver email address, or predefine these email addresses on the printing device's Web User Interface.

#### Email addresses for Scan to Me

- Sending scans to the user's primary email The scanned document is sent to the user email set in the email text box on the user properties panel. The receiver email address has to be *email@myq.local*.
- Sending scans to other emails The scanned document is sent to all emails set in the User's scan storage text box (multiple emails should be separated by commas) on the user properties panel.

The receiver email address has to be *folder@myq.local*.

• Storing scans to the user's scan folder - You have to create a shared folder and ensure that MyQ has access to this folder. After this, enter the folder's location to the User's scan storage text box. The scanned document is sent to MyQ, and then stored in the shared folder via the SMB protocol. The stored document file name consists of the user account name, and the date and the time when the scan was sent.

The receiver email address has to be *folder@myq.local*.

To enable MyQ to save the scan file in the user scan folder, you have to make sure that the folder is shared over your network and that the computer where you run MyQ has all the necessary access rights to this folder.

#### Predefined list of the MyQ destinations on the printing device

On the **Address List** on the printing device's web interface, you can predefine email addresses where the scanned documents are sent to.

. I Ho	me								
Add	Address List (Display All Items)								
	Back	]							
Wizard Method       Manual Input         Image       Image         Add User       Image         Change       Image         Number of Registered : User(s)8       Group(s)0         Switch to Display Specified No.of Items									
	Туре▼	Registration No. 🔻	Name	Freq. 🔻	Title 1 🔻	Title 2▼	Title 3 🔻	User Code▼	E-mail Address▼
0	1	00001	MyQ Email	On					myq@myq.local
	◎ 1 00002 SCAN to PDF On myqocr.pdf@myq.loca						myqocr.pdf@myq.local		
	1	00003	SCAN To Word	On					myqocr.word@myq.local
	1	00004	SCAN To Excel	On					myqocr.excel@myq.local

# 16.1.3 Scan email size limits

Due to email size restrictions in some email servers, users might not be able to send scans exceeding a certain size to their emails. To prevent such situations, you can set the maximum size of emails with scans on the MyQ Web Interface. Emails exceeding the limit are then replaced by emails with a secure link to the scan file, which is saved on the MyQ print server.

a Scanning & OCR				
> General				
✓ Default settings of an email w	ith scan			
Maximum email size: *	2047 MB If the email exceeds the maximum size, a secure link to the document will be sent.			
Sender: *	Logged user			
Subject: *	MyQ: scanned document Parameters: %username%, %timestamp%, %originalSubject%, %originalBody%, %admin%			
Message:	Message: Scan in attachment Scan as a secured link			
	Dear %fullname%, here are your scanned documents, hope they find you well. Did you know you can have them sent to a cloud storage or add a big scoop of convenience and flexibility to your office printing with the free MyQ X Mobile Client? https://www.myq-solution.com/en/myq-x-8-2-mobile-app			

- **Maximum email size** Set the maximum size limit (in MB) of the email with the scan. The default value is *2047MB*.
- If the scan is bigger than the above limit, it will be sent as an email with a secure link to the scan.

You can edit the email Sender, Subject, and Message as well.

You can use multiple parameters, such as *%username% %timestamp%*, *%admin%*, etc.

The %links% parameter represents the actual link to the stored scan file.

# 16.2 OCR

Optical Character Recognition is a service that converts scanned documents to a searchable and editable format, such as a text document or a searchable PDF. To provide this functionality, you can either use the MyQ OCR (Optical Character Recognition) server, which can be purchased as a part of the MyQ solution, or you can employ a third-party application.

For information on how to purchase the MyQ OCR server, please contact the MyQ sales department.

MyQ Print Server 10+ requires MyQ OCR Server 3.0+.

#### 16.2.1 Activation and setup

The OCR feature has to be enabled on the **Scanning & OCR** settings tab, under **OCR**.

▼ OCR					
Enabled: *					
OCR server type: *	Custom OCR server     For example, scans to the profile "Searchable PDF" are stored in a folder according the profile name "InSearchable PDF".     Connect the OCR software to this folder and set the folder to output documents to "Out". Folder locations are relative to     the OCR working folder.				
	O MyQ OCR Server				
OCR working folder: *	(%app%\OCR				
	The OCR server needs to be provided with the permission to write to this folder. %app% is the MyQ data folder				
Profiles:	🕒 Add 🖉 Edit   ×				
	Name				
	The list is empty				
	Add				
	Profiles are available in the Easy Scan terminal action				
	Cancel				
Fields marked by * are mandatory.					

Choose the **OCR server type** from a *Custom OCR server* or the *MyQ OCR Server*.

You can change the folder where the scanned data is sent in the **OCR working folder** field. It is however, not recommended to change the default folder (*C:* \*ProgramData*\*MyQ*\*OCR*).

The OCR folder contains two sub-folders: **in** and **out**. In the **in** folder, the scanned documents are stored before being processed. In the **out** folder, the processed documents are saved by the OCR software and are ready to be sent.

A document sent to be processed by OCR is received with a certain delay, depending on the OCR software speed, and on the size of the document.

Running the OCR software on the same production server as MyQ may affect your system's performance.

#### 16.2.2 OCR processing

To send a scanned document to OCR, the entered receiver email address has to be in the form: **myqocr.\*folder\*@myq.local**, where *folder* is the folder where the document is saved before it is proceeded by the OCR software, for example *TXT* or *PDF*. If the folder is not there, MyQ will create it.

🌆 l 💽 🔝 = l		OCR	_	
File Home Sh	hare View			v 🕐
🔄 💿 🔻 🕯 💽	C:\ProgramData\MyQ\OCR	<b>ن</b> ک	Search OCR	Q
📔 Desktop	^ Name	•	Date modified	Туре
Documents Downloads	in		9/10/2015 4:11 AM	File folder
Music	≡ 🔉 out		9/10/2015 4:11 AM	File folder
Pictures				
📔 Videos				
📥 Local Disk (C:)	<ul> <li>✓ &lt;</li> </ul>	Ш		>
2 items   1 item select	ted			:==

The OCR software should listen to the document sub-folders of the **in** folder (*in\pdf*, *in\txt*,...), process the file that was sent there, save the converted document to the **out** folder and delete the source file from the *in\*folder\** folder.

MyQ listens to the **out** folder, sends the converted file to the user and deletes it from the folder.

The converted file is sent to the folder or email address listed in the **User's scan storage** text box, in the user properties panel.

The file sent to the **out** folder by the OCR software has to have the same name as the source file in the **in**\*\*\* folder. If the name of the converted file differs from the source file, it is deleted without being sent to the user.

# 16.3 Email commands

- email@myq.local Sends the document to the user's primary email.
- **folder@myq.local** Sends the document to the folder or emails set in the User's scan storage text box on the user's properties panel.
- myqocr.\*folder\*@myq.local Sends the document to the OCR service.
   \*folder\* is the folder where the document is saved before it is proceeded by the OCR software.
- myqfwd-\*email\*- Any email sent from a printing device directly to MyQ is discarded if the device is not in the user session status. If you want to forward messages from a printing device activated on the MyQ

server to some email address, you have to add the **myqfwd-** prefix.

 \*email\*- is the email address where MyQ forwards the sent mail.
 For example, if you want to forward messages to the admin@domain.com address, you have to set the address as myqfwd-admin@domain.com.

# 17 Code Books

On the **Code Books** settings tab (**MyQ, Settings, Code Books**), you can add code books and code lists with defined values for each of them. These code books and lists can be used with your scan profiles in multiple ways, such as allowing users to use scan recipients from an LDAP source, set up output folders from an internal code list, search users from an MS Exchange address book, etc.

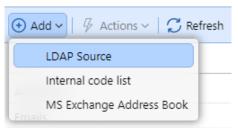
= MYQ G Home	Settings: Code Books	
% Settings	Code Books	
👹 Quota		
Projects	✓ General	
👩 Price lists	Cache code book for: 10 minutes	
Jobs		
a Scanning & OCR		Save Cancel
Code Books	Add ~ ∅ Actions ~ □ C Refresh	
🕑 Reports		
C External Reports	Name	Туре
	Addresses	MS Exchange Address
S External Systems	Emails	Internal code list
🖉 Log & Audit	Folders	LDAP
QQ System Management		

In the **General** section you can find the **Cache code book for: \_\_\_\_minutes** setting. The value set here determines how long the code book will be cached in MyQ, to be available in case of a lost connection between the MyQ server and the LDAP server. The default value is *10* minutes.

In the Code Books section, you can add and modify your Code Books.

Three types of Code Books can be added:

- LDAP Source
- Internal code list
- MS Exchange Address Book



To add a new Code Book, click **+Add** and select the type you want to add from the drop-down.

To delete a Code Book, select it, click **Actions**, and select **Delete**, or right-click on the Code Book and select **Delete**.

To edit a Code Book, select it, click **Actions**, and select **Edit**, or right-click on the Code Book and select **Edit**, or double-click on the Code Book.

# 17.1 LDAP Source Code Books

On the **Code Books** settings tab (**MyQ, Settings, Code Books**), you can enable selecting scan recipients directly from an LDAP server by importing the codes from that server.

In the Code Books section, click **+Add** and select *LDAP Source* from the drop-down. The new code book's properties panel opens on the right side of the screen.

Folders	×		
General			
Title: *	Folders		
Server: *	testAd.local ~		
User: *	Administrator		
Password: *	••••		
Base DN: *	OU=Import_Test		
	(+) Add		
Filter:	objectClass=user department=Managers		
	Attribute=Value Attribute=Value		
✓ Properties			
Title: *	Cn		
Value: *	folder		
	Cancel		
Fields marked by * are mandator	y.		

On the properties panel, fill in the required information, and click **Save**:

- Title The code book's name.
- Server The LDAP server that you want to import the attributes from.
- User The user name for accessing the LDAP domain server.
- **Password** The password for accessing the LDAP domain server.
- **Base DN** The base domain(s) that you import the attributes from. Click **+Add** to add a text box for an additional base DN, and then enter the domain. You can add multiple domains this way.
- Filter You can filter the users import by specifying the attributes' values. Attribute=Value. Users with different values in this attribute are not accepted

and are filtered out of the import. You can use the \* symbol to search for substrings. The symbol can be appended from both sides. For example, if you add a cn=*in* condition, only users whose common name attribute contains "in" are accepted. Add one condition per one raw. Users are accepted if they satisfy at least one condition.

 Properties: Title, Value - Define the titles and values of the code for each user by entering their attributes from the LDAP database. For example, you can enter the *cn* attribute as the Title and the *folder* attribute as the Value. This way, each code will contain the user's folder and its title will be the user's full name.

# 17.2 Internal Code List

On the **Code Books** settings tab (**MyQ, Settings, Code Books**), you can predefine code lists with values and use the values as options available for users.

In the Code Books section, click **+Add** and select *Internal code list* from the dropdown. The new code book's properties panel opens on the right side of the screen.

Emails	×
General Rights	
Name: * Emails	
Save Cancel	
Fields marked by * are mandatory.	
$\bigcirc$ Add $\uparrow$ $\checkmark$ $\checkmark$ Actions $\sim$ $\textcircled{res}$ Tools $\sim$ $\swarrow$	
Code Description Rights	
C:\Scanned Doc Eliot (Work)	~
OK Cancel	

On the properties panel, on the **General** tab, enter a **Name** for your new internal code list, and click **Save**. The new code list is added to the list on the **Code Books** settings tab.

On the **Rights** tab, you can provide users or groups of users with the right to use the code list. Click **Add User** and select the user or group from the drop-down. Check the boxes for the rights you want to assign to them.

#### 17.2.1 Add new codes to an existing code list

1. Double-click on the code list (or right-click the code list and click **Edit**). The code list's properties panel opens on the right side of the screen.

- 2. On the panel, click **+Add**.
- 3. Enter the **Code** name and its **Description** (the description will be shown on the terminal). You can also assign access **Rights** to this code to users or groups. Finally, click **OK**.

#### 17.2.2 Import codes from a CSV file

- 1. Double-click on the code list (or right-click the code list and click **Edit**). The code list's properties panel opens on the right side of the screen.
- 2. On the panel, click **Tools**, and select **Import from CSV file**.

Emails	×			
General Rights				
Name: * Emails				
✓ Save	Cancel			
Fields marked by * are mandatory.				
⊕ Add   ↑ ↓ ∮ Actions ~	🖻 Tools 🗸 📿			
Code Description	Show archived			
C:\Scanned D Eliot (Work)	Ascending sort			
	Import from CSV file			

3. In the Import from CSV file panel, browse and select the CSV file that you want to import, select the **Column delimiter** used in the file, select the character set (**Charset**) used in the file, choose if you want to **Update existing values** and/or **Skip header line**, and click **OK**.

Import from CSV file	×
The first column is the item code. The second column is the optional item description.	
CSV file: * Choose File No file chosen	
Column delimiter: * 🛛 🗸	
Charset: * UTF-16 ~	
Update existing values: 🗹	
Skip header line: 🕑	
V OK Cancel	
Fields marked by * are mandatory.	

Each line of the CSV file has to consist of either one, two or three columns. The first column contains the code, while the optional second and third columns contain the code's description and the users or groups with access to this code. For example:

Code1,This is Code 1,All users Code2,This is Code 2,"eliot.kate" Code3, This is Code 3 Code4

# 17.3 MS Exchange Address Book

You can use an MS Exchange Address Book to retrieve personal contacts from the user's mailbox from the MS Exchange Server. You can set parameters for Email, Fax and Phone.

- The following versions are supported:
  - MS Exchange Server 2013 SP1 (from build 15.0.847.32)
    - MS Exchange Server 2016
    - MS Exchange Server 2019

#### 17.3.1 MS Exchange Server Configuration

All settings on IIS (Internet Information Services) have to be set up correctly to allow third-party applications (MyQ) to communicate with the EWS service.

On your MS Exchange Server, the only necessary setting is configuring an account with the '**ApplicationImpersonation'** right, in order to be able to access other users' mailboxes.

To do that:

- Log in to your Exchange Admin Center.
- Go to the **permissions** tab, and Create (+) a new **Admin Role**.
- In this new role, add the **ApplicationImpersonation** right.
- In this new role, add user/admin account that you want to use in MyQ for accessing personal contacts of other users' mailboxes.

e	Role Group - Internet Explorer	_ <b>□</b> ×
new role group		Help
*Name: New Role For MyQ CodeBook		
Description:		
Write scope:		
Default	~	
Organizational unit:		
Roles:		
+-		7
NAME	*	
ApplicationImpersonation		
Members:		
+-		Select the administrator
NAME Administrator	DISPLAY NAME Administrator	roles that correspond to the Exchange features and services that members of
	Autoritistator	this role group should have permissions to manage.
		Learn more
	Si	ave cancel
		€ 100% ◄ ا

# 17.3.2 Adding a new MS Exchange Code Book in MyQ

On the **Code Books** settings tab (**MyQ, Settings, Code Books**), in the Code Books section, click **+Add** and select *MS Exchange Address Book* from the drop-down. The new code book's properties panel opens on the right side of the screen.

On the properties panel, fill in the required information:

📙 Emails	×
General	
Name: *	Emails
Server: *	
User: *	
Password: *	
Security: *	None ~
	Save Test Cancel
Fields marked by * are man	ndatory.

- Name Add a name for the code book.
- Server The host name or the IP address of the MS Exchange Server.
- **User** The name of the user who has the required rights (*applicationImpersonation* to access other users' mailboxes) on the MS Exchange Server.
- Password The above user's password.
- Security Select None or SSL.

Click **Test** to check the connection to the MS Exchange Server, and click **Save** to make the new MS Exchange code book available.

#### 17.3.3 Using MS Exchange Code Books on a MyQ scan profile

Go to **MyQ, Settings, Terminal Actions** and create a new parameter for a scan profile of your choice. To do that, double-click the scan profile. In the properties panel that opens on the right side of the screen, go to the **Parameters** tab. Click **+Add** and fill in the required information to setup the new parameter.

Parameter	×
Title: *	MS Exchange Emails
Type: *	Code Book 🗸
Code Book: *	Addresses ~
Default value: *	Email v
Required:	Email Phone
> Advanced	Fax
Fields marked by * are mand	Cancel

- Title Add a title for this new parameter.
- Type Select Code Book from the drop-down.
- Code Book Select your MS Exchange Address Book from the drop-down.
- **Default value** Select the type of contact to be displayed for the user:
  - Email Will display emails from retrieved contacts.
  - Phone Will display phone numbers from retrieved contacts.
  - Fax Will display fax numbers from retrieved contacts.
- **Required** Mark the checkbox if you want to make this parameter mandatory.
- After opening the MS Exchange code book on a terminal, only the first 50 items are shown. Users can search for any non-listed items by using the name of the hidden contact. Email, Fax and Phone are separately shown.

# 18 Credit

With the credit accounting feature activated, users can copy, print and scan only if they have enough credit on their account in MyQ. Printing is allowed only for print jobs that do not exceed the credit and copying is terminated immediately after the credit is exceeded. The credit system can be restricted to selected users and groups.

Users can view the current amount of credit on their accounts on the MyQ Web Interface and in the MyQ mobile application. If a printing device is equipped with an embedded terminal or a reader with an LCD display, the logged users check the current state of their credit there and are allowed to select only those jobs that do not exceed their credit.

Based on the setup and properties of the printing environment, a variety of recharge methods may be employed. The MyQ administrator can manage the credit on the MyQ Web Interface, and also provide the users with the option to recharge the credit themselves on embedded terminals, on recharging terminals, in the MyQ mobile application, via recharging vouchers, or via a third-party payment method.

The MyQ Administrator (and authorized MyQ users) can also reset the credit to a specific amount on the MyQ Web Interface.

# 18.1 Activation and setup

The activation and setup of credit accounting is managed on the **Credit** settings tab (**MyQ**, **Settings**, **Credit**).

To set up credit accounting:

**Enable** credit accounting on the **Credit** settings tab:

≡ myę	Home	👼 Settings: Credit		⊗
Settings		Accounting 🕨 应	Credit	
Accounting		▼ General		
Quota Projects			Enabled: O If credit is enabled, it is recommended to enable the Job parser on the Settings > Jobs page	
Projects			Cancel	
Jobs				

Activate credit for a user or for a group of users:

😤 Users and Groups	
🕂 Add item 🧷 Edit 🕇	$\downarrow$ X Delete
Name	Account
Anagers	▼ MyQ local credit account ▼
	OK Cancel

 Under Users and Groups, click +Add item. A new item appears on the list of users and groups on the Credit settings tab.

- Select a **Name** from the drop-down list:
- Select an **Account** from the drop-down list. The available options are:
  - Managed by the printer
  - External credit account
  - MyQ local credit account
- Click **OK** to save the settings.

#### Enable/disable payment methods for credit recharge

Available payment methods:

- Recharge Credit (on a terminal attached to a printer)
- Voucher
- PayPal
- External Payment Providers
- WebPay
- Recharge Terminal
- CASHNet
- TouchNet uPay
- SnapScan

To enable any of these options (if disabled), select it in the **Payment providers** section, and then click **Enabled** on the bar at the top of the section (or right-click the item, and then click **Enabled** on the shortcut menu).

