MyQ DDI Manual 1.0

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MyQ DDI Manual

> ⚠ The legacy **MyQ Desktop Driver Installer** (MyQ DDI) has been replaced by the Printer Provisioning feature. For the latest information about how to capture and provision print drivers to desktop clients, see https://docs.myq-solution.com/en/mdc/10.2/win/printer-profile-provisioning in the MyQ Desktop Client guide.

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.

In this manual, you can find all the information needed to set up the MyQ Desktop Driver Installer (MyQ DDI), which is a very useful automatic tool that enables bulk installation and configuration of MyQ printer drivers on local computers.

1 MyQ DDI Introduction

1.1 Main Reasons for MyQ DDI Installation

- For security or other reasons, it is not possible to share the printer drivers installed on the server to the network.
- Computers are not permanently available on the network, and it is necessary to install the driver as soon as it is connected to the domain.
- Users don't have sufficient rights (admin, power user) to install or connect the shared print driver themselves, or to run any installation script.
- Automatic printer driver port reconfiguration in case of MyQ server failure is required.
- Automatic change of default driver settings is required (duplex, color, staple etc.).

1.2 MyQ DDI Installation Prerequisites

- PowerShell – Minimal version 3.0
- Updated system (latest service packs etc.)
- Run script as administrator/SYSTEM in case of domain install
- Possibility to run scripts or bat files on the server/computer
- Installed and correctly configured MyQ Server
- Administrator's access to a domain server with OS Windows 2000 Server and higher. Possibility to run Group Policy Management.
- Microsoft signed printer driver(s) compatible with network connected printing devices.

1.3 MyQ DDI Installation Process

- Configure the *MyQDDI.ini* file.
- Test the MyQ DDI installation manually.
- Create and configure a new Group Policy Object (GPO) using Group Policy Management.
- Copy the MyQ DDI installation files and printer driver files to the Startup (for computer) or Logon (for user) script folder (in case of domain install).
- Assign a test computer/user to the GPO and check automatic installation (in case of domain install).
- Setup GPO rights to run MyQ DDI on the required group of computers or users (in case of domain install).

2 MyQ DDI Configuration and Manual Startup

If you plan to use MYQ DDI as a standalone portable installer or before uploading MyQ DDI to the domain server, it is necessary to configure it correctly and run it manually on a test target. The following components are necessary to correctly run MyQ DDI:

- **MyQDDI.ps1** - Main script
- **MyQDDI.ini** - Configuration file for the installation process
- **Printer driver files** - Necessary files for installing drivers
- **Printer driver settings file** - Optional file for set up the print driver (*.dat file)

The MyQDDI.ps1 file is in your MyQ Print Server folder, by default in *C:\Program Files\MyQ\Server*. The other files must be manually created.

> ⚠ Do not attempt to copy from the examples in this document - the values are for reference or placeholders only.

2.1 MyQDDI.ini Configuration

All the parameters necessary to configure the MyQ DDI are placed in the MyQDDI.ini file. Within this file you can set up printers and their ports as well as load a file with the default settings of a particular print driver.

2.1.1 The MyQDDI.ini Structure

MyQDDI.ini is a simple text file used to add configuration information about printers, ports, and print drivers to the system registry and thereby creating new printer ports and print drivers. It consists of several sections.

2.1.2 Section 1- DDI ID

The first section sets up the **DDI ID**. This is important when detecting whether this script is a **new run** or has already run before in the system. After running the **MyQDDI.ps1** for the first time, a new record **"DDIID"** is stored in the system registry. With every run of **MyQDDI.ps1** script, the **DDI ID** from the **MyQDDID.ini** is compared with the **DDI ID,** which is stored in the system registry, and the script is executed **only** if this **DDI ID** is not equal to the one in the .ini file.

This means, if you run the same script repeatedly, no changes are made in the system and the procedures for installing printer ports and drivers are not executed.

We recommend using the date of modification as referent **DDI ID** number.

```
[DDIID]
2024-1-15
```

If you use value **skip**, then the **DDI ID check is skipped**.

```
[DDIID]
skip
```

2.1.3 Section 2 - Printer Ports

The second section is for **printer port** configuration and installation. One or more printer ports can be created within a single script. Printer ports parameters are the standard TCP/IP port parameters for Windows OS.

MyQDDI.ini file uses the **[Port-]** to identify each port to be created, this is not the name of the port in Windows OS but the port name for the **MyQDDI.ps1** internal variables.

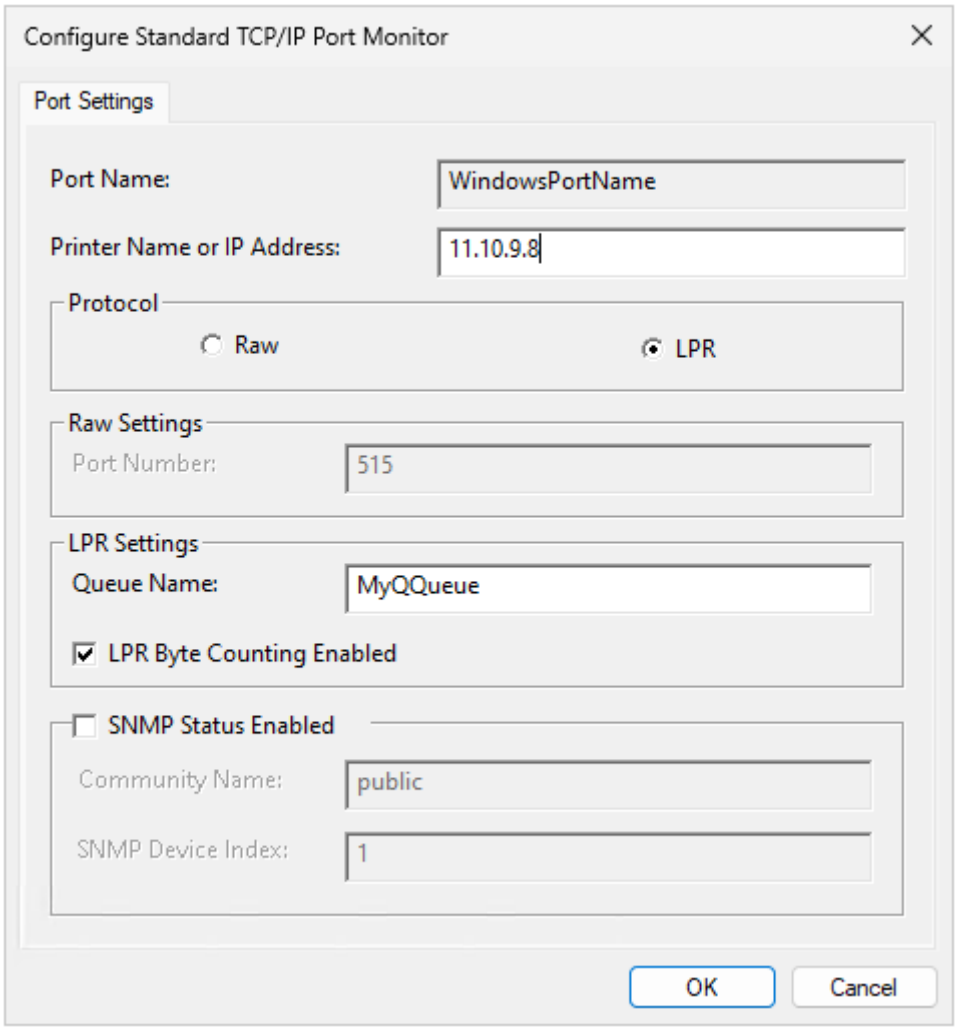
Here are some Windows OS standard TCP/IP print port parameters and their translation to **MyQDDI.ini**:

