

# **PrinterExplorer**

# Multi host print queue management, setup for generic drivers, the Canon Family drivers and the Lexmark Universal driver

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### Introduction

The PrinterExplorer is a Windows based program used to manage and setup printer queues on different print servers in a domain environment. PrinterExplorer can display all print queue settings and the print jobs of each of these queues. Most print queue settings can be changed directly within the GUI. When creating new print queues PrinterExplorer requests device information, chooses the correct driver and creates the queue with all necessary settings all with one click. PrinterExplorer is able to set up multiple print queues from a CSV-file without any user interaction. In addition to that PrinterExplorer can deploy default driver settings to the printer drivers.

PrinterExplorer supports the Canon Generic PS and PCL driver as well as the Canon Family PS and PCL Driver.

Note: PrinterExplorer is made for the use of generic drivers. So for none Canon drivers only one driver for each vendor is used (x86 and x64).

# **Requirements / Restrictions**

PrinterExplorer does not install printer drivers. You have to install the printer drivers for x86 and/or x64 environments manually on each server and pass the driver names in the 'PrinterExplorer.ini' file. PrinterExplorer will then use these drivers for setting up the print queues.

PrinterExplorer fully supports the drivers "Canon Generic PS3 Driver" version 1.0.x (VW-Version), the "Canon Generic PS3 Driver2" version 1.0.x , the "Canon Generic PCL6 Driver" version 1.1.x and version 3.0.2 and the "Lexmark Universal v2 XL" version 2.9.x for the Lexmark CX510 and MX610 printers only.

Since Version 2.5.0 PrinterExplorer also supports The "Canon Generic Plus PCL6 Driver" version 1.51 and the "Canon Generic Plus PS3 Driver" version 1.20. You may also use any vendors generic drivers with this tool, but the reading and setting of device options, like for example the staple option, is only available when using the "Canon Generic PS3 Driver", the "Canon Generic PS3 Driver2", the "Canon Generic PCL6 Driver", The "Canon Generic Plus PCL6 Driver", the "Canon Generic Plus PS3 Driver" and the "Lexmark Universal v2 XL" and only for Canon and Lexmark devices. Devices and drivers from other vendors may function as well but are not tested.

Since version 2.0 PrinterExplorer also supports the Canon Family PCL5e and PS Drivers version 21.x.

PrinterExplorer needs administrative rights to run proberly. If you want to use PrinterExplorer to mangage printer queues on multiple print servers at once you need a domain administrative account in which PrinterExplorer has to be started. If you want to read or set device options on other that the local server, the foreign servers has to run the "Microsoft Windows Remote Registry services" in order to get access to the registry of the foreign servers.

The PrinterExplorer configuration files are stored in the hidden "CommonAppData" folder (normally "c:\ProgramData\PrinterExplorer"). You can access this folder from the file menu in the graphical user interface.

PrinterExplorer needs to have write access to this folder. When starting the program once with the option "Run as administrator", PrinterExplorer will check and try to create these rights automatically.

Since version 2.11.0 and the SNMPv3 support PrinterExplorer needs the .Net Framework 4.0 (at least the client package) installed before program installation.

### Setup

Just run the InstallShield setup and follow the instructions. PrinterExplorer will work on Windows XP up to Windows Server 2016 in x86 and x64 environments.

### **Base configuration**

Before using the PrinterExplorer, you have to edit the PrinterExplorer.ini file in the program data directory (Menu "File" / "Open Program Data Folder"). (e.g. c:\ProgramData\PrinterExplorer)

[PrinerExplorer ini-File] Version=2.0.3

[Settings] LocationCommentExportHeader=PrinterName;Location;Comment

GenericDriverName1=Canon Generic PS3 Driver GenericDriverName2=Canon Generic PCL6 Driver

FamilyDriverName1=Canon iR-ADV C5235/5240 PCL5c FamilyDriverName2=Canon LBP6680/3480 PCL5e FamilyDriverName3=Canon LBP7680C/5280 PCL5c FamilyDriverName4=Canon iR-ADV C2220/2230 PCL5c FamilyDriverName5=Canon iR-ADV 400/500 PCL5e UseCanonGenericPCL6v3=1

Language=EN SNMPCommunity=public SNMPv3=0 SNMPv3User= SNMPv3Password= OnlyShowKnownDrivers=0 SetPublished=0

[VW] SetLexmarkAsCanon=1 UseQueueNameAsHostname=1 TruncateHostName=1 AddDomainSuffix=

UseLPRQueueNameAsHostName=0 UseCanonMode=1

[Paths] SpoolPath=c:\windows\system32\spool\printers

[Servers] ;1=MyServer;192.168.0.10 The following lines have to be changed to fit to your environment:

- GenericDriverNameX
  - Edit or create a line with an increasing number and the generic driver names PrinterExplorer should automatically detect. Enter one line for each vendor you want to support.
- UseCanonGenericPCL6v3

You can only use one of the two driver versions the Canon generic PCL6 driver. By setting this option to "1" (default) PrinterExplorer works in the mode for the Generic PCL6 version 3.x. Otherwise it works in the mode for the driver version 1.1.x.

- FamilyDriverNameX

Edit or create a line with an increasing number and the Canon Family Driver names PrinterExplorer should automatically detect. Enter one line for each Canon Family Driver you want to use.