🕸 Payment providers					
🖉 Edit 💿 Enab	led				
Enabled	Name	Туре			
Account					
	Managed by the printer	Account			
	External credit account	Account			
	MyQ local credit account	Account			
Credit recharge					
<ul> <li>Disabled</li> </ul>	CASHNet	Credit recharge			
<ul> <li>Disabled</li> </ul>	External Payment Providers	Credit recharge			
Enabled	PayPal	Credit recharge			
<ul> <li>Disabled</li> </ul>	Recharge Credit (on a terminal attached t	Credit recharge			
<ul> <li>Disabled</li> </ul>	SnapScan	Credit recharge			
Enabled	Voucher	Credit recharge			
<ul> <li>Disabled</li> </ul>	WebPay	Credit recharge			

# 18.2 Manual credit recharge

The administrator (and users authorized to recharge credit) can manually recharge the credit of each user to a specific value. This can be done either on the **Credit Statement** main tab, or on the **Users** main tab in the MyQ Web administrator interface.

On the Credit Statement tab, you first open the credit recharge action, and subsequently select the users and groups to recharge credit.

On the Users tab, first select the users or group, and then recharge their credit.

Users' credit can be reduced by entering a negative number in the recharge credit dialog box. By entering *-100*, the credit is decreased by 100.

# 18.2.1 Providing users with rights to recharge credit

By default, the only person who can recharge credit is the administrator. However, the administrator can authorize a MyQ user to recharge credit as well. The user needs to be provided with the rights to access the credit settings and to recharge credit. This is done on the Rights settings tab of the MyQ Web Interface.

To authorize a user to recharge credit on the **Credit Statement** tab, you need to provide them with the right to **Recharge credit**.

To authorize a user to recharge credit on the **Users** tab, you need to provide them with the right to **Recharge credit** and the right to **Manage Users**.

The authorized user can then recharge credit on their MyQ Web interface in the same way as the MyQ administrator.

# 18.2.2 Recharging credit on the Credit Statement tab

On the **Credit Statement** tab, you can overview the changes in the credit balance of MyQ users, and also recharge credit to users and groups. To open the tab on the MyQ Web administrator interface, go to **MyQ**, **Credit Statement**.

To recharge credit to users or groups:

1. Click **Recharge Credit**. The Recharge Credit dialog box appears on the tab.

= <b>MYQ</b> G Home	👩 Cr	edit Statement					~	0
ổ Credit Statement			Recharge Credit	Reset credit	🖻 Tools 🔻	📿 Refresh	Search	Q
Date:		ID	Date	•	Туре	Credit balance		Valu
Select a period or enter a range with the format starting dateending date. Date format: mm/dd/yyyy				The list is en	npty			
User:	•							
Created by:								
Payment provider:								
None								
Q Search		✓ Count: Count it	← Page: →	Items per pag	ge: 0			F

2. In the dialog box, either **Enter the card ID** of a user card, or select the **User or group** to recharge the credit to, then **Enter amount** to be recharged, and lastly, click **Recharge Credit**.

Recharge Credit	×
Enter the card ID: User or group: * Anagers	•
Enter amount: * 50	
Credit can be decreased by using a negative number.	
Fields marked by * are mandatory.	

#### 18.2.3 Recharging credit on the Users main tab

To open the **Users** main tab on the MyQ Web administrator interface, go to **MyQ**, **Users**.

To recharge credit to selected users:

- 1. Select the users.
- 2. Click Actions.
- 3. Click **Recharge Credit** in the **Actions** drop-down. The Recharge Credit dialog box opens.

Q All users	(+) Add user	r 🖗 Actions 🗸 🖻 Tools 👻 🍃 Search 🔍
User name	Full name 🔺 Email	Credit Credit
*admin *api	Administrator API	Recharge Credit ) Disabled
Carol Kai	Carol Kai Carol.Kai@email.com	Release blocked credit Boost quota Enabled
*fax	Fax	Release blocked quota
*system *unauthenticated	System User not authenticated by MyQ	Generate PIN Disabled
		Remove from group Show effective policies
		C Unlock

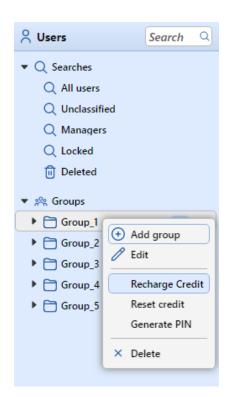
4. **Enter amount** to be recharged, and then click **OK**. The credit is increased by the specified amount.

Recharge Credit		×
User or group:	Carol Kai	•
Enter amount: *	50 Credit can be decreased by using a negative number.	
✓ Re	charge Credit Close	
Fields marked by * are mandate	ory,	

To recharge credit to a group of users:

1. In the panel on the left side of the **Users** main tab, right-click the group, and select **Recharge Credit**. The Recharge Credit dialog box appears.

#### Credit



2. In the dialog box, **Enter amount** to be recharged, and click **OK**. The credit is increased by the specified amount.

### 18.3 Recharging credit by vouchers

The MyQ administrator (and users authorized to manage vouchers) can generate and print any number of vouchers of a defined value to be distributed to users.

The vouchers can be sold to MyQ users through any standard distribution channel. Once the user has the credit voucher, they can recharge their credit on their account on the MyQ Web Interface, on embedded terminals, on MyQ TerminalPro terminals and in the MyQ mobile application.

All generated and used vouchers are logged in the MyQ database. The information about which voucher was used and for which user can be accessed on the MyQ Web administrator interface. This ensures full control and transparency and enables the administrator to prevent possible misuse.

#### 18.3.1 Setting the voucher format

Before the vouchers are generated, it is necessary to set the format of the voucher unique code and define the text printed on the voucher. These parameters can be set and modified on the **Credit** settings tab, under **Payment providers**. Select **Voucher** and mark it as **Enabled**. Then, double-click the **Voucher** item (or select the item and click **Edit**) to open the **Voucher** properties panel.

The unique code format can be defined by creating a **Voucher code mask** – a predefined code template consisting of zeroes and lower case a's. Zeroes are substituted by numbers and a's are substituted by upper case letters or numbers. For

example, the *00a0000aaa* mask will generate numbers such as *86D9841POE*, *03E8976E67*, etc.

Always set the code format adequate to the number of users and the frequency of the voucher generation process, to ensure a sufficient variety of codes. If the amount of the currently valid codes is large and the variety not sufficient, the chance of randomly guessing the valid code number is high and the credit system can be easily bypassed.

The text entered in the **Voucher-custom lines 1 and 2** fields is displayed on the printed vouchers. You

can enter, for example, the name of your company and additional information.

🗟 Voucher	×	
Voucher code mask:	00000000000	
	0=number, a=alpha/num, for example: 000-aaa-aaa	
Voucher - custom line 1:	Company X	)
Voucher - custom line 2:	Printing vouchers	)
	✓ Save Cancel	

Do not forget to set the currency on the **General** settings tab, if you have not set it earlier. The currency on the printed voucher is the same as the one set in MyQ.

#### 18.3.2 Custom logo for Credit Vouchers

If you want to use your own logo on MyQ credit vouchers instead of the default MyQ logo, you can import the new logo on the Personalization settings tab in the MyQ Web Administrator Interface.

The file with the logo has to be in the *JPG*, *JPEG*, *PNG* or the *BMP* format; the recommended size of the logo is 398px x 92px.

To import the logo:

- 1. On the MyQ Web administrator interface, open the **Personalization** settings tab. (**MyQ, Settings, Personalization**).
- 2. On the tab, under **Custom application logo**, click **+Add**, browse and upload the file with the logo, and lastly click **Save** at the bottom of the tab. A preview of the new logo is displayed on the tab.

#### 18.3.3 Voucher Batches

Vouchers can be generated on the **Voucher Batches** tab of the MyQ Web Interface. To open this tab, go to **MyQ, Voucher Batches**.

To generate new vouchers:

1. On the bar at top of the **Voucher Batches** tab , click **+Add**. The New Voucher Batch dialog box appears.

≡ <b>my</b> Q	Home		Voucher Bate	ches			
🖼 Voucher Batches							
Voucher batch:		_	🕀 Add	🥖 Open	Print vouchers	Save as CSV	💭 Refresh
Created			Serial nu	Created	<ul> <li>Created by</li> </ul>		Price

2. In the dialog box, enter the number of vouchers to be generated in the **Count** field, the **Price** of the vouchers, add the validity period in the **Valid until** field, and then click **OK**.

Add vouch	er batch	×
Count: *	80	
Price: *	100	
Valid until:	04/01/2022	
	mm/dd/yyyy	
	V OK Cancel	
Fields marked b	y * are mandatory.	

The new voucher batch record is displayed in the voucher batches list. You can overview all of the vouchers by double-clicking a record.

#### **Managing Voucher Batches**

Voucher batches can be filtered by serial number, date, creator, price, expiry date, etc. From the **Voucher Batches** main tab, you can export the list of voucher batches to a CSV, and display and print vouchers included in particular batches.

	oucher Batches	
🖼 Voucher Batches		
Voucher batch:	🕒 Add   🖉 Open 🗟 Print vouchers   Save as CSV 💭 Refresh	
Created:	Serial nu   Created by Price   Valid until   Count   Remain	ning Used
	Today	
Select a period or enter a range with the format starting dateending date. Date format:	2 02/08/2022 4: Administrator 100.00 04/01/2 80 80	0%
mm/dd/yyyy	1 02/08/2022 4: Administrator 59.00 03/01/20 10 10	0%
Created by:		
Price:		
Expire date:		
Select a period or enter a range with the format starting dateending date. Date format: mm/dd/yyyy		

#### 18.3.4 Providing users with rights to manage vouchers

To enable users to manage vouchers on the **Voucher Batches** main tab, provide them with the **Manage Vouchers** rights.

For more information about rights and how to provide them, see Rights.

#### 18.3.5 Vouchers usage overview

To open the table of all the vouchers generated in one batch, double-click the batch on the **Voucher Batches** main tab (or select the batch, and then click **Open** on the bar at the top of the tab).

In the table, you can see records of all of the generated vouchers with information such as the unique code, price, validity, the current status of the voucher usage, etc. If the number of records is too high to be displayed clearly, you can filter them by using filters on the left side. Vouchers can be filtered by code, voucher batch, price, etc.

To delete a voucher, select it on the table and click <b>Delete</b> on the bar at the top of	
the tab. When a voucher is deleted, the code on the voucher becomes invalid.	

Voucher Batches 🕨 🛅 Vouchers					
Code:	× Dele	te Save	as CSV 🛛 🎵 Refresh		
	Batch 🔺	Serial nu	Code	Price Valid until Used Used by Deleted	
Voucher batch:	-		562021222220	F0.00 03/01/00	
1	1	1	563031232299	59.00 03/01/20	
Used:	1	2	070042905921	59.00 03/01/20	
	1	3	663940962812	59.00 03/01/20	
Select a period or enter a range with the format starting dateending date. Date format:	1	4	944757255790	59.00 03/01/20	
mm/dd/yyyy	1	5	941198955786	59.00 03/01/20	
Used by:	1	6	423270892616	59.00 03/01/20	
•	1	7	912442336493	59.00 03/01/20	
Price:	1	8	226007417925	59.00 03/01/20	
	1	9	485944192143	59.00 03/01/20	
Expire date:	1	10	407585251708	59.00 03/01/20	
Select a period or enter a range with the format starting dateending date. Date format: mm/dd/yyyy					

#### 18.4 Recharging credit via PayPal

Another way of recharging credit in MyQ is to let users directly buy the credit via PayPal on their accounts on the MyQ Web interface.

A PayPal Business account is required to receive the payments.

The currency used on the PayPal account of the paying users has to match the currency set on the MyQ server. In case someone pays in a different currency, the payment does not go through and stays in the pending transactions of the receiving PayPal account. In order to receive the payment, the administrator has to approve the transaction on the PayPal account. After this, the credit must be

manually recharged on the MyQ server as the information about the payment is not sent to MyQ.

### 18.4.1 Setting up the PayPal payment option

To set up PayPal as a payment option, you have to create a new App to link your company's PayPal business account with MyQ, and then set up the PayPal payment option on the MyQ Web Interface.

#### Create a new REST API app in the PayPal Developer environment

- 1. Log in to the PayPal Developer environment (https://developer.paypal.com/) with your PayPal Business account's credentials, and then open the **Dashboard**.
- On the Dashboard, under MyApps & Credentials, create a new REST API app. The new app's settings tab opens.
   REST API apps

Create an app to receive REST API credentials for testing and live transactions.

Note: Features available for live transactions are listed in your account eligibility.



 Select Live at the upper-right corner of the tab, and remember (copy) the app's Client ID and Secret. The credentials will be used to connect the account to MyQ.

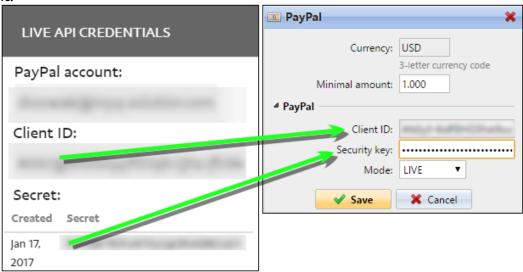
MyQ	Sandbox Live
App display name: MyQ 🖉	
LIVE API CREDENTIALS	

#### Set up the PayPal payment option on the MyQ Web Interface

- 1. Open the Credit settings tab (MyQ, Settings, Credit).
- 2. On the tab, under **Payment providers**, double-click the **PayPal** payment provider. The **PayPal** properties panel opens on the right side of the tab.
- 3. The value of the **Currency** setting corresponds to the currency set on the **General** settings tab on the MyQ Web Interface.

💥 General		I PayPal	×
▲ General		Currency: USD	
Administrator email: *		3-letter currency code umal amount: 1.000	
Time zone: * Default language: *	ten kogén (1914) Region (1996) Ang	Pave d     Client ID:     Security key:	
Additional languages:		Mode: LIVE    Kancel   Kancel	
Currency:	USD 3-letter currency code	a	

- 4. Type the minimal amount that users will have to pay when they buy credit.
- Enter the Client ID of the REST API app into the Client ID text box on the PayPal properties panel and the Secret into the Security key text box below it.



6. Make sure that the *LIVE* **Mode** is selected, and then click **Save**. (The *SANDBOX* mode is used only for testing purposes).

# 18.4.2 Recharging credit via PayPal on the user's account on the MyQ Web Interface

First of all, the user needs to log in to their account on the MyQ Web Interface. To recharge the credit there, the user has to click **Recharge credit** under **Credit**. The Recharge credit dialog appears.

A Home	
Quick links	
🗐 Jobs 🕒 Reports   🐹 Settings	
Credit	
Account balance: 0.00           Recharge Credit         Credit Statement	

In the dialog box, the user has to select the **PayPal** payment provider, enter the amount of credit that they want to buy, and then click **Recharge Credit**.

Recharge Credit	×
Account balance:	0.00
Payment provider: *	PayPal
Enter amount: *	10.00
✓ R	echarge Credit Close
Fields marked by * are manda	torv.

A window with the PayPal payment options opens in the web browser; the rest of the steps correspond to the standard PayPal payment process.

After the payment is successfully sent to MyQ, the **Payment successful** dialog box appears.

PayPal tries to connect to the MyQ server via the hostname or IP address that is set on the Network settings tab of the MyQ Web Interface. In case a hostname is set on the tab and paying users receive the "This site can't be reached / XYZ's server DNS address could not be found. / DNS\_ PROBE\_FINISHED\_NXDOMAIN" message, try to replace the hostname with the IP address of your server.

# 18.5 Recharging credit via WebPay

The WebPay payment gate enables customers to directly pay for their credit via a payment card or via a digital wallet.

#### 18.5.1 Setting up WebPay

You need to have a WebPay account, get a public and a private key; the public key has to be uploaded to the WebPay server and the private one needs to be uploaded to MyQ. Also, you need to remember/copy the password of the private key. You can

either use your own keys (for more information, check the WebPay documentation) or use the WebPay tools to create new ones.

MyQ needs the following data:

- **Merchant number**: The Merchant number can be found on the WebPay portal, under **Key management**.
- **Private key**: The private key can be generated on the WebPay portal, under **Key Management**. It can be in the *.key*, *.pem* or *.crt* format.
- **Private key password**: The private key password is the password that is provided to WebPay during private key generation, or the passphrase used to create the private key manually.

### 18.5.2 Setting up the WebPay payment option on the MyQ Web Interface

- 1. Open the Credit settings tab (MyQ, Settings, Credit).
- 2. On the tab, under **Payment providers**, right-click the **WebPay** payment provider, and then click **Edit** on the shortcut menu. The **WebPay** properties panel opens on the right side of the tab.
- 3. The value of the **Currency** setting corresponds to the currency set on the **General** settings tab of the MyQ Web Interface.
- 4. Type the **minimal amount** that users will have to pay when they will buy credit.
- 5. Enter the Merchant number of the REST API app into the Merchant number text box and set the MODE to PRODUCTION.
   WebPay

webray	
Merchant number:	8888880012
Mode:	PRODUCTION V

6. Upload the **Private key** from WebPay (click **Choose File**, select the file, and then click **Open**), enter the **Private key password** provided during generating of the private key, and then click **Save**.

1 21			
Private key:	Choose File	gpwebpay-pvk.key	]
	Key is uploaded.		
Private key password:	•••••		
	V Nave	🗶 Cancel	

# 18.5.3 Recharging credit via WebPay on the user's account on the MyQ Web Interface

First of all, the user needs to log in to their account on the MyQ Web Interface. To recharge the credit there, the user has to click **Recharge credit** under **Credit**. The Recharge credit dialog appears.

G Home	
Quick links	
🗐 Jobs 🕒 Reports   🐹 Settings	
Credit	
Account balance: 0.00           Recharge Credit         Credit Statement	

In the dialog box, the user has to select the **WebPay** payment provider, enter the amount of credit that they want to buy, and then click **Recharge Credit**.

Recharge Credit	×
Account balance: 0.00	
Payment provider: * WebPay	•
Enter amount: * 10.00	
✓ Recharge Credit Close	
Fields marked by * are mandatory	

A window with the **WebPay** payment options opens in the web browser; the rest of the steps correspond to the standard WebPay payment process.

After the payment is successfully sent to MyQ, the **Payment successful** dialog box appears.

WebPay tries to connect to the MyQ server via the hostname or IP address that is set on the Network settings tab of the MyQ Web Interface. In case a hostname is set on the tab and paying users receive the "*This site can't be reached / XYZ's server DNS address could not be found. / DNS\_ PROBE\_FINISHED\_NXDOMAIN*" message, try to replace the hostname with the IP address of your server.

## 18.6 Recharging credit via CASHNet

The **CASHNet** payment gate enables customers to directly pay for their credit via a payment card or via a digital wallet.

To be able to integrate the **CASHNet** payment gate into MyQ, you need to have a **Checkout store** created by the provider of the service. For the correct setup and MyQ integration, you need to save the following data:

• **Operator ID**, **Password**, **Station**, and **Client Code** are necessary for logging in to the CASHNet Web User Interface.