- **PortName** - Name of port in **Windows OS**, text.
- **QueueName** - Name of queue in **MyQ**, text without spaces.
- **Protocol** - Which protocol to use, "LPR" or "RAW", **default is LPR**.
- **Address** - Can be **hostname or IP address.** If you use a CSV file, then you can use parameters %primary% or %%.
- **PortNumber** - Port number to use, **LPR default is "515"**.
- **SNMPEnabled** - If you want use SNMP then enter "1", default is "0".
- **SNMPCommunityName** - Name for using SNMP, text.
- **SNMPDeviceIndex** - SNMP index of device, numbers.
- **LPRByteCount** - LPR byte counting, use numbers, default is "1" – turn on.

```
[DDIID]
2024-1-15

[Port-MyQDDIPortName1]
PortName=WindowsPortName
QueueName=MyQQueue
Protocol=LPR
Address=11.10.9.8
PortNumber=515
SNMPEnabled=0
SNMPCommunityName=Public
SNMPDeviceIndex=1
```

```
LPRByteCount=1
```



2.1.4 Section 3 Printer and Drivers

This section is used to install and configure the printer and its driver in Windows OS by adding all the necessary information to the system, using the driver **INF file** and optional configuration **DAT file**. To install the driver properly, all the driver files must be available and a correct path to these files must be set within script parameters.

MyQDDI.ini file uses the **[Printer-]** to identify each printer to be installed, this is not the name of the printer in Windows OS but the printer's name for the **MyQDDI.ps1** internal variables.

This section contains these parameters specific to the **MyQDDI.ini**:

- **PrinterName** - This is the name of the printer in Windows OS.

- **PrinterPort** - Name of printer port which will be used. This refers to the previously set **PortName** parameter in **section 2, NOT the [Port-]** in MyQDDI.ini but the Windows OS port name.
- **DriverModelName** - Correct name of printer model in driver.
- **DriverFile** - Full path to print driver file, you can use %DDI% to specify a variable path like: %DDI%\driver\x64\install.inf.
- **DriverSettings** - Path to Dat file if you want set printer settings, you can use %DDI% to specify variable path like: %DDI%\color.dat.
- **DisableBIDI** - This option turns off "Bidirectional Support", **default is** "**Yes**".
- **SetAsDefault** - This option sets this printer as default.
- **RemovePrinter** - Option to remove old printer if is necessary (uninstall).

```
[DDIID]
2024-1-15

[Port-MyQDDIPortName1]
PortName=WindowsPortName1
QueueName=MyQQueue
Protocol=LPR
Address=11.10.9.8
PortNumber=515
SNMPEnabled=0
SNMPCommunityName=Public
SNMPDeviceIndex=1
LPRByteCount=1

[Printer-MyQDDIPrinterName1]
PrinterName=WindowsPrinterName1
PrinterPort=WindowsPortName1
DriverModelName=ExactPrinterNameInDriver
DriverFile=C:\MyQ\Drivers\OEM.inf
DriverSettings=C:\MyQ\DriversConfig\color.dat
DisableBIDI=Yes
SetAsDefault=No
RemovePrinter=No
```

Driver settings

This configuration file is very helpful if you want to change the default settings of the print driver and use your own settings. For example, you want the driver to be in monochrome and set duplex print as default.

To generate the .dat file, you need to install the driver on any PC first and configure the settings to the desired status.

⚠ This driver must be the same as the one you will install with MyQ DDI.

After you set up the driver, run the following script from the command line:

```
rundll32 printui.dll PrintUIEntry /Ss /n "MyQ mono" /a "C:
\DATA\monochrome.dat" g u d r
```

Be sure to use the correct driver's name (parameter /n) and specify the path (parameter /a) where you want to store the .dat file.

For more information about the rundll32 printui.dll visit rundll32 printui.dll,PrintUIEntry | Microsoft Learn[1].

2.2 MyQDDI.ini example

```
[DDIID]
2024-1-15

[Port-MyQDDIPortName1]
PortName=WindowsPortName1
QueueName=MyQQueue
Protocol=LPR
Address=11.10.9.8
PortNumber=515
SNMPEnabled=0
SNMPCommunityName=Public
SNMPDeviceIndex=1
LPRByteCount=1

[Printer-MyQDDIPrinterName1]
PrinterName=WindowsPrinterName1
PrinterPort=WindowsPortName1
DriverModelName=ExactPrinterNameInDriver
DriverFile=C:\MyQ\Drivers\OEM.inf
DriverSettings=C:\MyQ\DriversConfig\color.dat
DisableBIDI=Yes
SetAsDefault=No
RemovePrinter=No

[Port-MyQDDIPortName2]
PortName=WindowsPortName2
QueueName=MyQQueue2
Protocol=LPR
Address=MyQPrintServerHostnameOrIP
PortNumber=515
SNMPEnabled=0
SNMPCommunityName=Public
SNMPDeviceIndex=1
LPRByteCount=1
```

1. https://learn.microsoft.com/en-us/windows-server/administration/windows-commands/rundll32-printui

```
[Printer-MyQDDIPrinterName2]
PrinterName=WindowsPrinterName2
PrinterPort=WindowsPortName2
DriverModelName=ExactPrinterNameInDriver
DriverFile=C:\MyQ\Drivers\OEM.inf
DriverSettings=
DisableBIDI=Yes
SetAsDefault=No
RemovePrinter=No
```

Notes:

- Avoid using special characters for the port name and follow Windows recommendations.
- Avoid using special characters for the printers' names and follow Windows recommendations.
- You can create multiple printers' entries in pairs of [Port-] [Printer-] as shown in the example.
- When creating the MyQDDI.ini file in a text editor choose **UTF-8** for encoding unless support for **regional or legacy** characters for printers' and ports' names are required.
- TCP/IP monitor port in Windows has a limitation for the length of LPR Queue name:

  o The maximum length is 32 characters.

  o If the queue name is too long, then the script will shorten it to a maximum of 32 characters.

2.2.1 MyQDDI.csv file and structure

Using MyQDDI.csv file, you can setup variable IP addresses of the printer port. The reason is to automatically reconfigure the printer port if the user changes the location with their laptop and connects to a different network. After the user switches on the computer or logs in to the system (it depends on the GPO setting), MyQDDI detects the IP range and on this basis, it changes the IP address in the printer port so that the jobs are sent to a correct MyQ server. If the Primary IP address is not active, then the Secondary IP is used. The MyQDDI.csv file must always be located in the same folder as MyQDDI.ps1.

	A	B	C	D	E
1	RangeFrom	RangeTo	Primary	Secondary	Comments
2	192.168.1.1	192.168.1.250	20.20.20.20	30.30.30.30	This is first comment
3	10.14.5.1	10.14.5.140	80.80.80.80	10.14.4.200	This is second comment
4					

- **RangeFrom -** The IP address that starts the range
- **RangeTo** - The IP address that ends the range
- **Primary** - The IP address of MyQ server; for the .ini file, use the %primary% parameter
- **Secondary** - IP that is used if primary IP is not active; for the .ini file, use the %secondary% parameter
- **Comments** - Comments can be added here by the customer

2.3 MyQDDI Manual Run

Before you upload the MyQDDI to the domain server and run it by login or startup, it is strictly recommended to run the MyQDDI manually on one of the PCs to confirm the drivers are installed correctly.

Before you run the script manually, be sure to setup the MyQDDI.ini and MyQDDI.csv. After you execute the MyQDDI.ps1 file, the MyQDDI window appears, all the operations specified in the MyQDDI.ini file are processed and information about every step is displayed on the screen.

MyQDDI.ps1 must be launched as administrator from PowerShell or the command line console.

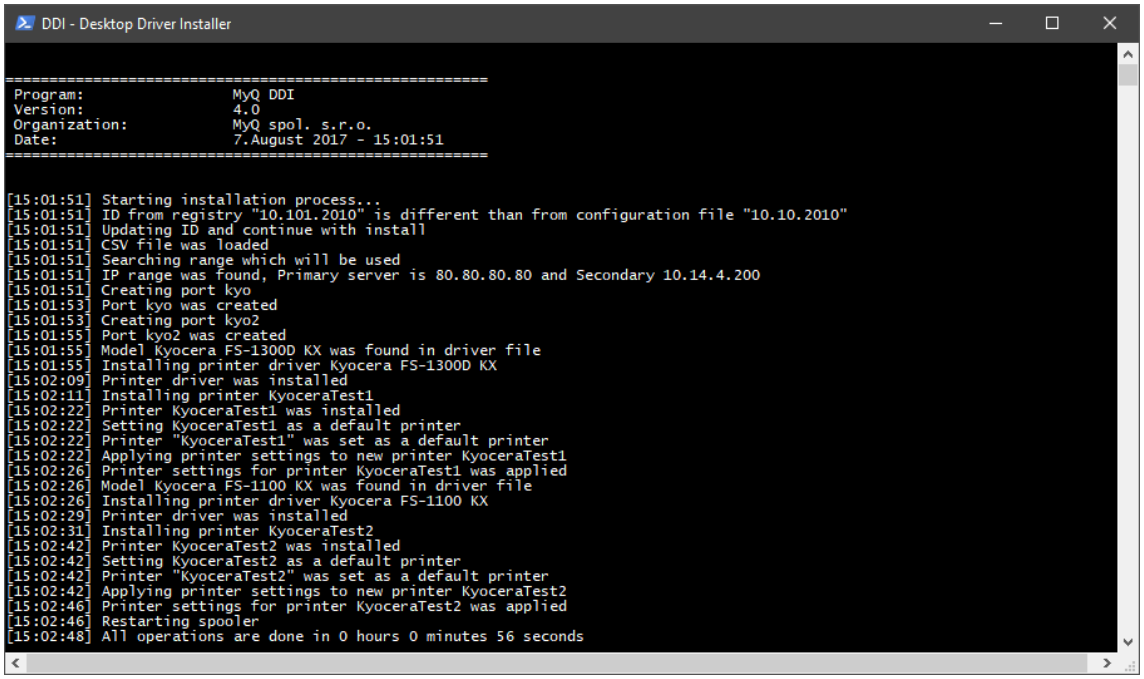
From PowerShell:

start PowerShell -verb runas -argumentlist "-executionpolicy Bypass","& 'C:\Users\dvoracek.MYQ\Desktop\Standalone DDI\MyQDDI.ps1'"

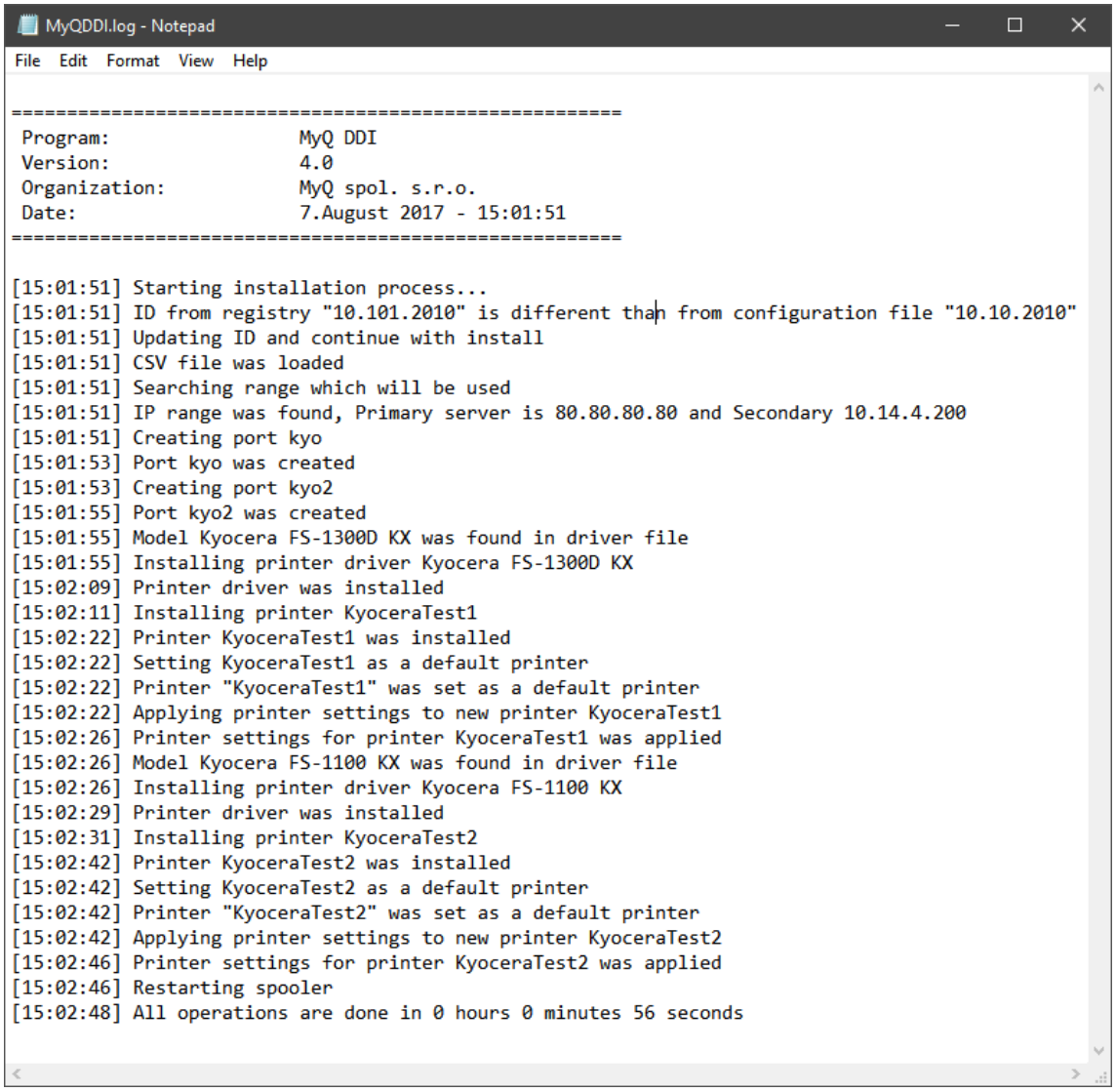
From CMD:

PowerShell -NoProfile -ExecutionPolicy Bypass -Command "& {Start-Process PowerShell -ArgumentList '-NoProfile -ExecutionPolicy Bypass -File """"C:\Users\dvoracek.MYQ\Desktop\Standalone DDI\MyQDDI.ps1""""' -Verb RunAs}":

Or use the attached *.bat file which must be in the same path as the script.