• Merchant name, Station, Store URL, and Item code of the Checkout store are necessary for the integration into MyQ.

### 18.6.1 Setting up the CASHNet payment option

#### Set up the eMarket store on the CASHNet Web User Interface

- 1. Log in to the **CASHNet** Web User Interface.
- 2. Open the **Store Setup** tab.

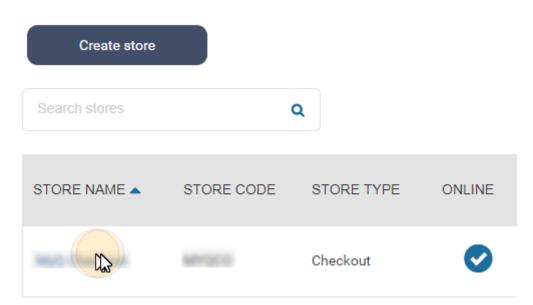
	Home Cashiering Find Transactions Reports S			
Home Page				
Home Page				
Cashiering	Operator: MYQ Department: MAIN Station: MYQ Client: EMAF			
Checkout	<ul> <li>Your last login was on Tuesday, July 24, 2018 at 1:27:13</li> </ul>			
Find Transactions	<ul> <li>Your password expires in 89 days. Click <u>here</u> to change i</li> <li>To change your secret question click <u>here</u>.</li> </ul>			
Reports				
Online Service Manager				
Imports	Messages			
System Setup	Have a question? Email us at support@cashnet.com or phone			
Store Set v	Thanks! CASHNet Support			
Fulfill Orders	Your Batches			

3. On the tab, click the dark blue button with the text **Click here to use new** eMarket store setup for Storefronts&Checkouts. The eMarket store setup page opens.



4. On the page, double-click the **Checkout store** button to open its setup page.

# eMarket



- 5. On the Checkout setup page, under **End of transaction behavior**, configure the following options:
  - a. Show receipt page: disable
  - b. Use redirect URL(s): enable
  - c. Redirect URL for successful transactions & successful online post responses: leave empty
  - d. Redirect URL for unsuccessful transactions or non-responsive online post attempts: leave empty
  - e. Append data to the redirect URL: set to Yes, and redirect using HTTP post

End of transaction behavior

Append data to the redirect URL	No Yes, and redirect using HTTP get Yes, and redirect using	I HTTP post
Redirect URL for unsuccessful transactions or non-responsive online post attempts	Enter the URL	
Redirect URL for successful transactions & successful online post responses	Enter the URL	
Use redirect URL(s)		
Show receipt page	×	

You can now leave the CASHNet Web User Interface.

#### Set up the CASHNet payment option on the MyQ Web Interface

- 1. Open the **Credit** settings tab (**MyQ, Settings, Credit**).
- 2. On the tab, under **Payment providers**, double-click the **CASHNet** payment provider (or right-click the **CASHNet** payment provider, and then click **Edit** on the shortcut menu). The **CASHNet** properties panel opens on the right side of the tab.

- 3. The value of the **Currency** setting corresponds to the currency set on the **General** settings tab of the MyQ Web Interface.
- 4. Type the **Minimal amount** that users will have to pay when they buy credit.

CASHNet		×
Currency:		
Minimal amount:	3-letter currency code 1.00000	

5. Enter the **Merchant name**, **Station**, **Store URL**, and **Item Code** of the Checkout store, and then click **Save**.

CASHNet	
Merchant name:	
Station:	
Store URL:	
Item code:	

# 18.6.2 Recharging credit via CASHNet on the user's account on the MyQ Web Interface

First of all, the user needs to log in to their account on the MyQ Web Interface. To recharge the credit there, the user has to click **Recharge credit** under **Credit**. The Recharge credit dialog appears.

≡ <b>my</b> Q	ome
🛆 Home	
Quick links	Settings
Credit	
Account balance: 0.00           Recharge Credit         Credit \$	Statement

In the dialog box, the user has to select the **CASHNet** payment provider, **enter the amount** of credit that they want to buy, and then click **Recharge Credit**.

Recharge Credit	×
Account balance: 0.00	
Payment provider: * CASHNet	•
Enter amount: * 10.00	
Recharge Credit     Close	
Fields marked by * are mandatory.	

A window with the **CASHNet** payment options opens in the web browser; the rest of the steps correspond to the standard **CASHNet** payment process.

After the payment is successfully sent to MyQ, the **Payment successful** dialog box appears.

CASHNet tries to connect to the MyQ server via the hostname or IP address that is set on the Network settings tab of the MyQ Web Interface. In case a hostname is set on the tab and paying users receive the "*This site can't be reached / XYZ's server DNS address could not be found. / DNS\_ PROBE\_FINISHED\_NXDOMAIN*" message. Try to replace the hostname with the IP address of your server.

# 18.7 Recharging credit via SnapScan

With the **SnapScan** app, users can pay for their MyQ credit via a QR code displayed in the app on their mobile phones.

To be able to connect **SnapScan** to MyQ, you need to create a **Merchant Snapscan Account** and obtain the **Merchant Account API**. Within the setup of the connection on the MyQ Web Interface, you must enter the **Merchant ID** and the **API key** of the account.

As **SnapScan** is a South African service, users need to use a phone with a South African Mobile number (+27) to be able to scan the QR code and pay for the credit.

#### 18.7.1 Setting up the SnapScan payment option

To set up the SnapScan payment option on the MyQ Web Interface:

- 1. Open the Credit settings tab (MyQ, Settings, Credit).
- 2. On the tab, under **Payment providers**, double-click the **SnapScan** payment provider. The **SnapScan** properties panel opens on the right side of the tab.
- 3. The value of the **Currency** setting corresponds to the currency set on the **General** settings tab of the MyQ Web Interface. For the SnapScan payment method to work, it needs to be set to *ZAR*.

💥 General			📧 SnapScan	×
▲ General			Currency: ZAR	
	Administrator email: *	parties and reported	3-letter currency code	
	Time zone: * Default language: *	ten kogita (1914) Region (respiration	API Key:	
	Additional languages:		Time interval to get 30 payments.:	
	Currency:	ZAR 3-letter currency code		

- 4. Type the **Minimal amount** of money that has to be paid when a user buys the credit.
- 5. Enter the **Merchant ID**(Company Name) and the **API key** provided by SnapScan.
- 6. Set the **Time interval to get payments** (in seconds), and click **Save**. The **Time interval to get payments** setting limits the time for the recharge action; if MyQ does not receive confirmation of the payment within the interval, the credit recharge is canceled. If the payment is successful but MyQ does not receive the response within the time limit, the user has to contact the MyQ administrator, who can manually recharge the credit.

# 18.7.2 Recharging credit via SnapScan on the user's account on the MyQ Web Interface

First of all, the user needs to log in to their account on the MyQ Web Interface. To recharge the credit there, the user has to click **Recharge credit** under **Credit**. The Recharge credit dialog appears.

≡ my <b>q</b>	G Home	
🛆 Home		
Quick links		
🗐 Jobs 🕒 Reports	s   💥 Settings	
Credit		
Account balance: 0		
Recharge Credit	Credit Statement	

In the dialog box, the user has to select the **SnapScan** payment provider, **enter the amount** of credit that they want to buy, and then click **Recharge Credit**.

Recharge Credit	×
Account balance: 0.00	
Payment provider: * SnapScan	•
Enter amount: * 10.00	
✓ Recharge Credit Close	
Fields marked by * are mandatory.	

A window with the SnapScan payment options opens in the web browser; the rest of the steps correspond to the standard SnapScan payment process.

After the payment is successfully sent to MyQ, the **Payment successful** dialog box appears.

SnapScan tries to connect to the MyQ server via the hostname or IP address that is set on the Network settings tab of the MyQ Web Interface. In case a hostname is set on the tab and paying users receive the "*This site can't be reached / XYZ's server DNS address could not be found. / DNS\_ PROBE\_FINISHED\_NXDOMAIN*" message, try to replace the hostname with the IP address of your server.

# 18.8 Bulk credit recharge

In MyQ, you can also import a bulk of credit from a bank statement or a CSV file.

The feature can be managed on the **Credit Statement** tab or on the **Users** main tab. To import a bulk of credit from a bank statement or CSV on either of the two tabs:

On the bar at the top of the tab (**Users** or **Credit Statement**), click **Tools**, and then click **Bulk credit recharge** in the **Tools** drop-down. The Bulk credit recharge dialog box opens.

≡ my <b>q</b>	Home R	Users					o <b>9</b> (2
📯 Users	Search Q	Q All users			(+) Add user	🖗 Actions 👻 🛛	🖻 Tools 🔻 🎵 Search 🔍
▼ Q Searches		User name	Full name	▲ Email	Personal number	Credit C	Bulk credit recharge
Q All users		*admin	Administrator			O Disabled	Export
Q Unclassified		*api	API			O Disabled	Select all Ctrl+A
Q Managers		Carol Kai	Carol Kai	Carol.Kai@email.com		• Enabled	
Q Locked		*fax	Fax			O Disabled	Edit columns
Deleted		*system	System			O Disabled	Default layout
🕨 🍂 Groups		username000001	User Full Name 000001	user000000@test.qq	1	O Disabled	Double header height

#### For bulk credit recharge from a bank statement:

The MyQ system can process the data from a GPC file. The variable symbol from the bank statement is used as unique data for the pairing of the payment and the MyQ user. The number must correspond to the user's personal number. The personal number can be imported or manually entered in the **Personal Number** field on the user properties panel, on the **Users** main tab.

On the bar at the top of the tab (**Users** or **Credit Statement**), click **Tools**, and then click **Bulk credit recharge** in the **Tools** drop-down. The Bulk credit recharge dialog box opens.

In the dialog box, select the **GPC** format option, choose the GPC file, and then click **OK**. Before importing the file, MyQ checks whether the GPC file has not already been imported. This avoids duplication of the credit recharge.

Bulk credit rech	arge		×
Format: * GPC File: * Ch	oose File No fi	le chosen	
	🗸 ОК	Cancel	
Fields marked by * are	e mandatory.		

If the system finds that the import of data from this file has already taken place, an error message appears and no data are imported. If MyQ identifies the GPC file as new, it checks all the payments on the bank statement step by step, and if it finds a variable number equal to the personal number of a MyQ user, the user's credit is increased by the corresponding amount from the bank statement. Once MyQ checks the GPC file, it displays a new html page with a report. The report displays both the users with increased credit and the payments with variable number not corresponding to any personal number in MyQ.

#### For bulk credit recharge from a CSV file:

On the bar at the top of the tab (**Users** or **Credit Statement**), click **Tools**, and then click **Bulk credit recharge** in the **Tools** drop-down. The Bulk credit recharge dialog box opens.

In the dialog box, select the **CSV** format option, choose the CSV file, and then click **OK**. You will be informed about the success of the operation and you can see the added amount of credit in the **Credit** columns on the user list.

Structure of the CSV file:

Each non-empty row has to consist of two entries separated by a delimiter: *name of the user\*delimiter\*amount of credit* 

The entered delimiter has to be the same as the delimiter set on the **General** settings tab, under **Column delimiter in CSV**.

# 18.9 Manual reset of users' credit on the MyQ Web Interface

The administrator (and users authorized to recharge credit) can manually reset the credit of each user to a specific value. This can be done either on the **Credit Statement** main tab, or on the **Users** main tab if the MyQ Web interface.

On the **Credit Statement** tab, you first open the credit reset action, and subsequently select the users and groups whose credit is to be recharged. On the **Users** tab, you first select the users or the group, and then reset their credit.

To authorize a user to reset credit on the **Credit Statement** tab, you need to provide them with the rights to **Recharge credit**. To authorize a user to reset credit on the **Users** tab, you need to provide them with the rights to **Recharge credit** and to **Manage Users**. The authorized user can reset the credit on their MyQ Web interface in the same way as the MyQ administrator.

# 18.9.1 Resetting credit on the Credit Statement tab

On the **Credit Statement** tab, you can overview the changes in the credit balance of MyQ users, and also reset credit to users and groups. To open the tab on the MyQ Web Interface, go to **MyQ, Credit Statement**.

To reset credit to users or groups:

1. Click **Reset credit**. The Reset Credit dialog box appears on the tab.



2. In the dialog box, either **Enter the card ID** of a user, or select the **User or group** to reset the credit to, then **Enter amount** of the credit, and click **Reset credit**.

×	Reset credit
	Enter the card ID:
-	User or group: * 🛛 🗙 Carol Kai
	Enter amount: * 25
	Reset credit     Close
	Fields marked by * are mandatory.
_	User or group: * Carol Kai Enter amount: * 25 Close Close

# 18.9.2 Resetting credit on the Users main tab

To open the **Users** main tab on the MyQ Web Interface, go to **MyQ**, **Users**.

To reset credit to a specific user:

 Select the users, click Actions, and then click Reset credit in the actions dropdown (or select the users, right click one of them, and then click Reset credit on the shortcut menu.) The Reset credit dialog box opens.

Sear	ch Q Q All users			(+) Add user	🖗 Actions 🕶 🖻 Tools 💌
▼ Q Searches	User name	Full name	▲ Email	Personal number	🖉 Edit
Q All users	*admin	Administrator			Recharge Credit Reset credit
Q Unclassified	*api	API			Release blocked credit
Q Managers	Carol Kai	Carol Kai	Carol.Kai@email.com		Boost guota
Q Locked	*fax	Fax			Release blocked quota
前 Deleted	*system	System			Set password
🕨 🍂 Groups	username000	001 User Full Name 000001	user000000@test.qq	1	Generate PIN
	username000	002 User Full Name 000002	user000000@test.qq	2	Remove from group
	username000	003 User Full Name 000003	user000000@test.qq	3	Show effective policies
	username000	004 User Full Name 000004	user000000@test.qq	4	G Unlock
	username000	005 User Full Name 000005	user000000@test.qq	5	× Delete Delete
	username000	006 User Full Name 000006	user000000@test.qq	6	🕤 Undelete
	username000	007 User Full Name 000007	user000000@test.qq	7	Anonymize

2. In the dialog box, **Enter amount** of the new credit, and then click **Reset credit**. The credit is reset to the specified amount.

Reset credit	×
User or group:	•
Enter amount: * 25	
✓ Reset credit Close	
Fields marked by * are mandatory.	

To reset credit to a group of users:

1. On the panel on the left side of the **Users** main tab, right-click the group, and then click **Reset credit** on the shortcut menu. The Reset credit dialog box appears.

≡ <b>my</b>	Home R
😤 Users	Search Q
<ul> <li>Q Searches</li> <li>Q All user</li> <li>Q Unclass</li> <li>Q Manag</li> <li>Q Locked</li> <li>Deleted</li> </ul>	sified ers
<ul> <li>Recoups</li> <li>Group</li> <li>Group</li> <li>Group</li> <li>Group</li> <li>Group</li> <li>Group</li> <li>Group</li> <li>Group</li> <li>Group</li> </ul>	<ul> <li>Add group</li> <li>✓ Edit</li> <li>Recharge Credit</li> <li>Reset credit</li> <li>Generate PIN</li> <li>× Delete</li> </ul>

2. In the dialog box, **Enter amount** of the new credit, and click **Reset credit**. The credit is reset to the specified amount.

The administrator can also release blocked credit for a user by right-clicking on the user and selecting **Release blocked credit**.

Q All users		
User name	Full name 🔺 En	nai
*admin	Administrator	
*api	API	
Carol Kai	Carol Kai	_
*fax	Fax dit	
*system	System Recharge Credit	
username000001	User Full N. Reset credit	
username000002	User Full N. Release blocked cred	it
username000003	User Full N 🛞 Boost quota	
username000004	User Full N Release blocked quot	a
username000005	User Full N. of Set password	
username000006	User Full N Generate PIN	
username000007	User Full N Remove from group	
username000008	User Full N. Show effective policie	es
username000009	User Full N.	
username000010	User Full N	
username000011	User Full N.	te
username000012	User Full N Anonymize	
username000013	User Full Name coccio	

# 18.10 Credit accounting reports

On the **Reports** main tab, you can create, edit and generate two types of reports with information about credit:

- The **Credit balance** type of reports contains information about the actual state of the credit balances of the selected users (or members of the selected group). The data are ordered by user name.
- The **Credit operations** type of reports shows all changes of credit balance of the selected users (or members of the selected group) over a defined time period. It also contains information about the person who either spent or recharged the credit, the type of the recharge method and eventually about numbers of used credit vouchers. The data are ordered chronologically.

Credit a	nd quota – C	redit operati	ons					
Created	11/14/2017 5:33:10	AM						<b>YQ</b>
Period	11/08/2017 12:00:0	0 AM – 11/14/2017 11:5	9:59 PM					-
Full name	Group	Created	Credit charge	Credit balance	Operation type	Charge method	Charger name	Voucher code
▲ Eliot Kate								
Eliot Kate	Unclassified	11/13/2017 7:22:03 AM	-CZK14.00000	CZK10.00000	CREDIT	0	Administrator	0
Eliot Kate	Unclassified	11/13/2017 7:20:56 AM	CZK24.00000	CZK34.00000	CREDIT	WebPay	Eliot Kate	0

# 19 Quota

With the quota feature activated, you can set a limit to the usage of print related services. You can either limit the number of printed or scanned pages, or set an overall cost limit for all the services using prices from a price list. If the limit is close to be reached, the user or group receive an email with a warning and if the limit is reached or exceeded, they can be prevented from further printing and copying.

Each quota can monitor one of the following parameters:

- the total number of printed and copied pages
- the number of printed and copied color pages
- the total number of printed and copied monochrome pages
- the total number of scanned pages
- the overall cost of print services

Quotas are active permanently until disabled and they reset after the specified interval. Users can check their quota status on their web user interface and in the MyQ mobile application. If a printing device is equipped with an embedded terminal, users can see the current percentage of their quota status there.

The quota on overall cost of print services requires setting a price list with prices of particular functions (print/copy/scan – B&W/color) on each printer. Both types of quota (the quota on the number of pages and the quota on the overall cost) require using the Job parser to get the print job metadata (number of pages, color etc.). For information about how to set the prices and how to activate the parser, see Price List and Jobs.

# 19.1 Activation and general setup

You can enable the Quota feature by selecting the **Enable** quota option at the top of the **Quota** settings tab (**MyQ, Settings, Quota**). Each quota can then be individually enabled or disabled on its properties panel.

On this tab, under **Quota warning email**, you can type the subject and the body of the email that is sent after reaching the preset warning (e. g. 80% of the quota) and, under **Quota exceeded email**, the subject and the body of the email that is sent when the limit of a user or group is reached or exceeded.

<b>≡ MYQ</b> <sub>G Home</sub>	1 Settings: Quota
Settings	Accounting 🕨 🦉 Quota
E License Server type	▼ General
Seneral Personalization Task Scheduler	Enabled:      If this feature is enabled, it is recommended to enable the Job parser on the Settings > Jobs page     Quota warning email
<ul> <li>₽ Network</li> <li>▲ Authentication servers</li> <li>♥ SNMP</li> </ul>	%entity% = user/group name, %quota% = quota name, %level% = current quota level, %admin% = admin email         Subject:       MyQ: "%entity%": quota "%quota%" warning         Message:       Hello,
<ul> <li>Printers &amp; Terminals</li> <li>Configuration Profiles</li> <li>Printer Discovery</li> <li>Terminal Actions</li> <li>Events</li> <li>Event Actions</li> </ul>	Quota "%quota%" has reached %level%%.         Your MyQ         Please contact the administrator at %admin% in case of further requests <hr/>
<ul> <li>Users</li> <li>Policies</li> <li>User Synchronization</li> <li>User Authentication</li> <li>Rights</li> </ul>	%entity% = user/group name, %quota% = quota name, %admin% = admin email         Subject:       MyQ: %entity%: quota "%quota%" is reached         Message:       Hello,         Quota "%quota%" is REACHED.         Your MyQ         Please contact the administrator at %admin% in case of further requests
Accounting Credit Uota Projects Price lists	Revert values     Save     Cancel
Jobs Scanning & OCR Code Books	• Add quota

# 19.2 Creating quotas

To add a new quota:

1. On the bar in the bottom section of the **Quota** settings tab, click **+Add quota**. The new quota properties panel opens on the right side of the screen.

🛨 Add quota	🖉 Edit 🛛 🛛 🎜 Refresh		
Enabled Title	Who to monitor	Disable operations	Period
<ul> <li>Print</li> </ul>	😤 Group_1 (Accounting Group)	Print, Color print	Month
<ul> <li>Scan</li> </ul>	Result of the second se	Scan	Day

2. On the panel, enter the quota name, set its parameters, and then click **Save**.

The new quota is enabled and appears on the **Quota** overview list (**MyQ, Settings, Quota**).

## 19.2.1 Combining quotas

Quotas are independent of each other. Therefore, it is always the most strict quota that applies to a particular user or group.

For example: There are two quotas applied to a user. Both of them disable printing after a certain amount of printed pages – one after five printed pages and the other

after ten printed pages. After the users prints five pages, the lower quota applies and they cannot print. The quota can be boosted, allowing the user to print more pages. If they print five more pages, the higher quota applies.

# 19.3 Editing quotas

The quota properties panel opens immediately after a new quota is created. To open an already existing quota, double-click on it on the list on the **Quota** main tab (**MyQ**, **Quota**). After you set the properties, click **Save** to submit the changes.

Each quota has the following set of properties:

#### Basic settings: enabling and naming the quota

- Each quota is enabled by default. To disable or re-enable it, click the **Enabled** button.
- Enter the name in the **Title** text box.

#### Time period

- In the **Period** list, select the reset period of the quota (*Day, Week, Month, Quarter, Half year, Year, Last X days*). The default period is *Month*. The *Last X days* period counts the number of pages or the overall cost over the last X days. For example, if the quota is 10 pages over three days and the user printed 5 pages the day before yesterday and two pages yesterday, they can print up to three pages today.
- In the **Period start** list, select the date when the period starts for the *Month*, *Quarter*, *Half year* and *Year* **Period**, day of the week for the *Week* **Period** or the number of days for the *Last X days* **Period**.
  - If you choose the *Day* **Period**, you must also set a time at the **Reset quota at** field.

#### Monitored users or groups

You have to select from three options regarding the quota scope. It can apply to one user, to all members of one group, or to an accounting group/cost center.

- To select a user the quota applies to, select the **User** option, and then choose the user from the list.
- To select a group and apply the quota to all its members, select the **Members** of a group option, and choose the group from the list. This way, the quota applies to each user independently; If the limit is ten pages, every user can print ten pages.
- To select an accounting group or a cost center the quota applies to, select the **Accounting Group** or **Cost center** option, and then choose the accounting group or cost center group from the list (this option depends on the Accounting settings; the option selected there is displayed in Quota). This way, every member contributes to the total. If the limit is ten pages and one member prints seven pages, there are only three pages remaining for the group.

#### **Monitored value**

- If you select *Cost* as the **Monitored value**, the quota is counted in amount of money spent.
  - Set the quota cost Limit
- If you select *Pages* as the **Monitored value**, the quota is counted in the amount of printed, copied and/or scanned pages.
  - Set the **Print&Copy total**, **Print&Copy color**, **Print&Copy mono** (supported by terminals 8.1 or newer) and **Scan total** in pages.

#### Actions taken when the warning level is reached

- Enter the warning level (in %) in the **Warning level** text box. After the percentage of the overall limit is reached, a warning email is sent to the user.
- If you want someone else to be notified (for example the user's manager) once the warning level is reached as well, select or enter the users or email accounts in the **Send a notification to** combo box.

#### Actions taken when the quota is reached

- You can disable one or more operations after the quota is reached or exceeded.
  - If the **Monitored value** is *Cost*, select them under **Disable operations**. The options are **Print**, **Copy**, **Color print** (on terminals 8.1 or newer), **Color copy** (on terminals 8.1 or newer), and **Scan**.
  - If the **Monitored value** is *Pages*, mark the **Disable operation** checkbox and the operation that has reached the limit will be disabled.
- Mark the **Terminate the current job when reached** checkbox if you want to interrupt the current job when the quota is reached. If both **Disable operation** and **Terminate the current job when reached** are checked, the job will be interrupted when the quota is reached and the user will be redirected to the MyQ

home screen. If **Disable operation** is checked and **Terminate the current job** when reached is not, the current job will be finished and the user will be redirected to the MyQ home screen.

- The action is not supported by scan quota
- If you want someone else to be notified (for example the user's manager) after the quota is reached as well, select or enter the users or email accounts in the **Send a notification to** combo box.

## 19.4 Boosting quotas

In situations when a user or a group of users have reached their quota and urgently need to print, you can boost the quota by a specific number of pages or by a specific amount. Quotas can be boosted on two tabs of the MyQ Web Interface: the **Quota Boosts** main tab and the **Users** main tab. Records of the boosted quotas appear on the boost quota records list on the **Quota Boosts** main tab.

## 19.4.1 Boosting quotas on the Quota Boosts main tab

On the MyQ Web Interface, go to MyQ, Quota Boosts. To boost a quota here:

1. On the bar at the top of the tab, click **+Add**. The Boost quota dialog box appears.

≡ myę	Home	Quota Boosts				~	0
Quota Boosts			(+) A	Add	🛛 Delete   🖻 Tools 🕶	$\sub$ Refre	esh

2. Select the **User or group** and the **Boost date**, and then click **OK**. The Boost quota dialog box extends – more sections are displayed. The first of the new sections shows the current availability of operations and the rest show the quotas applied to the user (or groups of users).

Boost quot	a	•			·	×
	User or group: *	<b>유 G</b>	roup_2			•
	Boost date: *	02/08	/2022	÷	05:50 PM	Ŀ
Scan		current	period w	ill be bo	e date, the quota posted. To boost r a later date.	
	Quota ba	alance:	5 remai Boost k		0 of 5 used) 10.00	
	Re	newal:	in 6 ho	urs 10 ı	minutes	
	<b>~</b> (	ж	Ca	ncel		
Fields marked by	y * are mandatory.					

3. Enter the number of pages or the amount of money to the **Boost By** text box in the particular quotas sections (each quota has to be boosted separately), and then click **OK**.

# 19.4.2 Boosting quota of a particular user on the Users main tab

On the MyQ Web Interface, go to MyQ, Users. To boost a quota here:

- 1. On the tab, select the user, click **Actions**, and then click **Boost quota** in the Actions drop-down. (Or right-click the user, and then click **Boost quota** on the shortcut menu.) The Boost quota dialog box appears with the user selected in the **User or group** drop-down.
- 2. Enter the number of pages or the amount of money to the **Boost By** text box in the particular quota sections (each quota has to be boosted separately), and then click **OK**.

The administrator can also release blocked quota for a user by right-clicking on the user and selecting **Release blocked quota**.

Q All users		
User name	Full name	Emai
*admin	Administrator	
*api	API	
Carol Kai	Carol Kai	~
*fax	Fax Edit	
*system	System Recharge Credit	
username000001	User Full N. Reset credit	
username000002	User Full N. Release blocked of	credit
username000003	User Full N. 🏽 Boost quota	
username000004	User Full N Release blocked o	quota
username000005	User Full N.	
username000006	User Full N Generate PIN	
username000007	User Full N Remove from gro	nun
username000008	User Full N. Show effective po	
username000009	User Full N	
username000010	User Full N	
username000011	Vser Full N Undelete	Delete
username000012	User Full N Anonymize	
username000013	User Full Name	

# 20 Projects

With the project accounting feature activated, users can assign print, copy, and scan jobs to particular projects and consequently distribute the print cost among the projects and charge it appropriately. Project accounting can also be used as another independent level of internal accounting in addition to devices, users, and groups. Projects can be manually created on the MyQ web interface or imported from a CSV file. They can be assigned to print jobs in the MyQ Desktop Client pop-up window, on the MyQ web interface, on an embedded terminal, on a touch panel of a HW terminal, or in the MyQ X Mobile Client app.

			⊗ (
Q All projects		🕣 Add project 🛛 🖗 Actions 💌 🛛 😁 Tools 💌 🎵 Sear	ch 🤇
Status Code	Name	Description	
• 0	No Project	Enable operations without a project	
• 3	HQ		
• 2	HR		
• 1	Payroll		
	Status         Code           •         0           •         3           •         2	Status         Code         Name           •         0         No Project           •         3         HQ           •         2         HR	All projects     Add project      Add project      Add project      Scar       Status     Code     Name <ul> <li>Description</li> <li>0</li> <li>No Project</li> <li>Enable operations without a project</li> <li>3</li> <li>HQ</li> <li>2</li> <li>HR</li> <li>Code</li> <li>Add project</li> <li>Add project</li> <li>Add project</li> <li>Scar</li> <li>Scar</li> <li>Add project</li> <li>No Project</li> <li>Enable operations without a project</li> <li>No</li> <li>R</li> <li>Add project</li> <li>No</li> <li>Add project</li> <li>Add pro</li></ul>

# 20.1 Projects activation and setup

On the **Projects** settings tab (**MyQ, Settings, Projects**), you can enable, or disable projects. Furthermore, you can change the global settings of the projects feature there.

Select the **Enabled** option to globally activate project accounting.

**Scan without project**: Users scan directly when this option is selected. They have to select a project when the option is not selected.

E MYQ & Home	Settings: Projects
% Settings	Accounting 🕨 🛅 Projects
C/ User Authentication	
🕜 Rights	▼ General
B Accounting	Enabled:
🗂 Credit	
Quota	Scan without project:
Projects	Save Cancel
Price lists	Fields marked by * are mandatory.

# 20.2 Creating projects

To add new projects to MyQ, go to MyQ, Projects and:

1. On the bar at the top of the **Projects** main tab, click **+Add project**. The new project properties panel opens on the right side of the screen.

Home Projects				<del>ଡ</del> ଡ
Projects Search Q	○ All projects		📀 Add project 🖗 Actions 🗸 🖙 Tools 👻 🍃 Sear	ch Q
▼ Q Searches	Status Code	Name	Description	
Q All projects	• 0	No Project	Enable operations without a project	
Q Without group	• 3	HQ		
Project groups	• 2	HR		
	• 1	Payroll		

2. On the **General** tab, enter the project **Name**, a unique project **Code**, optionally its **Description**, and then click **Save**.

🗋 Project	×
General Ri	ghts
Name: *	Engineering
Code: *	4
	0-9 a-z A-Z _ / \ -
Description:	Project for the Engineering team
	Save Cancel
Fields marked b	by * are mandatory.

3. Click on the **Rights** tab, to manage user rights to the project (all users have rights to a project by default). On the bar at the top of the **Rights** tab, click **+Add User**. The Select user or group dialog box appears, where you can select the user (or group of users) that you want to provide with rights to the project, and then click **OK**. To remove the rights from a user, select the user and click the remove button (**X**). The user (or group of users) disappears from the **Rights** list.

Project	×
General Rights	
$(  Add User \mid \mathscr{P} \mid  imes \mid \mathbb{C}$	Search Q
Name	Rights
😤 All users	🕜 Use project

# 20.3 Project management

After the projects are created, you can see them listed on the **Projects** main tab. Using the buttons on the bar at the top of the tab, you can add new projects, edit current projects, import projects from CSV files and display/hide deleted projects.

## 20.3.1 Restoring deleted projects

1. Click **Tools** and select **Show deleted** to display any deleted projects.

🕀 Add project	🖗 Actions 💌	🖻 Tools 🔻	$\mathbb{C}$	Search	٩
		Import	t		
		Show of	deleted	<b>1</b>	

2. Select the project, click **Actions**, and then click **Undelete** in the Actions dropdown (or right-click and select **Undelete**).

Q All projects		🕀 Add project		📔 🖻 Tools 🔻	C Search	Q
Status Code	Name		🖉 Edit		▲ De	scriptio
• 0	No Project		🕤 Undelete	•	En	able oj
0 4	Engineering		$\times$ Delete	Delete	Pr	oject fo
• 3	НО					

# 20.3.2 Managing project groups

For bigger companies, it is easier to manage projects in groups on e.g. a functional or geographical level. The maximum is five levels deep. Rights set on the group level will automatically be inherited by sub-groups and/or the projects inside these groups. It is then possible to set specific rights to sub-groups or specific projects. After saving these rights they will not be overwritten by the default group rights.

#### **Creating groups**

- 1. Right-click **Project groups** and select **New group**.
- 2. Set the **Name** on the **General** tab of the project group in the right pane.
- 3. Click the **Rights** tab to add or delete users from the project group.
- 4. Click **Save**. The project group will be visible in the left pane.

#### Adding a project to a group

- 1. Select the group that you want to add a project to.
- 2. Click **New project** on the menu bar.
- 3. Enter the project details.
- 4. Click Save. The Project group Code will be upped by one.

# 20.4 Importing projects from CSV files

Another option of adding projects to MyQ is to import them from CSV files. This can be done manually and also as a scheduled task.

- The manual import is described in Manually importing projects.
- For information on how to set up the scheduled task, see Setting up the Project synchronization scheduled task.
- You can find the required syntax of the CSV file in Syntax of the projects' CSV file.

You can import projects with a hierarchy.

Within the CSV import, new projects are added and existing projects are updated. Projects already present in MyQ that are not listed in the CSV file are left untouched. Each project is recognized by the value of its code, and updated only if the CSV file contains a row with the same code.

#### 20.4.1 Manually importing projects

On the bar at the top of the **Projects** main tab, click **Tools**, and select **Import**. The Import dialog box appears.

🕂 Add project	🖗 Actions 💌	🖻 Tools 🔻 💭 Search	2
		Import Show deleted	
		V Show deleted	

In the dialog box, click **Choose File** and select the CSV file, and then click **OK**. After the import is done, imported projects are listed on the **Projects** main tab.

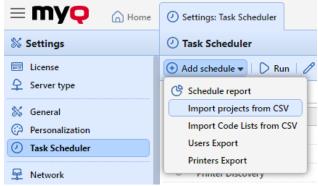
Import		×
CSV file:	Choose File No file chosen	
	V OK Cancel	

In addition, an information message appears at the top of the tab. By clicking log for details, you can display the import log.

Any errors occurring during the import can be related to incorrect syntax or nonexisting users or group of users listed in the CSV file.

### 20.4.2 Setting up the Project synchronization scheduled task

 On the Task Scheduler settings tab, click +Add schedule, and then Import projects from CSV. The properties panel of the new synchronization opens on the right side of the screen.



- 2. On the panel, set up the schedule, as described in Task Scheduler.
- 3. In the **File** section, add the path to the **CSV file** (the file should be stored on the MyQ server).

Project Import Synch		×
General Rights		
Enabled: * Name: * Description:	Project Import Synch	
▶ Schedule		
Notification		
▼ File		
CSV file: *	%app%\Data\Import\Projects.csv Parameters: %app%	
	✓ Save Cancel	
Fields marked by * are mandate	ory.	

4. Click Save.

## 20.4.3 Syntax of the projects' CSV file

Each row must consist of six columns, separated by the delimiter set on the **General** settings tab, under **Column delimiter in CSV**. The file must contain a header row, otherwise an error occurs and the projects will not be imported. The order of the columns is irrelevant; each column is identified by its name in the header, which must always be in English, regardless of the language setting in MyQ.

#### Values:

- active:
  - 1=project is added to MyQ
  - 0 =project is not added to MyQ
- code: unique code of the project
- name: name of the project
- **groups:** the path of the project in the hierarchy. Levels must be separated by the pipe character (|). If the column is empty, the project is created in or moved to the root of the hierarchy.
- **description:** internal description of the project
- **users** the users or groups of users allowed to use the project. Multiple entries should be separated by commas (,).

active	code	name	groups	description	users
1	300	Project1	parent child	Optional description	"All users"
0	400	Project 2			

# 20.5 Assigning projects to print jobs

If project accounting is enabled, unassigned print jobs are paused and have to be assigned to a project before they can be printed. They are displayed on the **Jobs** main tab, under **Paused**. You can assign them on the **Jobs** main tab, in the MyQ Desktop Client pop-up window, or on an embedded terminal.

📔 Jobs	() Paused				R. Preview	Actions	👻 🗎 🖻 Tools -	Refresh	Search Q
🔻 🚞 All jobs	Status	🔂   🗟   Name	Size Owner	Received  Queue	Computer	B&W total	Color total	Copies	Printed date
C Ready	Today								
0 Paused	Paused	Test Page	58.62 KB John Doe	10/02/2022 09:56:15 myq	VM695476377	0	1	1	-
C Printed	Paused	Test Page	58.62 KB John Doe	10/02/2022 09:56:14 myq	VM695476377	0	1	1	-
S Favorite	Paused	Test Page	58.62 KB John Doe	10/02/2022 09:55:59 myq	VM695476377	0	1	1	-
A Failed jobs									
Q AII									

Users who want to print an unassigned job on an embedded terminal have to select one of their projects (projects they have rights to) or eventually select the **Without project** option there (if they are allowed to print without projects). The same applies to scanning and copying – users have to select one of the projects or the **Without project** option before opening the particular panel or performing a quick action. The exact behavior of project accounting on embedded terminals can vary depending on vendor and device model. See the particular embedded terminal manual for further information.

- How to assign projects in MyQ Desktop Client
- How to assign projects on the Jobs main tab

# 20.5.1 Assigning projects in MyQ Desktop Client

This option is available on computers with either Windows or macOS. It requires the MyQ Desktop Client application running on the computer where the print job is sent from.

MyQ Desktop Client is running in the background and, unless Project accounting or any other features of the application are active for the logged user, all print jobs are sent to MyQ without any intervention. Once the user has rights to more than one projects, all the jobs that they send are paused and the MyQ Desktop Client pop-up window opens to offer the available projects to the user. If only one project is available to the user, it is automatically assigned, and the job is sent to the server.

The user can assign the job to an available project and print within that project. If printing without a project is allowed in MyQ, the user can select the **No project** option; otherwise they have to select one of the available projects. If there are more jobs waiting in the queue, the user can check the ones to be printed to a particular project and jobs for another project can be printed in the next step.

For information about MyQ Desktop Client, including installation, setup, and optional features of the application, see the *MyQ Desktop Client for Windows* or *macOS* manuals.