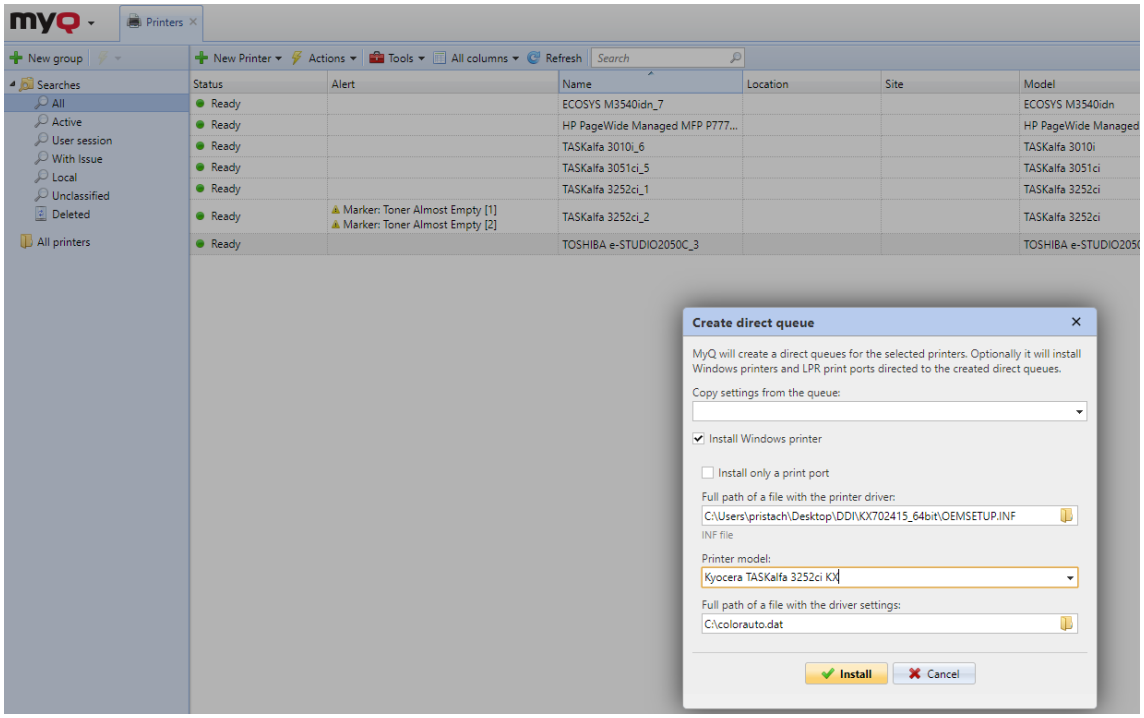


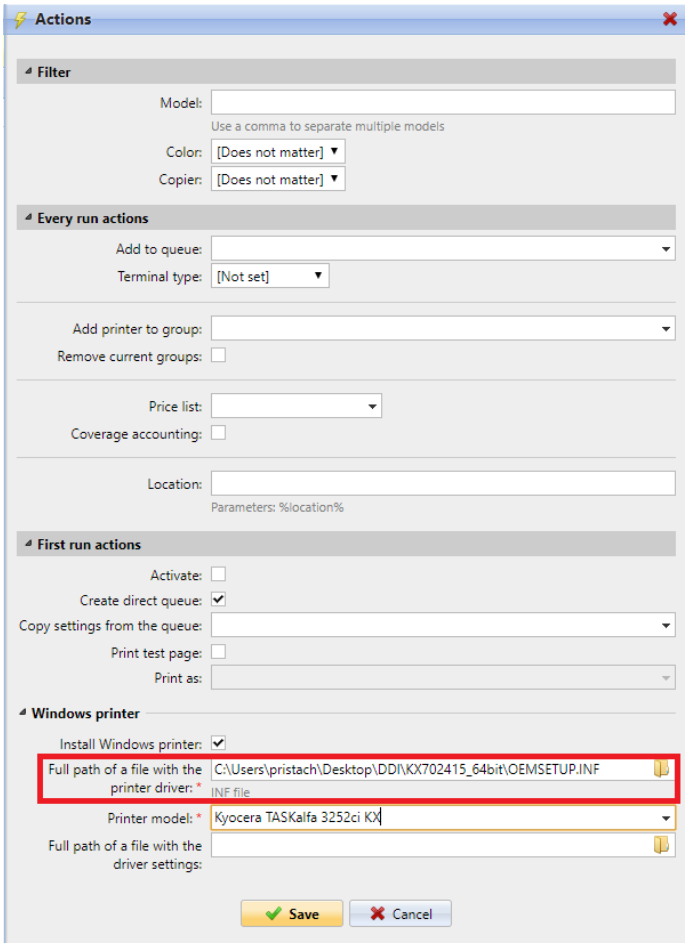
To see if all the operations were successful, you can also check the MyQDDI.log.



2.4 MyQ Print Driver Installer

This script is also used in MyQ for print driver installation in the MyQ web administrator interface from the **Printers** main menu and from the **Printer Discovery** settings menu:


myQ
Printers
New group
New Printer
Actions
Tools
All columns
Refresh
Search
Searches
All
Active
User session
With Issue
Local
Unclassified
Deleted
All printers
Status
Alert
Name
Location
Site
Model
Ready
ECOSYS M3540idn_7
ECOSYS M3540idn
HP PageWide Managed MFP P777...
HP PageWide Managed
TASKalfa 3010i_6
TASKalfa 3010i
TASKalfa 3051ci_5
TASKalfa 3051ci
TASKalfa 3252ci_1
TASKalfa 3252ci
Marker: Toner Almost Empty [1]
Marker: Toner Almost Empty [2]
TASKalfa 3252ci_2
TOSHIBA e-STUDIO2050C_3
Create direct queue
MyQ will create a direct queues for the selected printers. Optionally it will install Windows printers and LPR print ports directed to the created direct queues.
Copy settings from the queue:
Install Windows printer
Install only a print port
Full path of a file with the printer driver:
C:\Users\pristach\Desktop\DDI\KX702415_64bit\OEMSETUP.INF
INF file
Printer model:
Kyocera TASKalfa 3252ci KX
Full path of a file with the driver settings:
C:\colorauto.dat
Install
Cancel


Actions
Filter
Model:
Use a comma to separate multiple models
Color:
[Does not matter]
Copier:
[Does not matter]
Every run actions
Add to queue:
Terminal type:
[Not set]
Add printer to group:
Remove current groups:
Price list:
Coverage accounting:
Location:
Parameters: %location%
First run actions
Activate:
Create direct queue:
Copy settings from the queue:
Print test page:
Print as:
Windows printer
Install Windows printer:
Full path of a file with the printer driver: *
C:\Users\pristach\Desktop\DDI\KX702415_64bit\OEMSETUP.INF
INF file
Printer model: *
Kyocera TASKalfa 3252ci KX
Full path of a file with the driver settings:
Save
Cancel

For the print driver settings it is necessary to create the .dat file:

This configuration file is very helpful if you want to change the default settings of the print driver and use your own settings. For example, if you want the driver to be in monochrome mode and set the duplex print as default.

To generate the .dat file, you need to install the driver on any PC first and configure the settings defaults to the status you want. The driver must be the same as the one you will install with MyQ DDI!

After you set up the driver, run the following script from the command line:
rundll32 printui.dll PrintUIEntry /Ss /n "MyQ mono" /a "C:\DATA\monochrome.dat" g u d r

Just use the correct driver name (parameter /n) and specify the path (parameter /a) to where you want to store the .dat file.

Limitations

The TCP/IP monitor port on Windows **has a limitation** for the length of the **LPR Queue name**.