## 20.5.2 Assigning Projects on the Jobs main tab

To assign a project to a print job:

- 1. On the **Paused** list on the **Jobs** main tab, double-click the print job that you want to assign the project to. The print properties panel opens on the right side of the screen.
- 2. On the panel, select the **Project** that you want to assign to the job, and then click **Save**.

Test Page ×		
General		
Name:	Test Page	
Owner: *	Sohn Doe	•
Queue:	myq	
Project:	P1 - Project 1	•

# 21 Price List

On the **Price lists** settings tab, you can create price lists and attach them to configuration profiles. Price lists are used to assess the price of each printing device operation. That is necessary for monetary accounting and MyQ advanced features such as credit accounting and monetary quotas.

You can also set discounts or increase price of print, copy, scan and fax services for particular users and groups.

= <b>MYQ</b> $\bigcirc$ Home	Settings: Price lists
🐰 Settings	Accounting 🕨 📸 Price lists
C User Authentication	$\odot$ Add price list $\mid \mathscr{P}$ Edit $\mid   imes  \mid  \mathcal{C}$
Accounting	Status Name   Printers
👼 Credit	Active A     0
③ Quota	Active B     0
Projects	Active C 0
👩 Price lists	

To open the **Price lists** settings tab, go to **MyQ**, **Settings**, **Price lists**.

# 21.1 Adding price lists

- 1. On the bar at the top of the **Price lists** settings tab, click **+Add price list**. The new price list properties panel opens on the right side of the screen.
- 2. On the panel, enter the price list name.
- 3. Set up the price list.
- 4. Click Save.

# 21.2 Editing price lists

On the properties panel of the price list, you can rename the price list, define prices of print, copy, scan and fax services and attach the price list to printing devices. To open the panel, double-click the price list on the list of price lists on the **Price lists** settings tab.

₫ A		)
General Configuration P	rofiles	
	Name: * A	
User Administrator		
Print		
▶ Сору		
▶ Scan		
Paper format		
▶ Fax		
	Save Cance	I
ields marked by * are mandat	Nrv.	

## 21.2.1 Setting prices of print, copy, scan and fax services

On the **General** tab of the price list's properties panel, you can set prices of print, copy, scan and fax services. There are two sub-tabs: the **User** sub-tab, where you set prices for MyQ users, and the **Administrator** sub-tab, where you set prices for the MyQ administrator.

- **Print** In this section, you can set the price per printed page for monochrome and full-color print. Some printing devices allow pricing according to coverage of paper. You can set prices for three states of coverage: **Low**, **Medium** and **High**.
- Copy In this section, you can set the price per copied page for monochrome, full color and single color copying. Some printing devices allow pricing by coverage of paper. You can set prices for three states of coverage: Low, Medium and High.
- Scan In this section, you can set the price per scanned page.
- **Paper format** In this section, you can set the price per sheet for different paper formats.
- **Fax** In this section, you can set the price per printed faxed page.

Some printing devices lack the counters necessary for obtaining information about some parameters, for example information about paper size. Those parameters are not counted in the final price of jobs that are carried out on these machines.

Whenever the price list is updated (its parameters values are changed and the price list is saved), a new price list is created. Pages printed with the previous version of the price list are counted according to the old settings.

## 21.2.2 Attaching price lists to printing devices

On the Price list properties panel

- 1. On the list of price lists on the **Price List** settings tab, double-click the price list. The new price list properties panel opens on the right side of the window.
- 2. Go to the **Configuration Profiles** tab.
- 3. Click +Add. The Select Configuration Profile window opens.
- 4. In the dialog box, select the configuration profile that you want to attach the price list to.
- 5. Click **OK**. The configuration profile appears on the printing devices list on the **Printers** tab.

🗟 A		>
General	Configuration Profiles	
(+) Add	Remove	
Name		
No term	inal	

You can also attach a price list to a configuration profile when you go to **Settings**, **Configuration Profiles**. In the overview, double-click a profile and change the **Price List** in the right pane on the window.

You cannot attach more than one price lists to a single configuration profile. If you add a price list to a configuration profile that already has a different price list attached to it, the old price list is replaced by the new one.

### 21.3 Discounts

The prices set in price lists are applied to all users and groups without any distinction. To distinguish between particular users and groups, you can provide the users and groups with discounts, or increase the prices in the list for them.

The discounts are set in percent and are applied to all price lists. Within the discount, you can set a particular value for each print, copy, scan or fax price lists' item. The price of an action is increased by setting a negative discount for the item, for example a *-15%* discount.

The **Discounts** section, where the discounts are set, is also part of the **Price lists** settings tab.

Ø Discounts	
Add discount	$\downarrow$   $\times$   $\mathcal{G}$
User or group	Discount
戶 Group_1	10.00%: PM, Scan
윢 Group_2	50.00%: PC, CC 20.00%: Scan
Carol Kai	10.00%: PM, CM, A5, Folio, Letter, Fax 50.00%: PC, CC 30.00%: Scan 20.00%: A4, CC1

### 21.3.1 Creating a new discount

- 1. Click **+Add discount** at the upper-left corner of the **Discounts** section. The new discount properties panel appears on the right side of the screen.
- 2. Set the discount.
- 3. Click **OK** to save it.

## 21.3.2 Editing a discount

To open the editing options of a discount, double-click the discount (or right-click the discount, and then click **Edit** on the shortcut menu). The discount's properties panel appears on the right side of the screen.

For each discount, you need to set the user or group that it will be applied to, and the values of each item (such as B&W print or Full-color copy) of the discount in percent.

To increase the price of an item, set the discount to a negative number (such as -15%).

After the discount is set, click **OK** to save it.

🖗 Add discount	×	:
User or group: *		
▼ Print		
Black & White: *	0.00 % (PM)	
Full-color: *	0.00 % (PC)	
Full-color by coverage		
▶ Сору		
Full-color by coverage		
▶ Scan		
▶ Fax		ļ
Paper format		
	V OK Cancel	
Fields marked by * are mandat	tory.	

# 21.3.3 Deleting a discount

- 1. Select the discount.
- 2. Click **X**.

# 22 External Systems

In MyQ, Settings, External Systems, there are two sections:

- External Systems, and
- **REST API applications**

The External Systems section is used for:

- setting up Microsoft Exchange Online
- setting up Gmail (with OAuth2)
- setting up SharePoint Online
- setting up Amazon S3
- setting up OneDrive Business
- setting up Microsoft Universal Print
- the MyQ and ScannerVision integration (embedded terminals and a MyQ Ultimate license are required; you can find further details in MyQ Smart Workflows and in MyQ Embedded terminal manuals).

In the **REST API applications** section you can add applications to MyQ by clicking **+Add** and filling in the **Title** and **Scope**. The **Client ID** and **Secret** fields should be used for the application's configuration.

# 22.1 Microsoft Exchange Online Setup

It is first needed to set up Microsoft Exchange Online in Microsoft Azure, and then configure it in MyQ.

## 22.1.1 Microsoft Exchange Online setup in Microsoft Azure

1. Log in to the Microsoft Azure portal and go to App registrations.

🔎 App Regi				×
Services	See all	Marketplace		
📙 App registrations			No results were found.	

+ New registration 🜐 Endpoints 🧷 Troubleshooting 🞍 Download (Preview) 🛛 🛇 Got feedback?

- 3. Create a **multitenant app**:
  - a. **Name** The name for this application (this can be changed later). For example, *MS Exchange Online*. It is important to use the same name as the one used in MyQ under External Systems
  - b. **Supported account types** Who can use this application or access this API? Select the *Accounts in any organizational directory (Any Azure AD directory - Multitenant)* option.
  - c. **Redirect URI (optional)** The authentication response is returned to this URI after successfully authenticating the user. Select the *Public client/native*

#### (mobile&desktop) option from the drop-down and fill in https://

login.microsoftonline.com/common/oauth2/nativeclient as the redirect URI. d. Click **Register**.

#### Register an application

* Name
The user-facing display name for this application (this can be changed later).
MS Exchange Online 🗸
Supported account types
Who can use this application or access this API?
Accounts in this organizational directory only (
<ul> <li>Accounts in any organizational directory (Any Azure AD directory - Multitenant)</li> </ul>
Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
O Personal Microsoft accounts only
Help me choose
Redirect URI (optional)
We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.
Public client/native (mobile 🗸 https://login.microsoftonline.com/common/oauth2/nativeclient 🗸
Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from Enterprise application
By proceeding, you agree to the Microsoft Platform Policies 🗗
Register
new app overview page opens. Copy the <b>Application (client) ID</b> and the

	🛛 📋 Delete   🕀 Endpoint	s 💀 Preview features			
🗮 Overview	→ Essentials				
Quickstart			Copy to clipboard		
Integration assistant	Display name	: MS Exchange Online	copy to cipudatu	Client credentials	: Add a certificate or secret
nitegration assistant	Application (client) ID	anind17c-et82-4ed4-bile6-	-7714(d)55618 🗅	Redirect URIs	: Add a Redirect URI
Manage	Object ID	: 199767e9-1214-4040 0374	visJitsb7fea25	Application ID URI	: Add an Application ID URI
Branding	Directory (tenant) ID	: h19336e4-8029-4260-a463	s-423372e49cd	Managed application in I	: MS Exchange Online
Authentication	Supported account type	s : Multiple organizations			

5. On the left-hand menu, click **Manifest** and modify and **Save** the JSON with the following:

```
"allowPublicClient": true,
    "replyUrlsWithType": [
        {
            "url": "https://login.microsoftonline.com/common/oauth2/
nativeclient",
            "type": "InstalledClient"
        }
    ],
```

```
"requiredResourceAccess": [
    {
        "resourceAppId": "00000003-0000-0000-c000-00000000000",
        "resourceAccess": [
            {
                "id": "258f6531-6087-4cc4-bb90-092c5fb3ed3f",
                "type": "Scope"
            },
            {
                "id": "d7b7f2d9-0f45-4ea1-9d42-e50810c06991",
                "type": "Scope"
            },
            {
                "id": "652390e4-393a-48de-9484-05f9b1212954",
                "type": "Scope"
            },
            {
                "id": "7427e0e9-2fba-42fe-b0c0-848c9e6a8182",
                "type": "Scope"
            }
        ]
    }
],
```

6. On the left-hand menu, click **Authentication**. In Advanced settings, under Allow public client flows, select **Yes** next to Enable the following mobile and desktop flows, and then click **Save** at the top.

Search (Ctrl+/) «	A <sup>2</sup> Got feedback?
Overview	Supported account types
🗳 Quickstart	Who can use this application or access this API?
🚀 Integration assistant	Accounts in this organizational directory only ( only - Single tenant)
Manage	<ul> <li>Accounts in any organizational directory (Any Azure AD directory - Multitenant)</li> </ul>
Branding & properties	Help me decide
Authentication	Advanced settings
📍 Certificates & secrets	Allow public client flows $①$
Token configuration	
API permissions	Enable the following mobile and desktop flows:
🙆 Expose an API	<ul> <li>App collects plaintext password (Resource Owner Password Credential Flow) Learn more No keyboard (Device Code Flow) Learn more </li> </ul>
App roles	<ul> <li>SSO for domain-joined Windows (Windows Integrated Auth Flow) Learn more 27</li> </ul>
A Owners	
Roles and administrators	Save Discard

7. On the left-hand menu, click **API permissions** and add the additional permissions required for the correct functionality, described in the table below.

Search (Ctrl+/)	- C	🕐 Refresh 🛛 🗢 Got feedba	ack?			
Overview		Configured permissions				
Quickstart		5 1	I ADIs when they	are granted permissions by users/admins as part of the co	neant process. The list of configured permission	should include
Integration assistant				ore about permissions and consent	nan process inclusion of complete permission	II KINOT
lanage		$+$ Add a permission $\checkmark$ Gra	nt admin conserr	t for		
Branding		API / Permissions name	Туре	Description	Admin consent requ Status	
Authentication		Microsoft Graph (5)				
Autometrosecon						
Certificates & secrets		IMAP.AccessAsUser.All	Delegated	Read and write access to mailboxes via IMAP.	No	
Certificates & secrets		IMAP.AccessAsUser.All offline_access	Delegated Delegated	Read and write access to mailboxes via IMAP. Maintain access to data you have given it access to	No	
Certificates & secrets Token configuration						
Certificates & secrets		offline_access	Delegated	Maintain access to data you have given it access to	No	

Scope ID	Description
7427e0e9-2fba-42fe- b0c0-848c9e6a8182	Microsoft Graph: <b>offline_access</b> Allows the app to see and update the data you gave it access to, even when you are not currently using the app. This does not give the app any additional permissions.
e 1 fe 6 dd 8- ba 31 - 4 d 61 - 89 e 7 - 88 6 39 da 4 6 8 3 d	Microsoft Graph: <b>User.Read</b> Sign in and read user profile
652390e4-393a-48de-9484-05f9b 1212954	Microsoft Graph: <b>IMAP.AccessAsUser.All</b> Allows the app to read, update, create and delete email in your mailbox. Does not include permission to send mail.
d7b7f2d9-0f45-4ea1-9d42- e50810c06991	Microsoft Graph: <b>POP.AccessAsUser.All</b> Allows the app to read, update, create and delete email in your mailbox. Does not include permission to send mail.
258f6531-6087-4cc4- bb90-092c5fb3ed3f	Microsoft Graph: <b>SMTP.Send</b> Allows the app to send emails on your behalf from your mailbox.

# 22.1.2 Microsoft Exchange Online setup in MyQ

- 1. Log in to the MyQ web administrator interface, and go to **MyQ**, **Settings**, **External Systems**.
- 2. In the External Systems section, click **+Add** and select *Microsoft Exchange Online* from the list.

	Settings: External Systems
Settings	⇐ External Systems
Scanning & OCR	🕒 Add 🔻 🖗 Actions 👻   🃿 R
Code Books	Microsoft Exchange Online
C Reports	SharePoint Online Amazon S3
⇐ External Systems	OneDrive Business
🖉 Log & Audit	🗧 🧲 Microsoft Universal Print

3. In the pop-up window, fill in the required fields:

Microsoft Exchange Online						
Title: *	MS Exchange Online					
Client ID: *	Application (client) ID from MS Azure					
Tenant ID: *	Directory (tenant) ID from MS Azure					
	V OK Cancel					
Fields marked by taxa mandat	0.01					

- a. **Title** add the name you chose during App registration in MS Azure; for example, *MS Exchange Online*.
- b. **Client ID** the **Application (client) ID** you copied during the MS Azure setup.
- c. **Tenant ID** the **Directory (tenant) ID** you copied during the MS Azure setup.
- 4. Click **OK**.
- After setting up the external system in MyQ, you are requested to confirm a code through the Microsoft website (https://microsoft.com/devicelogin). The code you need to confirm is shown in the pop-up window, just below the link to the Microsoft website. There is timeout for confirming the code (usually it is 15 minutes).

Microsoft Exchange Online				
j	To finish the connection of MyQ and Azure go to the following URL and paste there the code below.			
	https://microsoft.com/devicelogin Code: D <b>ata State</b>			
	✓ ОК			

The email functionality will not work until the confirmation is successfully completed.

**This confirmation must be done with the Microsoft account that owns the email box (email address), which is used to connect to the exchange (Sender email** in the MyQ, Settings, **Network** tab).

For example, if you use the sender email "print@somedomain.com", then you need to authenticate on the Microsoft website as this user during this step.

Microsoft Exchange Online is now connected to MyQ and is ready to be used in the **Network** settings tab, as an Outgoing SMTP server, and in the **Jobs** settings tab, in Jobs via Email as a POP3 or IMAP server.

# 22.2 Gmail with OAuth2 setup

It is first needed to set up Gmail with OAuth2 in Google Cloud Platform, and then configure it in MyQ.

## 22.2.1 Gmail with OAuth2 setup in Google Cloud Platform

1. Log in to Google Cloud Platform and click on **Select a project** to create a new project.

≡	Google Cloud Platform	Select a project	Select a project
<b>^</b>	Home	Dashboa	
()	Recent		Q. Search projects and folders

2. Add **Project name**, optionally add a location, and click **Create**.

	 rol		
		ject	

Project name * MyQ Test		0
Project ID: myq-test-	It cannot be changed later.	EDIT
Location * No organization		BROWSE
Parent organization or folder	r	
CREATE		

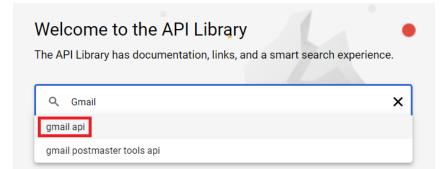
3. On the left-side menu, hover over **APIs & Services** and click on **Enabled APIs & services**.

API	APIs & Services	>	Enabled APIs & services
Ť	Support	>	Library
θ	IAM & Admin	>	Credentials
•			OAuth consent screen
	Getting started		Domain verification
ft,	Compliance		Page usage agreements

4. Click on **+ENABLE APIS AND SERVICES** to add the Gmail API to your project.

API	APIs & Services	APIs & Services	+ ENABLE APIS AND SERVICES
٠	Enabled APIs & services		

5. Type Gmail in the search field and click on the Gmail API result.



#### 6. Click **Enable** under the Gmail API.

≡	Google Cloud	Platform 💲 MyQ Test 👻	
÷			
		Gmail API Google Enterprise API	
		Flexible, RESTful access to the user's inb	ОХ
		ENABLE TRY THIS API	

7. Once enabled, you are prompted to create credentials in order to use the Gmail API. Click on **Create Credentials** to proceed.

= Google Cloud Platform	Search Products, resources, docs (/)	
<b>RPI</b> APIs & Services	To use this API, you may need credentials. Click 'CREATE CREDENTIALS' to get started.	CREATE CREDENTIALS
Enabled APIs & services	← API/Service Details ■ DISABLE API	
# Library		

8. In the create credentials window, in the Credential Type section, choose *Gmail API* in the **Select an API** field, choose *User data*, and click **Next**.

1	Credential Type
	Which API are you using?
	Different APIs use different auth platforms and some credentials can be restricted to only call certain APIs.
	Select an API *
	What data will you be accessing? *
	Different credentials are required to authorize access depending on the type of data that you request. Learn more
	User data Oata belonging to a Google user, like their email address or age. User consent required. This will create an OAuth client.
	O Application data Data belonging to your own application, such as your app's Cloud Firestore backend. This will create a service account.
	NEXT

9. In the Scopes section, click Add or Remove Scopes. In the Update selected scopes windows, type Gmail API in the search field, select the Gmail API .../ auth/gmail.modify scope and click Update.

Don't worry—you won't be charged if you run out of credits. <u>Learn more</u>			× Update selected scopes						
● MyQ Test 👻 Create credentials	Q Search Products, resources, doc	0	the API in		To add a missing scope to this screen, find and enable sted Scopes text box below. Refresh the page to see any				
Oredential Type		Ŧ	ilter Gma	II API S Enter property name or v	alue × Ø				
OAuth Consent Screen			Gmail API	https://mail.google.com/	Read, compose, send, and permanently delete all your email from Gmail				
			Gmail API	/auth/gmail.modify	Read, compose, and send emails from your Gmail account				
3 Scopes (optional)			Gmail API	/auth/gmail.compose	Manage drafts and send emails				
You can also cho	ose scopes when you register your app.		Gmail API	/auth/gmail.addons.current .action.compose	Manage drafts and send emails when you interact wit the add-on				
	Scopes express the permissions you request users to authorize for your app and allow your project to access specific types of private user data from their Google Account. Learn more		Gmail API	/auth/gmail.addons.current .message.action	View your email messages when you interact with the add-on				
			Gmail API	/auth/gmail.readonly	View your email messages and settings				
ADD OR REMOVE SCOPES			Gmail API	/auth/gmail.metadata	View your email message metadata such as labels an headers, but not the email body				

10. In the OAuth Client ID section, select *Web application* in the **Application type** field, and add a **Name** for your OAuth2 client.

# • OAuth Client ID

A client ID is used to identify a single app to Google's OAuth servers. If your app runs on multiple platforms, each will need its own client ID. See <u>Setting up OAuth</u> 2.0 for more information. Learn more about OAuth client types.

	ion type *
Name * MyQ	
	ne of your OAuth 2.0 client. This name is only used to identify the client in sole and will not be shown to end users.
0	The domains of the URIs you add below will be automatically added to your OAuth consent screen as authorized domains.

11. In the Authorized redirect URIs field, click Add URI and type https:// helper.myq.cz/. This step is mandatory for the authorization code to work. Authorized redirect URIs @

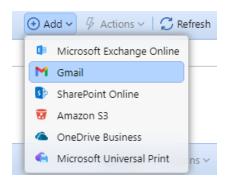
URIs 1 *	
https://helper.myq.cz/	

- 12. In the OAuth consent screen section, click **Add Users** and add the users' email addresses used for sending emails and/or receiving print jobs via email.
- 13. Once done with all the sections, click **Create**.
- 14. Navigate to APIs & Services, Credentials, to view your **Client ID** and **Client secret** that are needed for the setup in MyQ.

≡	Google Cloud Platform	💲 MyQ Test 👻	Q Search Products, resources	, docs (/)		)	<b>5</b> 1 9	
API	APIs & Services	← Client ID for Web applica	ation 🛨 DOWNLOAD JSON	C RESET SECRET	DELETE			
¢	Enabled APIs & services							
ш	Library	Name * MyQ			Client ID	8		ıt.
0+	Credentials	The name of your OAuth 2.0 client. The console and will not be shown to end	is name is only used to identify the client in t users.	he	Client secret	G	lal	
57	OAuth consent screen				Creation date	June 2, 2022 at 5:22:01 P	M GMT+2	

#### 22.2.2 Gmail setup in MyQ

- 1. Once you are finished in Google Cloud Platform, log in to the MyQ web administrator interface, and go to **MyQ**, **Settings**, **External Systems**.
- 2. In the External Systems section, click +Add and select Gmail.



#### 3. In the pop-up window, fill in the required fields, and click **OK**:

Gmail		×
Title: *	Gmail Test	
Client ID: *	85	
Security key: *		
	<b>OK</b> Cancel	
Fields marked by * are mandatory	<i>i.</i>	

- a. Title Add a title for your Gmail external system.
- b. Client ID Add the Client ID from the Google Cloud Platform credentials.
- c. **Security key** Add the **Client secret** from the Google Cloud Platform credentials.
- 4. After setting up the external system in MyQ, you are requested to authorize the connection by going to the provided URL, copying the generated code, pasting it in the **Authorization code** field, and clicking **OK**.

Gn	ail	×
	ish the connection with Gmail go to the following URL, authorize, copy rated code and paste it in input below.	
http	://accounts.google.com/s%3A%2F%2Fmail.google.com%2F	
	Authorization code: 4/	
	V OK Cancel	

Gmail is now connected to MyQ and is ready to be used in the **Network** settings tab as an Outgoing SMTP server, and in the **Jobs** settings tab, in Jobs via Email as a POP3 or IMAP server.

# 22.3 MyQ Smart Workflows

In order to create a MyQ Smart Workflow you need to install and configure the ScannerVision server to work with the MyQ server.

ScannerVision is a solution to automate document workflows, by capturing, processing, and storing scanned documents. This may include bar code reading, recognizing texts with the help of Optical Character Recognition (OCR), or converting documents to another format. Storage possibilities include a network folder, a database, cloud storage or storing as an e-mail attachment.

ScannerVision extends the features of MyQ by allowing the user to perform a customized and personalized scan workflow, and can utilize the user's credentials to access the storage where the scanned document will be placed, making not only secure printing possible, but also secure scanning.

#### 22.3.1 Requirements

Minimum requirements prior to the installation:

- MyQ Ultimate license (license for the MyQ server + license for ScannerVision)
- Two servers setup (one for the MyQ server, one for the ScannerVision server). In case of a MyQ Central Server setup, one server can be used.
- ScannerVision server 9.1+
  - EMB Kyocera 7.5.9
  - EMB Kyocera 8.1.1+
  - EMB HP Enterprise 8.1.1+ (supported in exploded mode as well)

#### **Additional Information**

Additional information about MyQ products can be found in the MyQ Docs portal:

- MyQ Embedded Terminal Manuals for branded embedded terminals information
- ScannerVision User Manual for advanced ScannerVision user information

#### 22.3.2 ScannerVision Server Installation

.NET Framework 4.8 has to be installed on the server before installing ScannerVision. If it is not installed, open Server Manager and install it.

To install the ScannerVision server:

- 1. Run the ScannerVision installer.
- 2. Follow the installation wizard's instructions and install the server.
- 3. Activate the product.

#### License check

Once the ScannerVision server is installed and activated, verify the license information:

- Open the ScannerVision Processing Engine user interface application.
- On the top menu, click **Help, License**.

A ScannerVision I	Processing Engine 🚽 🗖 💌
Server Templates Clients Users View	Help
	🚱 Help Topics
Start server Resume server Pause server	License ve object
ScannerVision Processing Engine	Professional Services
	Vertical Market Resources
	About

ScannerVision License Manager opens. Click Detailed License Information.

Online Activation @ Offline	Activation
Serial number	Voucher Number(s)
Activate/Topup	Upload Billing Information CC Proxy Settings
Customer information	
Name:	
Company:	
Email address:	info@scannervision.com
Telephone number:	123456
Server license information	
Serial number:	
Description:	Scan For You Office NFR
Expiry date:	13 November 2020
License type:	Unlimited
Maintenance information	
Expiry Date:	13 November 2020
Maximum Licensed Version:	Any, currently supported, released version
Status:	Valid
Detailed License Information	

• Check if the number corresponds to the MyQ device licenses number.

MyQ	KDSJLCZLXWSNRX9F	2 13 November 2020

## 22.3.3 Configuration

Once the ScannerVision server is installed, there are configuration steps to be done, both in MyQ and in ScannerVision:

- Configuring ScannerVision
  - Templates
  - Clients
  - Users
- Adding ScannerVision as a terminal action in MyQ

#### Configuring ScannerVision

In order to set ScannerVision properly, you need to configure Network settings, Templates, Clients and Users.

#### **Network Settings**

- 1. Open ScannerVision. **Settings** is shown by default.
- 2. Click Network Server Settings in the Module View.

Server Templates Clients Use	rs View Help						
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1				Ê	-	🕗 🔇
	use server Stop se	erver Add forms	Add workflow Delete tem		gs Discard settings		Help Professional
		recognition					Services
Back  * Settings -> >	Network Serve	er Settings ->>					
General	Navigation Tip: De	ouble click icons with	h orange circles and single click o	ons without.			
(A)	Modules View	×	Network Server Setting				
	-		retiron server setting				
Settings	-203		TCP/IP port	1983			
Ð	General Server Settings	Network Server Settings		Enable encryption	n		
<u>_</u>							
Connections	-	f 📑	Web Server				
<b>E</b>							
<b>\$</b>	SMTP Server Settings	FTP-ES Server Settings	Address	10.14.4.73			
Templates			De d				
	T		Port	81	Bind to non-SSL port		
Clients	J.		SSL port	443			
	Message Customizations						
			STA port	50100			
Users			FTP port	2222			
			Data port from	65000			
Master Forms							
			Data port to	65535			
			Timeout	30			
Log							
			SSL certificate store type	System - Local Machi	ine		
A			SSL certificate store	Trusted Root Certific	ation Authorities		
General							
🔀 Tools			SSL certificate	TMQPRG-TMYQT3.n	nyq.cz		° 🛷
			Host name	TMQPRG-TMYQT3.n	nyq.cz		

- 3. Add the IP address or hostname of the ScannerVision Web Server in the **Address** field.
- 4. Change the preset ports if necessary.
- 5. Enable/disable non SSL.
- 6. Configure the FTP-ES server settings:

Server Templates Clients User	rs View Help				
Start server Resume server Par	use server Stop se			template Apply setting	ps Discard settings
Back * Settings ->>	Network Server	r Settings ->>			
General	Navigation Tip: Do	uble click icons with	orange circles and single clic	ck cons without.	
-	Modules View	×	FTP-ES Server Setting	16	
Settings Settings Connections Templates Clients Users	General Server Settings SMTP Server Settings Message Customizations	Network Server Settings	FTP Server address Command port Data port from Data port to	<ul> <li>Enable FTP-ES server</li> <li>10.14.4.73</li> <li>9569</li> <li>65000</li> <li>65535</li> </ul>	,

7. Save your settings.

#### Templates

Templates control what actions ScannerVision performs. They determine where documents come from, what processing is done on them and where they ultimately end up. Multiple templates can be defined and assigned to users and groups.

To add a new template:

- 1. Open ScannerVision Processing Engine and click **Templates** in the **Navigation Pane**.
- 2. Click **Add Workflow** on the top menu.
- 3. Name the new template and mark it as Enabled.
- 4. Click **Apply Settings** on the top menu.
- 5. Once saved, double-click on the new template. In the right tab of the window, select **Client Capture**.
- 6. In the Client Capture tab, mark the **Enabled** checkbox. Now the template's settings are editable.

Navigation Tip: Do	uble click icons wit	h orange circles and single click	k con	ns without.
Modules View			×	Hot Folder FTP Server Mail Server Client Capture
				Hot folder settings
Capture Settings	Output Format Settings	Document Store Settings		Enabled
<a></a>	ABC			Hot Folder
Xml Data Import	ABC Settings	Document Annotati		Share username
*				Share Password

#### Adding Questions on a Template

Questions are used to capture necessary document information. To add a new **Question** to a template, in the Client Capture tab:

- 1. Right click on the **Questions** area.
- 2. Select Add question.
- 3. In the new Template Question window, fill in the **Question**, **Tag name**, and **Default** text fields, and any other of the optional fields.
- 4. In **Question Type** select *Typed*.
- 5. Click **Save**.

A		Scan	nerVision Processing I	Engine - Unlicensed Copy	- • ×
Server Templates Clients Use					
		<b>5</b>			
Start server Resume server Pa	ause server Stop server Add form recogniti	ion	plate Apply settings	Discard settings Server Settings Help Professional Services	
Back * Templates ->>	New Template (1) ->>	Capture Settings -> >			
General	Navigation Tip: Double click icons w				
	Modules View ×		Server Client Capture		
Settings		Client capture settings			
M	Capture Settings	Enabled			
Connections		- Scanning properties			
		Type Text	▼ I Lock	Sides One side 🔹 🔲 Lock Scan source ADF 💌 🔲 Lock	
	Output Format		• V Lock		
Templates	Settings	Colors Auto			
		Resolution 300	Lock Sca	an orientation Portrait 💌 🗔 Lock	
Clients	Document Store	Pages properties			
	Settings	Min	Max 0		
Users			• • •		
		- Questions			
	Xml Data Import	Tag name 🛛 💎	Question 🛛 🕅 Defaul	t value 🕅 Regular expression 🗑 Sample 🛛 🕅	
Master Forms	ADDE			ScannerVision - Template Question	×
			Question	question1	
Log	ABC Settings		Tag name	QUESTION1	
	- /		Default		
General					
S Tools	Document		Regular expression		
»». v	Annotati		Sample		
ScannerVision Processing Engine	<u>™=</u> 2	<u> </u>	Tooltip		
			Minimum size	0	
			Maximum size	0	
				Required	
			Question type		
			question type	. ypco	
					Save Cancel

#### Adding a PickList to a Question

A **PickList** can be added to a **Question** within a template, if the **Question Type** selected is *Typed*. To add a **PickList**:

- 1. Click on the **Add PickList** button on the right.
- 2. Once there, select *Static* as the **PickList Type**.
- 3. In the Picklist window, enter a **Name** for the picklist.
- 4. Add picklist items by pressing the plus (+) button on the right.
- 5. Click Save.
- 6. Once saved, select the picklist(s) to be displayed for this question and click **Save**.

A				ScannerVision Processing Engine - Unlicensed Copy	_ 🗆 X
E Server Templates	Clients Use	rs View Help			
	ume server Pa	use server Stop server Add	I forms	Image: Constraint of the second sec	
Back +	Templates ->>	New Template (1) -> >	Capture	e Settings ->>	
General		Navigation Tip: Double click icon	ns with ora	nge circles and single click cons without.	
		Modules View	× Ho	t Folder   FTP Server   Mail Server   Client Capture	
Setting	5		Ĉ	lient capture settings	
Ð	)	Capture Settings		V Enabled	
Connection				Scanning properties	
E		Output Format	=	Type Text V Lock Sides One side C Lock Scan source ADF Lock	
Template		Settings		Colors Auto 🔹 🗹 Lock Size A4 🔹 🗆 Lock	
	)			Resolution 300 V Lock Scan orientation Portrait V Lock	
Clients		Document Store		Pages properties	
		Settings		Min 0 📩 Max 0	
Users		<a>2</a>		Questions	
5		Xml Data Import			
2		ScannerVision - To	emplate	Tag name V Question V Default value V Regular expression V Sample V Question	
0	and a start				
Question	question1				
Tag name	QUESTION1				
Default				ScannerVision - PickList	
Regular expression					
Sample				Name list1	
Tooltip				Guid {68DF9505-7391-4C44-9893-2F80724F21DC}	
Minimum size	0			🛄 Dynamic retrieval	
Maximum size	0			Picklist items	7 5
	Required			1	=0
	Selected	-		2	
Question type Picklist		•			
PICKIIST	> Iist	V Picklist Type V GUID		V EO	
	> list			556-40F0-9663-68847A7CB1C1} 56 991-4C44-9893-2F80724F21DC) 7	
	1.00				
				Save Cancel Save	e Cancel

#### Clients

The clients you configure here represent the MyQ terminals connected to ScannerVision. To add a client, go to ScannerVision Processing Engine and:

- 1. Click **Client** on the **Navigation Pane**.
- 2. Click Add under the Clients view.
- 3. Choose *MyQ* as the **Client type**.
- 4. Optionally add a **Client name** and **Client description**.
- 5. Add the printing device's **IP address** (make sure to use the device's IP address and not the MyQ server one).
- 6. Choose an Authentication method from:
  - a. None everyone can access the same templates
  - b. *ScannerVision* Used for Single Sign On; Users have customized template lists.
- 7. Choose the templates to be accessed by everyone, in case *None* was the authentication method of choice.
- 8. Click Save.

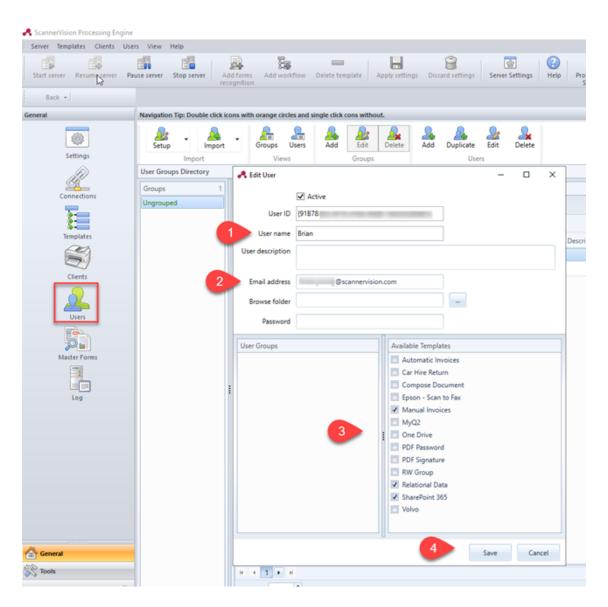
Server Templates Clients Use	rs View Help		
		A 54	
Start server Resume server Pa			v Delete template Apply settings Discard settings Server Settings Help Professional Services
Back +			
General	Navigation Tip: Double click i	cons with orange circles and	id single click cons without.
Settings	Groups Clients Add	Edit Delete	Add Duplicate Edit Delete Query Register Deregister Clients Device Commands
B	Client Groups Directory	Add Client	- 🗆 X
<u> </u>	Groups 1		✓ Active
Connections	Ungrouped		
<b>1</b>		3 Client type	e MyQ •
Templates		Client ID	D (AB766513-3F48-4D85-BAC2-872F6F680053)
		4 Client name	e My new MFP
Clients		Client description	n MyQ Smartworkflow enabled MFP
		5 IP address	s 192,168.0.123
Users			
E .		Host name	e
20	6	Authentication method	d None 💌
Master Forms		Client Groups	Available Templates
			Car Hire Return
Log			Compose Document
,			Epson - Scan to Fax
			Manual Invoices
			✓ MyQ2
			7 VDF Password
			PDF Signature
			RW Group
			C Relational Data
			SharePoint 365
		L	Volvo *
General			8 Save Cancel
TUT Ocheral		111	

#### **Configuring Users**

Users can be imported from a Windows Server, LDAP, AD or they can be manually added. For further instructions, please check the *ScannerVision User Manual*. Users also need to have templates assigned to them.

Whichever method is chosen, the users in ScannerVision have to match MyQ Users. If users are imported, their properties such as names and email addresses will match, however **Templates** will still need to be assigned to them. To check and make necessary modifications, go to ScannerVision Processing Engine, click **Users** on the **Navigation Pane** and:

- 1. Make sure that the **User name** matches the MyQ user name (if users were manually added).
- 2. Make sure that the **Email address** matches the MyQ user's email address (if users were manually added).
- 3. Select templates for the user from the Available Templates.
- 4. Click **Save**.



#### Adding ScannerVision as a Terminal action in MyQ

After configuring ScannerVision (network settings, templates, clients, users), you should create a MyQ Smart Workflow in **Terminal Actions**.

- 1. Go to MyQ, Settings, Terminal Actions.
- 2. Right-click on **Home screen**, select **Add action into this folder**, and then click on **External workflow** on the list of actions. The action is added to the list and the terminal preview. Double-click on it to modify its settings. The node's properties panel opens on the right side.