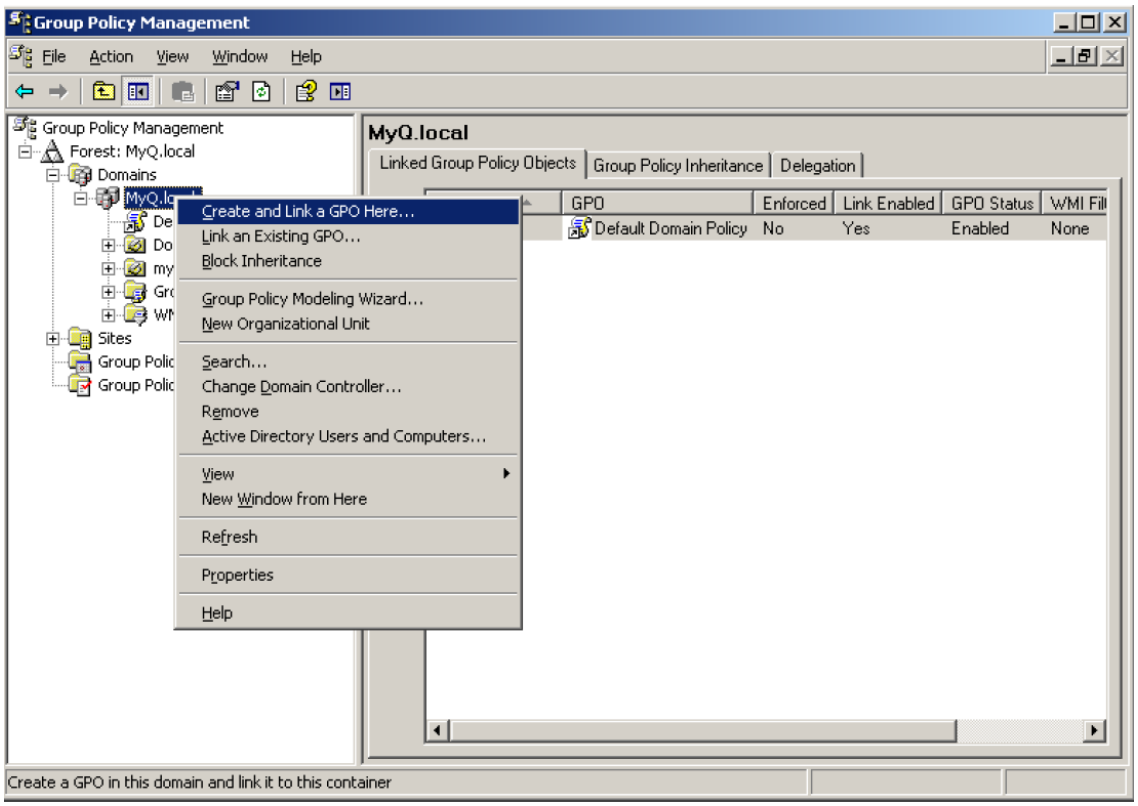
- The length is a maximum of 32 chars.
- The queue name is set by the printer name in MyQ, so if the printer name is too long then:
    - The name of the queue should be shortened to a maximum of 32 chars. To avoid duplications, we use the ID of the printer related to the direct queue, convert the ID to 36-base and append to the end of the queue name.
    - **Example:** Lexmark_CX625adhe_75299211434564.5464_foo_booo and ID 5555 **converted to** Lexmark_CX625adhe_7529921143_4AB

3 MyQ DDI Implementation to a Domain Server

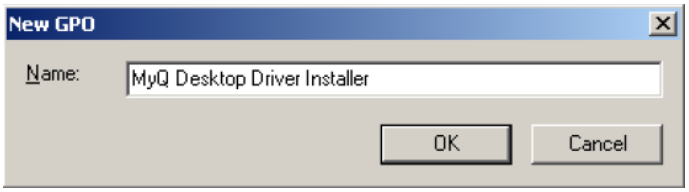
On the domain server, run the Group Policy Management application from the Windows Start menu. You can alternatively use the *[Windows + R]* key and *run* ***gpmc.msc*** .

3.1 Creating a new Group Policy Object (GPO)

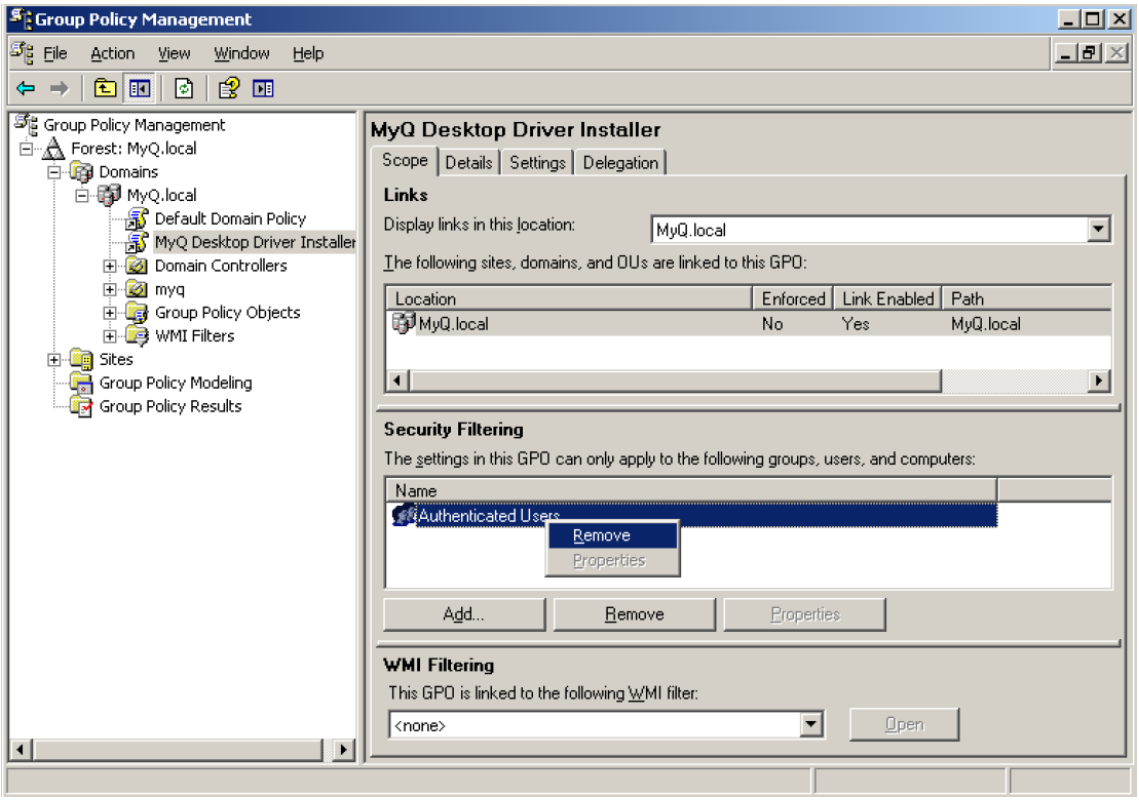
Create a new GPO over the group of all the computers/users you want to use MyQ DDI for. It is possible to create a GPO directly on the domain, or on any subordinate Organization Unit (OU). It is recommended to create the GPO on the domain; if you want to apply to selected OUs only, you can do it later in the next steps.



After you click on **Create and Link a GPO Here...**, enter a name for the new GPO.

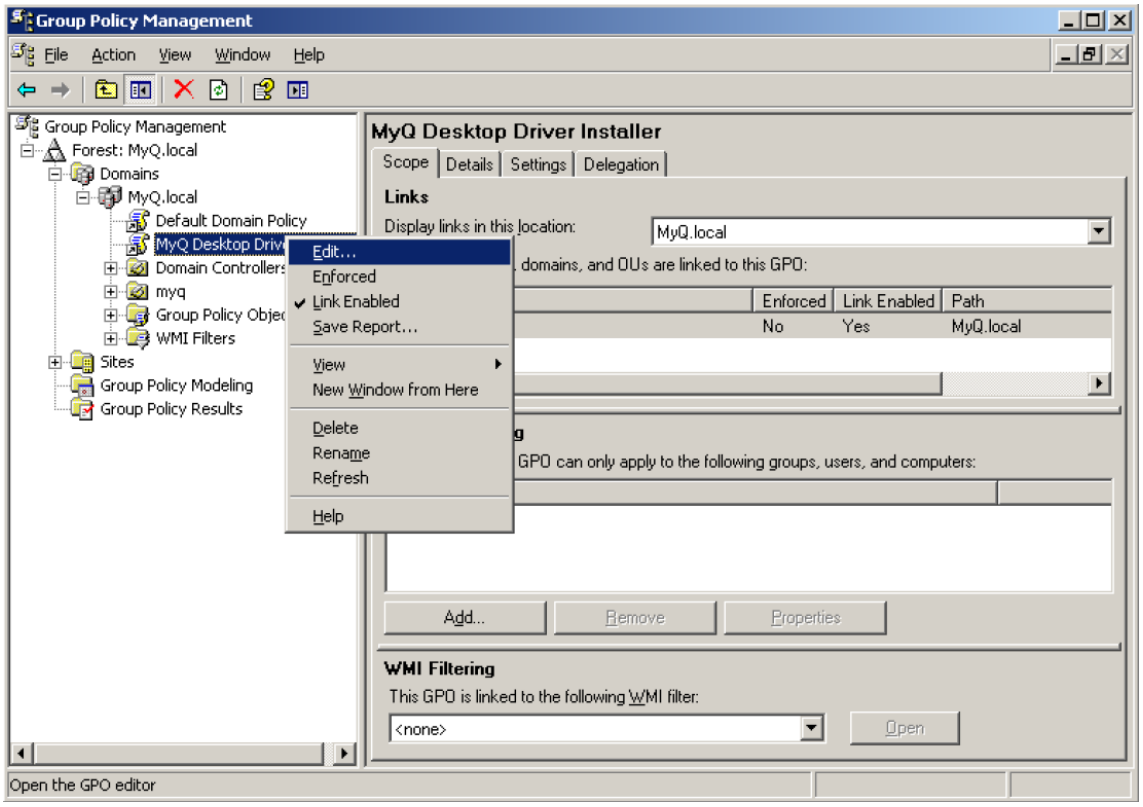


The new GPO appears as a new item in the tree on the left side of the Group Policy Management window. Select this GPO and in the Security Filtering section, right click on *Authenticated Users* and select **Remove**.



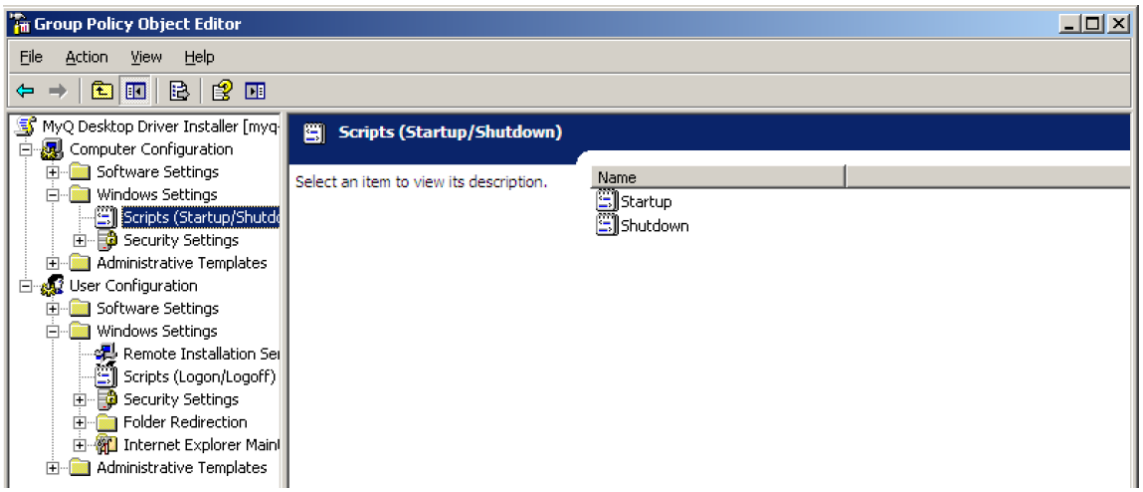
3.1.1 Modifying Startup or Logon script

Right click on the GPO and select **Edit**.

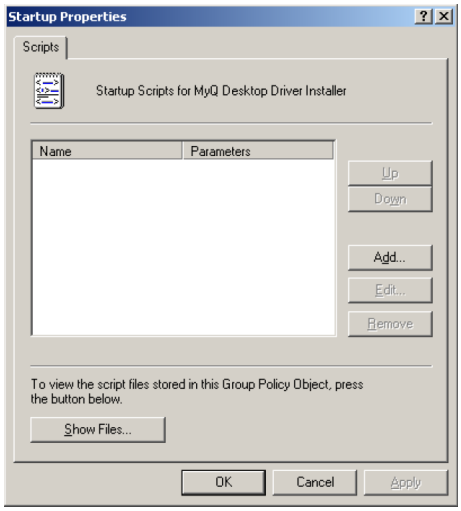


Now you can select if you want to run the script upon the computer's startup or the user's login. It is recommended to run MyQ DDI upon the computer's startup, so we will use it in the example in the next steps.

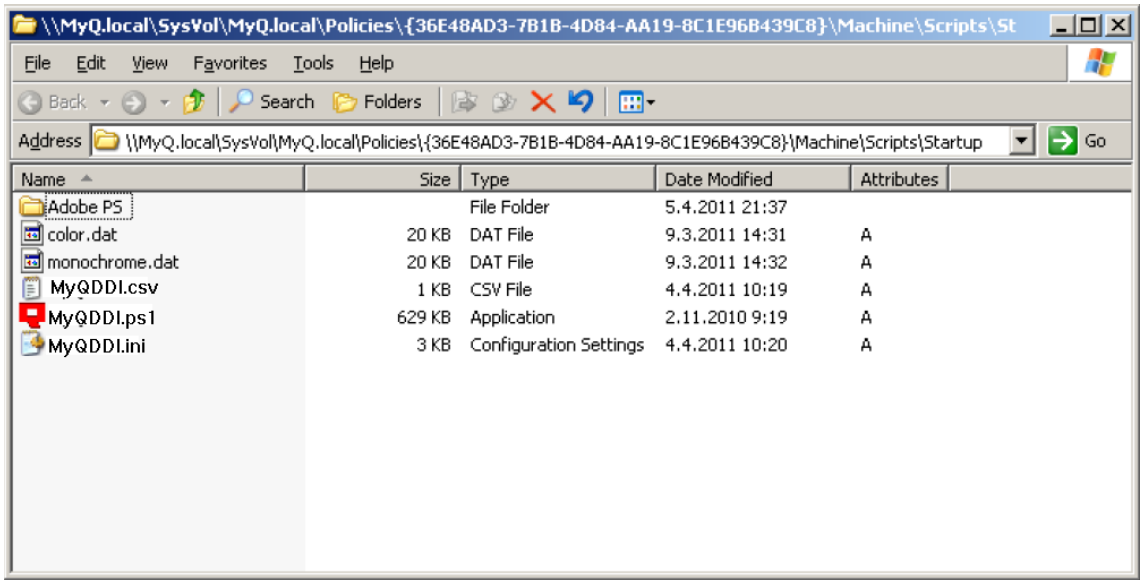
In the *Computer Configuration* folder, open *Windows Settings* and then *Scripts (Startup/Shutdown)*.