= <b>MYQ</b>	P Settings: Terminal Actions					
% Settings	Printers & Terminals > 🖳 Terminal	Actions				
<ul> <li>□ License</li> <li>♀ Server type</li> <li>☆ General</li> <li>⊘ Personalization</li> <li>⊘ Task Scheduler</li> <li>♀ Network</li> <li>▲ Authentication servers</li> <li>♀ SIMP</li> <li>☞ Printer Sk Terminals</li> <li>⊗ Configuration Profiles</li> <li>⊗ Printer Discovery</li> <li>♥ Terminal Actions</li> <li>◊ Events</li> <li>◊ Event Actions</li> <li>◊ Users</li> <li>○ Policies</li> <li>∞ User Sure Authentication</li> <li>♂ Rights</li> <li>▶ Accounting</li> <li>☆ Credit</li> <li>♀ Quota</li> </ul>	Add action into this folder  Add action into the intothe in	See the documentation for Polder Print All Easy Copy Easy Scan Easy Scan Easy Fax Application Ust Unlock Panel Panel Copy Panel Scan Panel Scan Panel Scan Panel Box Panel Scan Panel Box Panel Scan Recharge Credit Fax Box USB Print USB Print Di Card Copy Print All Print All	compatibility (	etails. Easy Scan – Email Easy Scan – Folder Easy Scan – Folder D Card Registration	Panel USB Easy Copy Panel Scan	, Mor

#### 3. Fill out the External workflow as follows:

ScannerVision	×				
General					
Enabled:					
Title:	en ScannerVision				
Printers: *	The All printers				
Rights: *	All users				
Style: *	External workflow				
<ul> <li>Parameters</li> </ul>					
URL: *	https://10.14.5.125				
Type: *	ScannerVision				
	Save Cancel				
Fields marked by * are mar	ndatory.				

a. Enter a **Title**. After saving, this will be shown as the name of the **External** workflow action in the **Home** screen pane and on the terminal preview.
b. Enter the **URL** of the ScannerVision server; *ScannerVisionServer:port. http* or *https* depends on the ScannerVision server settings.

The port number is not required if the default settings (80 for non SSL and 443 for SSL) are used on the ScannerVision server. If the port was changed, the port number is required.

For example: *https://10.14.5.125* for SSL only with the default port used and *http://10.14.5.125:81* for non SSL and the port was changed from *80* to *81*. c. Change the **Printers** and/or **Rights** if you want to create a specific MyQ

Smart Workflow. d. Click **Save**.

# 23 System health check

This option presents you with an overview of error messages with the level of severity added after some registered checks are done. The errors concern database health, disk space availability, PIN length settings and time zone configuration, etc. They are listed in the table below.

Code	Severity	Description
101	High	Main database health is not good; multiple messages can appear in the log
102	High	Log database health is not good; multiple messages can appear in the log
103	Medium	PIN length needs to be increased; see Generating PIN
104	High	Disk space is on warning level; see Disk space checker
105	Critical	Disk space is on critical level; see Disk space checker
106	High	Time zones misconfiguration; see Time zone
107	Medium	Queue(s) has an error
108	Medium	Obsolete terminal version
109	High	License subscription is going to expire
110	High	License Subscription expired
111	High	Contacting license server failed
112	High	At least one service is not running.
113	High	The logon account of at least one service doesn't match the configured account.
114	Medium	Database password is default.
115	Medium	Administrator password is default.

When the error message has a **Critical** severity, the administrator gets an email.

Every error message with a **Low** severity is logged in the MyQ main log.

# 23.1 Using system health check

To access the system health check overview go to **MyQ, System health check**, or click on the system health check icon on the top-right side of the window.

						0
G Ho	ome 🕒 Add a new v	vidget Th	eme 🔻 🃿 Refr	resh 🕴 🔘 🤇	Generate data for	System health check
1.	Set your search criteria in	the left	: pane:			
		System hea	alth check			
	🛞 System health check					
	Date:	🕞 Run	igvee Show hidden	📿 Refresh	Last run: 02/09/20	22 1:48:18 PM
	Select a period or enter a range with the format starting dateending date. Date format: mm/dd/yyyy	Code	Created		Severity	Description
	Severity:					
	All  Q Search					

You can search for errors on a specific **Date** by clicking the calendar icon. If you want to set a wider range search, click the arrow to choose a date: Select a **Severity** from the drop down list.

- 2. Click **Search**. The search result is shown in the right pane.
- 3. Click **Run** to trigger the System health check **Task schedule** to perform a check with these date and severity settings.

# 24 Updating MyQ

The MyQ update to a higher version or reinstalling the same version is performed automatically after running the installation executable file.

Before a MyQ update on Windows Server 2012/2012 R2/2016/2019 (or on Windows 8.1/10), make sure that the latest Windows updates are downloaded and installed on the server.

It is strongly recommend to backup your database before the update.

A direct upgrade to version 10.0 is only possible from version 8.2.

## Limitation:

Before an upgrade, go to MyQ Easy Config and set the database password to the default "*masterkey*". Once the upgrade is complete, change the password again.

A direct upgrade to version 8.0 and higher versions from versions lower than 6.0 is no longer supported. These versions have to be upgraded via an intermediary version, for example via 6.2.

- For version 4.2 or lower, the intermediary versions are: 4.3 -> 5.2 -> 7.1.
- For version 5.2 to 5.10 the intermediary version is 7.1.

To update MyQ:

- 1. Run the MyQ software installation executable file. The Select Setup Language dialog box appears.
- 2. Select your language, and then click **Next**. The Setup dialog box appears. It informs you that there is an older version of MyQ and that the installer will start the update process.
- 3. Click **Yes**. The Select Additional tasks dialog appears.
- 4. Select if you want a MyQ Easy Config shortcut to be created and click **Next**. The rest of the update process is nearly identical to this of installing MyQ, except that you are asked to choose upgrade options.

侵	Setup - MyQ 8.1.0.780	<b>–</b> 🗆 X
O	otions	Q
	<ul> <li>Start services after finish</li> <li>Back up the database</li> <li>Clear the log (upgrade will be faster)</li> </ul>	
	< Back	Install Cancel

You can find an upgrade manual with more details on the MyQ Community portal.

# 25 Uninstalling MyQ

To uninstall MyQ:

- 1. Run **unins000.exe**. You can find this file in your MyQ program folder (The default folder is: *C*:\*Program Files\MyQ\*). The MyQ Uninstall dialog box appears.
- 2. Click Yes.

All parts of MyQ will be uninstalled except for the **Data Folder** and its **Job Folder**. You can delete these folders manually. In case you install MyQ again, the installation program will ask if you want to use the old database files or replace them with new files.

# 26 MyQ and MS Cluster

# 26.1 About

The MyQ MS Cluster high-availability solution consists of multiple nodes in the active/passive configuration with the MyQ Print server installed on each node. MS Cluster administrates the MyQ services and if the currently active node becomes unavailable, it switches to one of the available passive nodes.

# 26.2 System Requirements

The fully detailed MyQ Print Server system requirements can be found here.

• Compatibility with Windows Servers

The MyQ MS Cluster solution is supported by the following Windows Server versions and editions:

Windows Server	Editions
Windows Server 2012	Standard, Datacenter
Windows Server 2012 R2	Standard, Datacenter, Hyper-V® Server, Storage Server
Windows Server 2016	Standard, Datacenter
Windows Server 2019	Standard, Datacenter
Windows Server 2022	

- A prepared failover cluster with at least two nodes and storage for MyQ data is needed. Each node must meet the system requirements of the MyQ Print server and its components.
- The same time zone has to be set on each of the nodes.
- (i) If your setup includes embedded terminals, make sure to have the required .NET framework version installed in each cluster node. If not, the embedded terminal installation will fail. Further information can be found in the related MyQ Embedded terminal manuals.
- (i) If the MyQ Desktop Client, MyQ Smart Job Manager or the MyQ Smart Print Services applications are to be used on the MyQ users workstations, the IP address or hostname of the cluster has to be set in the applications (not the IP address or hostname of the nodes).

### 26.3 Licenses

With the new MyQ X licensing model with **Installation Keys** used in MS Cluster, there is only one installation key needed. The HW code is taken from the whole cluster, not individual nodes, so the license is activated against the cluster's HW, and not a single node.

- (i) With the old licensing model, when MS Cluster is used with the MyQ Print server, the amount of licenses needed depends on the number of nodes used, as the licenses need to be added and activated separately on each node.
  - MyQ server in Site mode licenses are received from the Central server automatically every day or during MyQ service or Cluster Node restart.
  - MyQ server in Standalone mode needs an extra licenses set for each node; each licenses set must be activated only on one node.

## 26.4 Setup

#### 26.4.1 Installing MyQ Print Server in the cluster (all nodes)

On each cluster node, do the following:

- 1. Run the MyQ installation file and install MyQ (details can be found here).
- 2. Make sure that the time zone set on the MyQ server is the same as the time zone set on each node).
- 3. **Stop All** MyQ services in the MyQ Easy Config application.

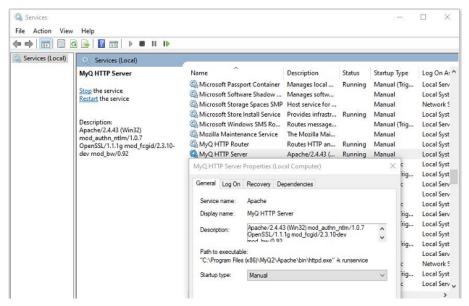
		MyQ Print Serve	r Easy Config	$-\Box \times$
Â		Services	my	<b>Q</b>
<b>Ö</b>	Services			$\bigcirc$
$\boldsymbol{\times}$	Settings		Start All Stop All	Restart All
		HTTP Router	2	STOPPED
1) ?	Log About	HTTP Server	2	STOPPED
A T	English •	Database Server	2	STOPPED
		Print Server	2	STOPPED
£	cus on what	PM Server	2	STOPPED
	DU DO BEST			

#### 26.4.2 Setting services to manual startup (all nodes)

All services used by the MyQ server need to be set to manual startup, on every node.

The following services need to be changed this way:

- MyQ HTTP Server
- MyQ HTTP Router
- Firebird Server DefaultInstance
- MyQ Print Server
- MyQ Svc (not available in version 8.1+)
- PM Server
- Brand Terminals (only if embedded terminals are used)



# 26.4.3 Creating the MyQ server MS Cluster role (Failover Cluster Manager)

Open Failover Cluster Manager and do the following:

1. Right-click **Roles** and select **Configure Role** on the shortcut menu. The High Availability Wizard opens.

📲 Failover Cluster Manager

File	Action	View	Help			
<b>(</b> =	) 🖄	•				
100	ilover Clu 2019clu		nager abad2016.lo	Cluster 2	019clust2.testlabad2016.loc	al
	<b>R</b> ' ∰ N		figure <u>R</u> ole	-178m	ummary of Cluster 201 )19clust2 has 0 clustered role	
> 🔁 S 🙀 N 🖳 C		Vir <u>t</u> u	al Machines		019clust2.testlabad2016.local	Networks: Cluster Network
		Crea	Create Empty Role		Host Server: Win2019NOD22 Cluster Events: A Critical: 5; E	Subnets: 1 IPv4 and 0 IPv6 irror: 33
		Refr	esh		None	
		<u>H</u> elp	,		onfigure	
					/oringulo	

- 2. Click **Next**. The Select role tab opens.
- 3. On the tab, select **Other Server**, and click **Next**. The Client Access Point tab opens.
- 4. On the tab, type a new Name for the MyQ server cluster, for example myq-server, then enter an unoccupied IP address from the network to be used by the MyQ server role, and lastly click Next. The Select Storage tab opens. MyQ will use the hostname for communication with terminals, as the SMTP server in MFPs etc.

🧱 High Availability \	Wizard			×
Client Ac	cess Point			
Before You Begin Select Role	Type the name that o	clients will use when accessing this clustered role:		1
Client Access Point	Name.	Inyq server		1
Select Storage		me is limited to 15 characters. One or more IPv4 For each network to be used, make sure the netwo		
Select Resource Types	address.		sin because and then type an	_
Confirmation		Networks	Address	
Configure High Availability		10.14.4.0/23	10 . 14 . 4 . 176	
Summary				
				1
		< Previous	Next > Cancel	
		< Previous	wext > Cancel	

5. On the tab, select the storage volumes that you want to use for the MyQ server.

🙀 High Availability Wizard X					
to Select Ste	orage				
Before You Begin Select Role Client Access Point		mes that you want to assign torage to this clustered role a	to this clustered role. Ifter you complete this wizard.		
Select Storage	Name	Status			
Select Resource Types	<ul> <li></li></ul>	<ul> <li>Online</li> <li>Online</li> </ul>			
Confirmation		0			
Configure High Availability					
Summary					
			< Previous Next >	Cancel	

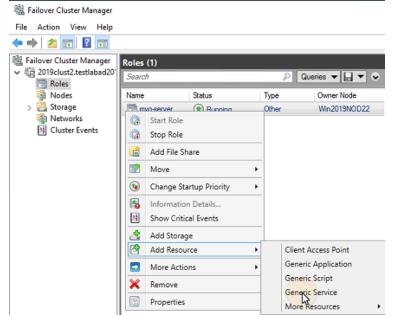
6. Click **Next** to finish the installation process.

## 26.4.4 Adding MyQ resources (Failover Cluster Manager)

Once the MyQ server role is created and configured, MyQ resources need to be configured as well, in the **Roles** tab in Failover Cluster Manager.

#### Add the <u>Firebird server - DefaultInstance</u> service to the MyQ server role:

1. Right-click the MyQ server role, then click **Add resource** on the shortcut menu, and click **Generic Service**. The New Resource Wizard opens.



2. In the list of services, select **Firebird Server - DefaultInstance**, and click **Next**.

Select Se	ervice	
Select Service	Select the service you want to use from the list:	
Confirmation		
Configure Generic	Name	Description
Service	Encrypting File System (EFS)	Provides the core file encryption technology us
Summary	Enterprise App Management Service	Enables enterprise application management.
	Extensible Authentication Protocol	The Extensible Authentication Protocol (EAP) s
	FcSrv	FcSrv
	Firebird Server - Default Instance	Firebird Database Server - www.firebirdsql.org
	Function Discovery Provider Host	The FDPHOST service hosts the Function Disc
	Function Discovery Resource Publication	Publishes this computer and resources attache
	Geolocation Service	This service monitors the current location of the
	GraphicsPerfSvc	Graphics performance monitor service

- 3. On the **Confirmation** tab, click **Next** to create the service. The service is created and configured.
- 4. Click **Finish** to leave the setup.

#### Add the <u>Apache Monitor</u> script to the MyQ server role:

- 1. Right-click the MyQ server role, click **Add resource** on the shortcut menu, and click **Generic Script**. The New Resource Wizard opens.
- Enter the path to the ApacheMonitor.jse script, located in the MyQ installation folder, and click Next. The Confirmation tab opens. The default path to the script is: C:\Program Files\MyQ\Server\ApacheMonitor.jse
- On the tab, click **Next** to create the service. The service is created and configured.
- 4. Click **Finish** to leave the setup.

#### Add the <u>MyQ Monitor</u> script to the MyQ server role:

- 1. Right-click the MyQ server role, click **Add resource** on the shortcut menu, and click **Generic Script**. The New Resource Wizard opens.
- Enter the path to the MyQMonitor.jse script, located in the MyQ installation folder, and click Next. The Confirmation tab opens. The default path to the script is:

C:\Program Files\MyQ\Server\MyQMonitor.jse

- 3. On the tab, click **Next** to create the service. The service is created and configured.
- 4. Click **Finish** to leave the setup.

# Add the <u>TerminalsMonitor.jse</u> script to the cluster (only if embedded terminals are used)

- 1. Right-click the MyQ server role, click **Add resource** on the shortcut menu, and click **Generic Script**. The New Resource Wizard opens.
- 2. Enter the path to the **TerminalsMonitor.jse** script, located in the MyQ installation folder, and click **Next**. The Confirmation tab opens. The default path to the script is:

C:\Program Files\MyQ\Server\TerminalsMonitor.jse

- 3. On the tab, click **Next** to create the service. The service is created and configured.
- 4. Click **Finish** to leave the setup.

## 26.4.5 Setting resources dependencies (Failover Cluster Manager)

After adding the services and scripts to the MyQ server role, open the **Resources** tab of the MyQ server role at the bottom of the **Roles** tab and set the dependencies of the MyQ services and scripts.

	Status	Туре	0		
myq-server	0	136.0	Owner	Node	
	Partially Runni	Other	Win20	19NOD	1
. 🖻			Professed Ocurany	Anun	
myq-server			Preferred Owners:	Any.n	00
Name			Preferred Owners: Status	Any.n	00
Name Roles			Status		00
Name Roles	Instance		Status		0.0
Name Roles Roles Roles Robird Server - Default	Instance		Status (a) Offine (b) Offine		0
Name Roles Roles Roles Ricebird Server - Default NyQMonitor Script	Instance		Status		00
Name Roles Roles Roles Robird Server - Default	Instance		Status (a) Offine (b) Offine		0.0

#### Set the <u>Firebird Server - DefaultInstance</u> service dependency

 In the list at the bottom of the tab, right-click Firebird Server -DefaultInstance, and click Properties. The Firebird Server - DefaultInstance Properties dialog box opens.

🍓 Failover Cluster Manager				
File Action View Help				
🗢 🔿 🙋 🖬 🚺				
<ul> <li>Failover Cluster Manager</li> <li>2019clust2.testlabad2(</li> <li>Roles</li> </ul>	Roles (1) Search		P	Queries 🗸 🕁 👻
Nodes	Name	Status	Туре	Owner Node
> 📇 Storage 🏐 Networks 🔢 Cluster Events	nyq-server 📆	Partially Runni	Other	Win2019NOD22
_	<			>
	v 💽 myq-se	erver	P	referred Owners: Any node
	Name			Stati ^
	Server Name			
	🗈 📆 Name: my	q-server		۲
	Roles			
		erver - DefaultInstance		۲
	Bring Onli			۲
< >	Take Offlin			. ا
		on Details		
	Show Criti	ical Events		
	More Acti	ions 🔸		
	🔀 Remove			
	Properties	5		

In the dialog box, open the **Dependencies** tab, add the shared disk drive (or NAS) where the system is supposed to work on, add the name of the MyQ server role, and click **OK**. The dependency is set.

General	De	ependencies	Policies
ecify the reso brought onlir		be brought online befo	ore this resource c
AND/C	OR Resource		
	Cluster Disk	k 1	
AND	Name: myq	q-server	
Click here	to add a depend	lency	
		Insert	Delete
uster Disk 1 /	AND Name: myq-		Delete

#### Set the <u>MyQMonitor</u> script dependency

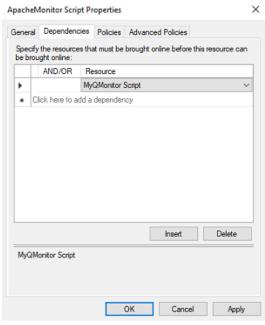
1. In the list at the bottom of the tab, right-click **MyQMonitor Script**, and click **Properties**. The MyQMonitor Script Properties dialog box opens.

2. In the dialog box, open the **Dependencies** tab, add the **Firebird Server -DefaultInstance**, and click **OK**. The dependency is set.