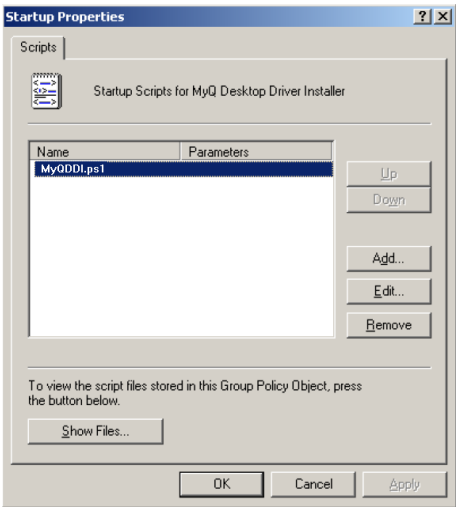
Double-click on the *Startup* item. The Startup Properties window opens:



Click the **Show Files** button and copy all the necessary MyQ files described in the previous chapters to this folder.



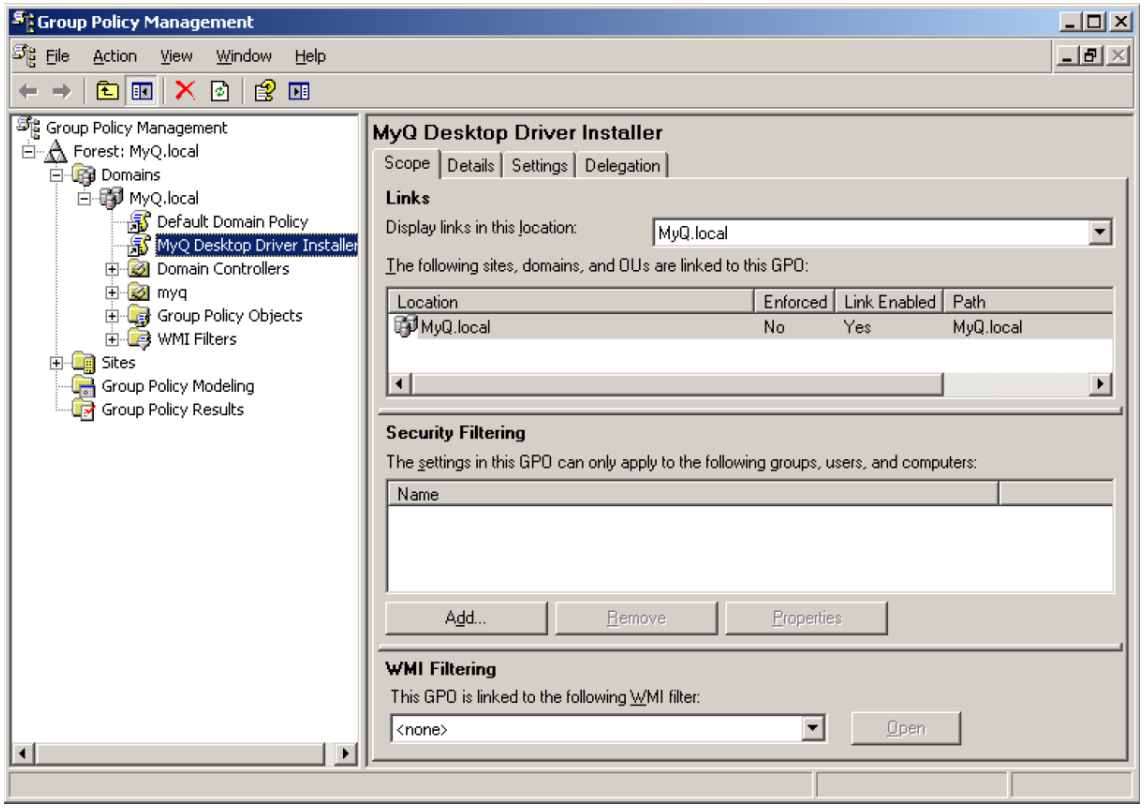
Close this window and return to the Startup Properties window. Select **Add...** and in the new window click on **Browse** and select the MyQDDI.ps1 file. Click **OK**. The Startup Properties window now contains the MyQDDI.ps1 file and looks like this:



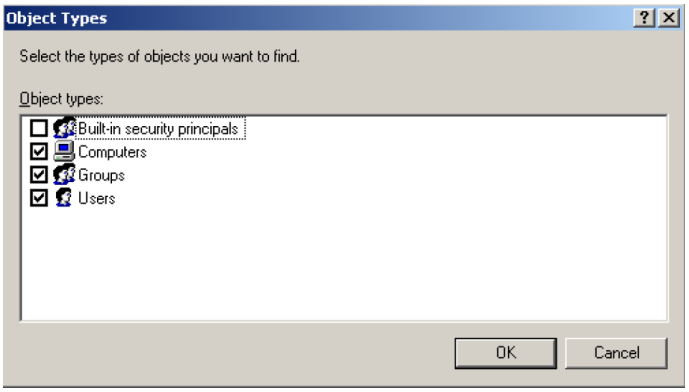
Click **OK** to go back to the GPO editor window.

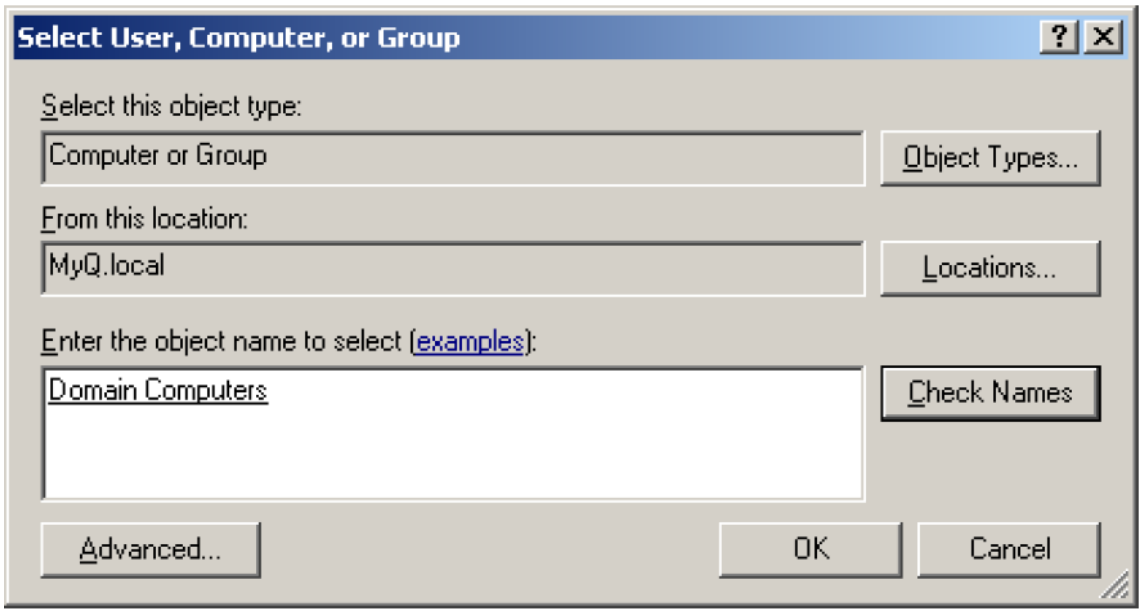
3.1.2 Setting objects and groups

Select again the MyQ DDI GPO you created, and in the Security Filtering section define the group of computers or users where you want MyQ DDI to be applied.