_	AND/OR	Resource					
,		Firebird Server - DefaultInstance $\sim$					
• (	lick here to a	dd a d	epender	псу			
				Insert	Delete		
irahi	d Server - De	faultin	tance	Insert	Delete		

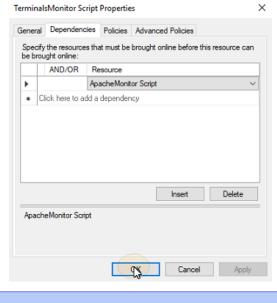
#### Set the ApacheMonitor script dependency

- 1. In the list at the bottom of the tab, right-click **ApacheMonitor Script**, and click **Properties**. The ApacheMonitor Script Properties dialog box opens.
- 2. In the dialog box, open the **Dependencies** tab, add the **MyQMonitor Script**, and click **OK**. The dependency is set.



# Set the <u>TerminalsMonitor</u> script dependency (only if embedded terminals are used)

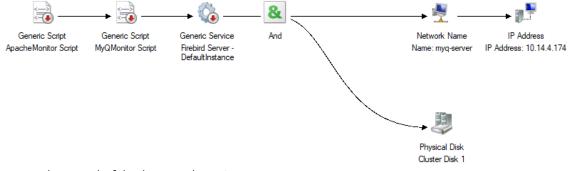
- 1. In the list at the bottom of the tab, right-click **TerminalsMonitor Script**, and click **Properties**. The TerminalsMonitor Script Properties dialog box opens.
- 2. In the dialog box, open the **Dependencies** tab, then add the **ApacheMonitor Script**, and click **OK**. The dependency is set.



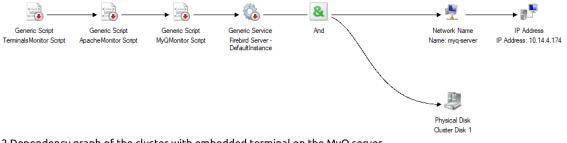
Once you upload an Embedded terminal installation package on the MyQ web administrator interface of the MyQ cluster server, the cluster uses the script to distribute the package among all the other nodes.

### 26.4.6 Dependency Reports

To make sure that the dependencies are set correctly, you can check if the dependency report of the MyQ server role corresponds to the below graphs:



1 Dependency graph of the cluster on the MyQ server



 ${\tt 2}$  Dependency graph of the cluster with embedded terminal on the MyQ server

To open the dependency report, right-click the MyQ server role on the **Roles** tab of the cluster in Failover Cluster Manager, click **More Actions**, and click **Show Dependency Report**.

## 26.5 Additional Setup

Even though the installation is finished, there are some additional steps needed to setup the environment before bringing the resources online.

#### 26.5.1 Setting up the MyQ admin credentials (active node)

On the active node, open the MyQ Easy Config application:

- 1. On the Services tab, Start All services.
- 2. On the **Home** tab, set the **Server Administrator Account** password and the **Database Administrator Password** (if the passwords have been changed before, they can be changed again on the **Settings** tab).
- 3. On the **Services** tab, **Stop All** services, and close the MyQ Easy Config application.

## 26.5.2 Setting the location of the data folder (all nodes)

On each node of the cluster, you need to set the location of the **Data** folder and the **Jobs** folder, which require access to the shared cluster disk, so the node has to be active. Therefore, you need to switch the active mode between all of the nodes (move the MyQ server role between the nodes).

To set the folders location, open MyQ Easy Config on the currently active node and:

- 1. On the Services tab, Start All services.
- 2. On the **Settings** tab, under both the **Data** folder and the **Jobs** folder, click **Change location**, and then define the path to the shared cluster disk. (For more information about how to do this, check here).
- 3. On the **Services** tab, **Stop All** services, and then close the MyQ Easy Config application.
- 4. In Failover Cluster Manager, move the MyQ server role to the next node and repeat the process.

#### 26.5.3 Running MyQ in the MS Cluster environment

The following instructions have to be followed while MyQ runs in the MS Cluster:

- You should not start, stop or restart MyQ services while MyQ is controlled by the MS Cluster (cluster resources are online). The services should only be managed by Failover Cluster Manager.
- When switching to a different node, MyQ Easy Config should not be used on any node.
- When performing system maintenance (cluster resources are offline), but MyQ services are online on any node (activated manually), do not switch to a different node. By doing so, you risk corrupting the MyQ database.
- When switching to a different node, all services on the initial node are stopped by the MS Cluster.
- While MyQ runs in the cluster, the IP address of the MyQ server is the one that you have selected within the setup of the MyQ server role, and the hostname of the MyQ server is the one that you will set in the MyQ web administrator interface after you bring the resources of the MS Cluster online.
- It is strongly recommended to always keep the **Storage** and **Server Name** resources online. In case you need to take them offline, make sure that all MyQ services on the active node (the current owner of the MyQ server role) are stopped in the MyQ Easy Config application.
- After completing the setup (setup and additional setup) of the MyQ server role (and eventually all of the Embedded terminals, if used), and also after each crucial change on the cluster, it is recommended to test the cluster by moving the ownership of the MyQ server role between all nodes of the cluster.

### 26.5.4 Starting the system (Failover Cluster Manager)

To start the system, you have to bring the resources of the MS Cluster online. For information on how to do this, check here.

#### 26.5.5 Setting hostname of the MyQ server role

On the **Resources** tab of the MyQ server role in Failover Cluster Manager, you can see (and change) the DNS Name of the MyQ server role. The **Full name** of the role (DNS + domain) needs to be used as the server hostname and as the MyQ X Mobile Client server in MyQ.

To see or change the DNS name of the MyQ server role on the MS Cluster, do the following:

 In the list at the bottom of the **Resources** tab of the MyQ server role, under Server Name, right-click the server's name, and then click Properties. The Name:\*\*\* Properties dialog box opens.

	v myq-server	Preferred Owners: Any node
	Name Server Name	^
< >>	Name: myq-server	Bring Online > Take Offline
		Information Details Show Critical Events
		More Actions
	×	Remove
		Properties

2. On the **General** tab , you can see (and change) the DNS Name of the MyQ server role.

Name: m	yq-server Prop	erties			×
General	Dependencies	Policies	Advance	ed Policies	
2			ame		
DNS N myq-se	lame: rver	-			
Full Nar IP Addr	ne: myq-server.to esses:	estlabad20	16.local		
Netwo	ork .14.4.0/23		IP Addr 10.14.4		
		A	dd	Edit	Remove
NetBIO	S Status:	ок			
DNS St	atus:	ок			
Kerbero	s Status:	ОК			
			ОК	Cancel	Apply

To set the hostname of the MyQ server role on the MyQ cluster server, do the following:

- On the Network settings tab of the MyQ web administrator interface of the MyQ cluster server, use the Full name (DNS + domain) of the MyQ server in both of the following settings:
  - a. This server hostname under General.
  - b. Server under MyQ X Mobile Client.
- 2. Then click **Save** at the bottom of the tab.

무 Network
▼ General
This server hostname: * Terminals, MyQ Desktop Client and other components use this hostname when communicating with the server. It must match the certificate.
► Communication Security
► MyQ SMTP Server
► FTP Server
▼ MyQ X Mobile Client
The MyQ X Mobile Client uses these settings to connect to the MyQ server. The address and port can differ from the LAN because mobile devices connect via Wi-Fi.
Server: * Secure port (SSL): * 8090

# 26.6 Configuration and Maintenance

The below chapters show additional configuration and maintenance steps.

#### 26.6.1 Bringing the resources of the MS Cluster online (Failover Cluster Manager)

To start the system, you need to bring all the MS Cluster resources online - the **Firebird Server - DefaultInstance** service, the **ApacheMonitor.jse** script, the **MyQMonitor.jse** script and the **Terminal Monitor** script (only if embedded terminals are used).

To bring a service or script online, open the Failover Cluster Manager application, go to **Roles**, right-click the service or script, and click **Bring Online** on the shortcut menu.

🍓 Failover Cluster Manager					
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	Roles (1)				
2019clust2.testlabad2(	Search			🔎 Queries 🔻 📘	• •
Roles	Name	Status	Туре	Owner Node	Priority
> 🛃 Storage	myq-server	Stopped	Other	Win2019NOD22	Mediu
Networks	injq server	Stopped	Carlor	THILDIGHUDDEL	mound
Cluster Events					
	<				>
	(min)				
	👻 🐻 myq-s	erver		Preferred Owners: Ar	iy node
	Name			Status	
	Storage				
	🗉 📇 Cluster Di	sk 1		۰ ک	nline
	Server Name				
	🗈 📑 Name: my	q-server		۰ ک	nline
	Roles				
	Erebird S	erver - DefaultInstance	1	۹ (	fline
	Bring Onl	ine		۹ ک	fline
	Take Offli	ne		۵ (ا	fline
	🚯 Informati	on Details			
	🔠 Show Crit	ical Events			
	More Act	ions 🕨			
	🗙 Remove				>
< >	Propertie	5			

# 26.6.2 Taking the MS Cluster resources offline (Failover Cluster Manager)

To make sure that all the MS Cluster resources -except for **Storage** and **Server Name**- are offline, it is sufficient to take the **Firebird Server - DefaultInstance** service offline; all of the scripts will be taken offline due to their dependency on this service.

The **Storage** and **Server Name** resources must stay online.

To take the **Firebird Server - DefaultInstance** service offline, open Failover Cluster Manager, go to **Roles**, right-click the **Firebird Server - DefaultInstance** service, and click **Take Offline** on the shortcut menu.

loles (1)					
Search			ρ Q	ueries 🔻 📘	
Name	Status		Туре	Owner No	ode
myq-server	📀 Running	9	Other	Win2019	NOD1
myq-server			Prefer	red Owners: A	ny nod
			Prefer	red Owners: A	ny noc
Name			Prefer		ny noo
Name Roles RoacheMonitor S			Prefer		ny noo
nyq-server Name Roles			Prefer Bring Online	Status	iny noo
Name Roles RoacheMonitor S	DefaultInstance			Status	ny noo
Name Roles Risk Apache Monitor S Rinebird Server - I Rinebird Server - I	DefaultInstance		Bring Online	Status The second seco	uny noc
Name Roles Role	DefaultInstance	5	Bring Online Take Offline	Status The second seco	
Mame Roles Ro	DefaultInstance ot	<b>€</b> 3	Bring Online Take Offine Information Details	Status	iny noo
Name Roles Role	DefaultInstance st	S	Bring Online Take Offline Information Details Show Critical Events	Status	

# 26.6.3 Restarting MyQ services via the MS Cluster (Failover Cluster Manager)

To restart MyQ services via the MS Cluster, take all the MS Cluster resources, except for **Storage** and **Server Name**, offline and then bring them online.

## 26.6.4 Changing the MyQ admin credentials (active node)

To change the **Web Administrator Account** and **Database Administrator** passwords, you need to do the following on the currently active node (the current owner of the MyQ server role):

- 1. Open the Failover Cluster Manager application.
- 2. Open the **Nodes** tab of the cluster, right-click the currently active node, rightclick **Pause** on the shortcut menu, and click **Do Not Drain Roles**.

Failover Cluster Manager 2019clust2.testlabad2016.lo	Nodes (2)			
Roles	Search		P Que	eries 🔻 🔛 🔻 👽
Nodes	Name	Status	Assigned Vote	Current Vote
> 📇 Storage	🗟 Win2019NOD11	💽 Up	1	0
Networks	Win2019NOD22	🕥 Up	1	1
Cluster Events	Pause	•	Drain Roles	
	📑 Resume	•	Do Not Exain Roles	
	둸 Remote D	esktop	<u> </u>	
	🚯 Informatio	on Details		
	Show Criti	cal Events		
	More Acti	ons 🕨		

- 3. Take all the MS Cluster resources, except for **Storage** and **Server Name**, offline.
- 4. Open the MyQ Easy Config application, start all services, change the passwords, stop all services, and lastly close the application.
- 5. Bring the resources of the cluster online.
- 6. Open the **Nodes** tab of the cluster in Failover Cluster Manager, right-click the node, right-click **Resume** on the shortcut menu, and lastly click **Do Not Fail Roles Back**.

📲 Failover Cluster Manager	Nodes (2	2)					
V 🔯 2019clust2.testlabad2016.lo	Search					P C	Queries 🔻 📘 🔻 오
Roles	Name			Status		Assigned Vote	Current Vote
> 📑 Storage	Win2			Up     De     De		1	0
Cluster Events		8	Pause		•		
		Ъ	Resume		•	Fail Roles Ba	ck
		₽3	Remote Des	sktop		Do Not Fail F	Roles Back
		8	Information	Details		W5	
		5	Show Critic	al Events			
		∍	More Action	ns	•		

# 26.7 Backup and Restore

## 26.7.1 Backing up the MyQ database on the MS Cluster

The automatic and manual backup processes do not differ from the standard backup processes described in "Backing up MyQ Data". The only setting that requires special attention is the backup destination folder. It is recommended to save the backup files on the shared cluster disk.

# 26.7.2 Restoring the MyQ database on the MS Cluster (all nodes)

Before restoring the MyQ database, MyQ has to be installed and set up on all the MS Cluster nodes.

Now you need to restore the MyQ database and settings on the active node of the Cluster (the current owner of the MyQ server role) via the following steps:

- 1. Start All services via MyQ Easy Config.
- 2. Open the **Database** tab in MyQ Easy Config.
- In the Main Database section, click Restore.... Select the database \_\*.zip file, and click Open. If the backup is password protected, there is a prompt to provide the password. The database is restored and, if needed, upgraded as well.
- 4. Repeat the process for all the other nodes.

#### 26.7.3 Using Database Encryption

If you are using the **Database Encryption** feature in MyQ Easy Config, it is necessary to perform the following steps after encrypting or restoring your database:

- 1. Stop all Cluster resources except for **Storage** and **Server Name**.
- 2. Open MyQ Easy Config on the active node and start all services.
- 3. Enable DB encryption.
- 4. **Stop All** services in MyQ Easy Config.
- 5. Copy the DB encryption key to all the other nodes. The key is located by default in

"C:\Program Files\MyQ\Firebird\plugins\keyholder.conf".

6. **Start All** MyQ services in MyQ Easy Config, and bring all the resources online via Failover Cluster Manager.

## 26.8 Upgrading MyQ

#### 26.8.1 Necessary steps before the upgrade

Before starting the upgrade, make sure that you have an up-to-date and properly finished backup of the MyQ database. The database can be backed up either manually in MyQ Easy Config or automatically as a scheduled task in the MyQ web administrator interface. To make sure that the backup file is preserved, it is recommended to copy the database backup file to a different location.

## 26.8.2 Upgrading MyQ (all nodes)

The upgrade needs to be performed on each node of the cluster. To be able to upgrade MyQ on a node, you need to have access to the shared cluster disk, so the node has to be active. Therefore, you need to switch the active mode between all of the nodes (move the MyQ server role between the nodes).

Before upgrading MyQ on the nodes, take all the MS Cluster resources, except for Storage and **Server Name**, offline.

To upgrade MyQ on all nodes, start with the currently active node (the owner of the MyQ server role) and do the following:

1. Start All services via MyQ Easy Config.

- 2. Run the MyQ installation file.
- 3. Finish the installation process.
- 4. **Stop All** services via MyQ Easy Config, and then close the MyQ Easy Config application.
- 5. Move the MyQ server role to the next node and repeat all the steps.

After MyQ is upgraded on all the nodes, bring all the MS Cluster resources online.

(i) During the installation, you might encounter a warning message about a problem related to updating the MyQ database. In such cases, continue with the setup, as the problem does not impact the installation.

## 26.9 Recommended Troubleshooting

The MS Cluster solves issues on the currently active node which might affect the availability of the MyQ server, by switching to one of the available passive nodes.

Problems related to the MyQ server need to be treated manually. In case you encounter such problems, it is recommended to restart MyQ services in the Failover Cluster Manager application. If the problem persists, contact MyQ support.

In case the MS Cluster does not start, try taking all the MS Cluster resources, except for **Storage** and **Server Name**, offline, and then try to manually start MyQ services. If successful, it is likely that the problem is on the cluster side; otherwise the problem is probably related to the MyQ server, in which case contact MyQ support.

# 27 Available languages

Language	Abbreviation
Arabic (Saudi Arabia)	ar
Bosnian (Bosnia & Herzegovina)	bs
Bulgarian (Bulgaria)	bg
Chinese (Simplified)	zh-cn
Chinese (Traditional)	zh-tw
Croatian (Croatia)	hr
Czech (Czech Republic)	CS
Danish (Denmark)	da
Dutch (The Netherlands)	nl
English (United Kingdom)	en
English (United States)	en-us
Estonian (Estonia)	et
Finnish (Finland)	fi
Flemish (Belgium)	nl-be
French (France)	fr
German (Germany)	de
Hungarian (Hungary)	hu
Icelandic (Iceland)	is

Language	Abbreviation
Italian (Italy)	it
Japanese (Japan)	ja
Korean (South Korea)	ko
Latvian (Latvia)	lv
Lithuanian (Lithuania)	lt
Norwegian (Norway)	no
Polish (Poland)	pl
Portuguese (Brazil)	pt-br
Portuguese (Portugal)	pt
Russian (Russia)	ru
Serbian (Serbia)	Sr
Slovak (Slovakia)	sk
Slovenian (Slovenia)	sl
Spanish (Spain)	es
Spanish (United States)	es-us
Swedish (Sweden)	SV
Turkish (Turkey)	tr
Welsh (Wales)	су

# 28 Release notes for version 10.0

#### MyQ Print Server 10.0 (Patch 5)

- MyQ X Mobile Client settings improved.
- Reports new report 'Project User Session details' now available.

#### MyQ Print Server 10.0 (Patch 4)

- Added support for Gmail as SMTP/IMAP/POP3 server via OAUTH 2.0.
- Added Windows Server Performance Monitor information.

#### MyQ Print Server 10.0 RTM

- Reports column properties dialog improved.
- Maximum upload file size setting for print jobs moved to Jobs via Web.
- MyQ Easy Config errors/alerts (i.e. Embedded terminal services not running) are now registered by System Health Check.
- Adding terminal package newly added terminal packages run under the Local System Windows account.

#### MyQ Print Server 10.0 RC2

- Theme management in terminal personalization updated.
- Color property options in policies updated.
- httperr\*.log files added to the generated helpdesk zip file.
- Default scan to email message updated.

#### MyQ Print Server 10.0 RC

- MyQ OCR Server 3.0+, MyQ Mobile Print Agent 1.3+, and the latest MyQ X Mobile Client application are required to work with MyQ Print Server 10+.
- Communication ports updated.
- ICMP firewall rule information added.
- System health check messages updated.

#### MyQ Print Server 10.0 BETA

- New MyQ Web UI skin.
- Upgrade to version 10.0 is possible only from version 8.2.
- Removed support of Easy Cluster.
- Added the option to release the user's blocked credit on the user's right-click menu.
- Added the option to release the user's blocked quota on the user's right-click menu.
- It is now possible to change grayscale tolerance in the config.ini file.
- New default theme for terminals.
- Enhanced accessibility switch moved from the installer to the Web UI login page.

# 29 Business Contacts

MyQ® Manufacturer	<b>MyQ® spol. s r.o.</b> Harfa Office Park, Ceskomoravska 2420/15, 190 93 Prague 9, Czech Republic MyQ® Company is registered in the Companies register at the Municipal Court in Prague, division C, no. 29842
Business information	www.myq-solution.com info@myq-solution.com
Technical support	support@myq-solution.com
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