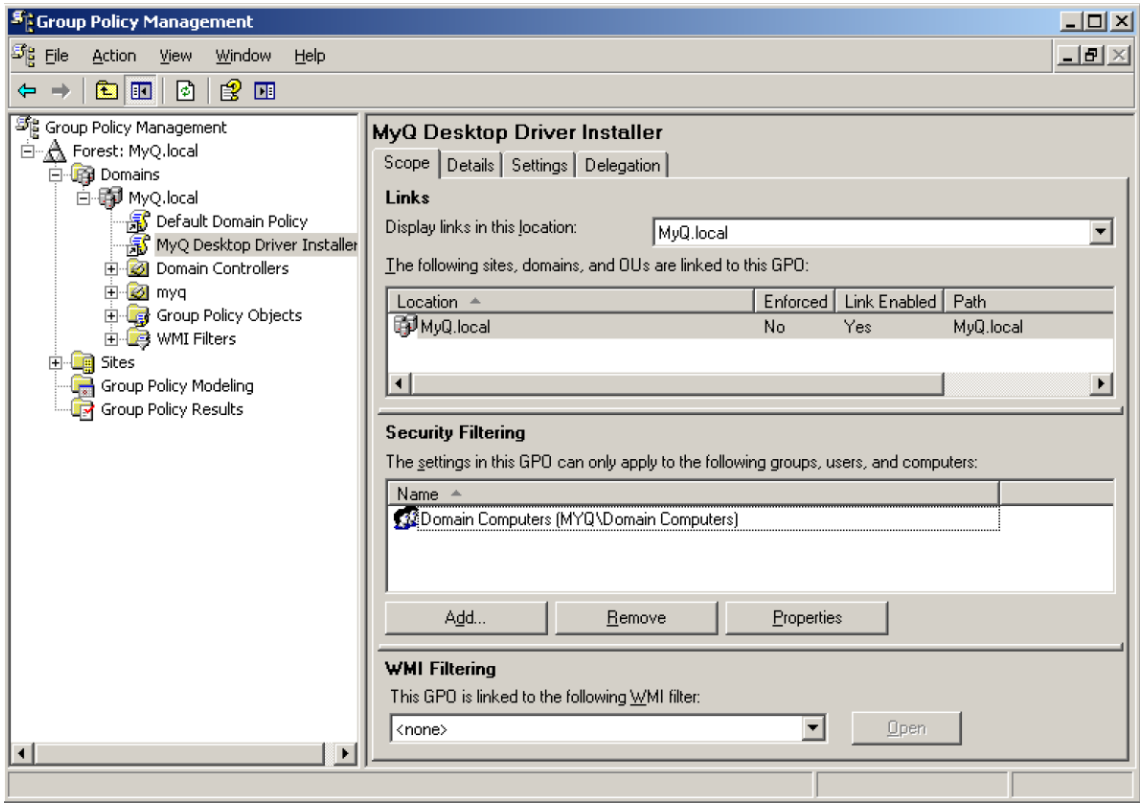
Click **Add...** and first select the object types where you want to apply the script. In case of a startup script, it should be computers and groups. In case of a logon script, it should be users and groups. After that, you can add the individual computers, groups of computers or all the domain computers.





Before you apply the GPO to the group of computers or to all the domain computers, it is strictly recommended to select only one computer and then restart this computer to check if the GPO is applied correctly. If all the drivers are installed and are ready to print to MyQ server, you can add the rest of the computers or groups of computers to this GPO.

Once you click **OK**, MyQ DDI is ready to be automatically run by the script every time any domain computer is switched on (or every time a user logs in if you used the logon script).



4 Business Contacts

MyQ® Manufacturer	**MyQ® spol. s r.o.** Harfa Business Center, Ceskomoravska 2532/19b, 190 00 Prague 9, Czech Republic ID no. 615 06 133 MyQ® spol. s r.o. is registered in the Commercial Register at the Municipal Court in Prague, file no. C 29842 (hereinafter as "MyQ®")
Business information	http://www.myq-solution.com info@myq-solution.com[2]
Technical support	support@myq-solution.com[3]
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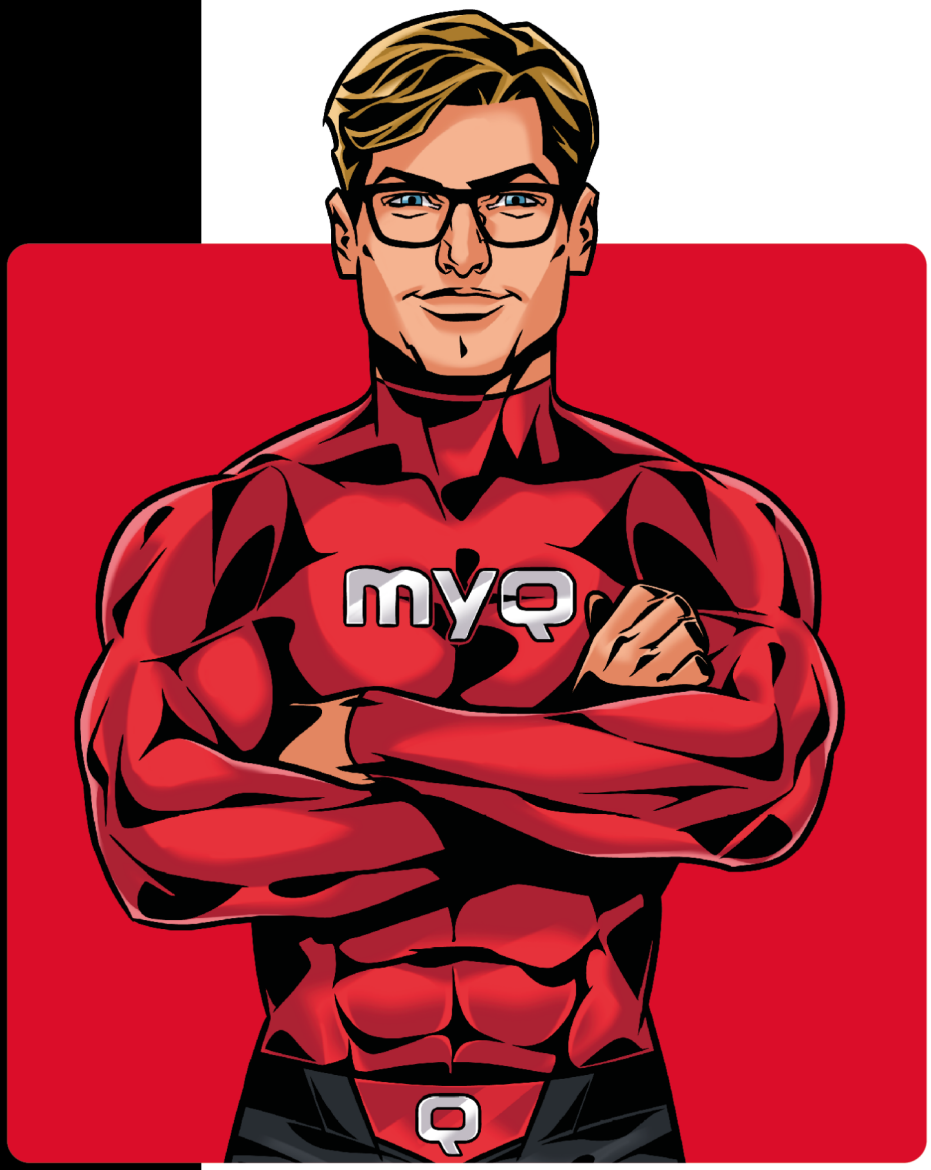

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