- SNMPCommunity PrinterExplorer requests the device information like vendor name or device options via SNMP. If your devices use a different SNMP community other then 'public' you have to change this setting.
- SNMPv3, SNMPv3User, SNMPv3Password
   If the option SNMPv3 is set to "1" PrinterExplorer will only request data from
   the devices via SNMPv3 protocol. Entries for SNMPv3User and
   SNMPv3Password have to be made either. The entry for SNMPCommunity
   will not be used if SNMPv3 is used.
- SetPublished

If this option is set to "1" and the printer is shared PrinterExplorer will publish the printer in the windows directory.

- SpoolPath

Enter the spool path that is configured in your windows environment.

- [Servers]

Enter an increasing number starting with 1 and followed by an equal sign, the name of the server you want to see in PrinterExplorer and IP address or the Hostname of your server. Enter one line for each server you want to manage. The local server is always configured automatically.

Note: Duplicate entries of server names or IP addresses are automatically filtered out.

# The Ports.ini File

When PrinterExplorer creates new printing queues it always checks if the needed printer port is just available. If not it creates the printer port.

For the port creation the "Ports.ini" file in the program data directory (Menu "File" / "Open Program Data Folder") is used.

[PrinterExplorer Ports Definition File] Version=1.6.0 [DefaultPortSettings] ;set fix values or variables. \$QueueName\$ and \$HostName\$ are allowed variables. ;PortType: 1=Raw, 2=LPR PortType=1 ;PortNumber 9100 for RAW and 515 for LPR printing: PortNumber=9100 ;if PortName is empty, the name in the port creation call is used PortName= ;LPRQueueName is only used by LPR printing: LPRQueueName= ;PortHostAddress: By default the PortHostAddress is the same as the Hostname of the printer. ;If it should be the address of a CDDS Server for example, you can change It here: PortHostAddress= SNMP=0 DoubleSpool=

[PortSettings 1] Name=pull-printing PortType=2 PortNumber=515 PortName=\$QueueName\$ LPRQueueName=pull-printing SNMP=0 DoubleSpool=0

[PortSettings 2] Name=direct print PortType=2 PortNumber=515 PortName=\$QueueName\$ LPRQueueName=\$QueueName\$ SNMP=0 DoubleSpool=0

After setup you will find these port settings in the "Ports.ini" file. The "[DefaultPortSetting]" is used if no other port setting is defined during queue creation. It creates a RAW printing port using port 9100. You may change this setting as you need. Please follow the comments in the "Ports.ini" file.

"[PortSettings 1]" and [PortSettings 2]" are special settings for queue- and portcreation when using a CDDS server.

### **Detecting device options for the Canon Generic Driver**

The device options of Canon devices will be automatically read during device creation or if a Canon device is chosen in the device list of the program. The device has to be online for this function.

PrinterExplorer tries to set the correct device options in the generic driver so after the automatic device creation with PrinterExplorer there is nothing more to be configured.

The PrinterExplorer reads all device options and uses a lookup table to find the corresponding option in the generic driver. The lookup table is in the PrinterExplorer data directory (Menu "File" / "Open Program Data Folder") and is named "DeviceOptions.ini". The generic driver options are:

viRC5235 Properties	
General Sharing Ports Advanced Color Managemen	nt Security Device Settings
☑ Use Canon Device Mode	
Device Type:	Color [A3]
Language:	English
Number of Drawers:	4
✓ 2-sided Printing	
Staple	
Allow Staple Position Selection	
Hole Punch	
Storage Options	
Secured Print	
Use Department ID Management(J)	Settings
Set User Information(L)	Settings(W)
Details	Get Device Status About
	OK Cancel Apply Help

Fig. 1: Canon Generic PS Driver

The device type, 1-5 paper sources, the duplex print, stapling, hole punching, saddle stitching and mailbox print.

### Example:

An iR-ADV5030 has a Canon finisher A1. This finisher is capable of stapling. So the PrinterExplorer needs to have an entry in the lookup table that the finisher A1 on an iR-ADV5030 needs the staple option to be checked in the generic driver.

The lookup table is provided with the PrinterExplorer setup. In some cases you have to append this lookup table with your device information.

To get all device options from a new device, configure and select the device in PrinterExplorer. If the device is online you will see all device options in the right bottom list:



Fig 2: Online Informations

Here is an example line from the DeviceOptions.ini file from the section for the Generic Driver:

*iR-ADV C50=A3c;C50~Duplex;C50~PaperSource2;C50~Mailbox;AD1~PaperSource4;Finisher-A1~Staple;Deck Unit-B1~PaperSource5;Finisher-J1~Staple;Finisher-J1~SaddleStitch;Finisher-C1~SaddleStitch;Puncher~HolePunch* 

Before the equal sign there is the device name. Behind the equal sign follows the device type (A4, A4c, A3 or A3c). Then there is a listing of all search words followed by the corresponding device option. All entries are delimited by a semicolon. The pair of search word and device option is delimited by a tilde sign. All possible device option strings are:

PaperSource1, PaperSource2, PaperSource3, PaperSource4, PaperSource5, Duplex, Staple, HolePunch, SaddleStitch and Mailbox.

The shown example line can be described as follows:

The device iR-ADV C50xx is an A3 color model. Because it is a C50xx it is able to make duplex prints. By default the C50xx has two paper sources. If there is a paper deck AD1 we have 4 paper sources. If there is a Deck Unit B1 we have 5 paper sources. If we have a Finisher-A1 the device is able to staple....

You can always download the newest version of the DeviceOptions.ini file from: https://rotto.eu/files/DeviceOptions.ini

# **Detecting device options for the Canon Family Driver**

The device options of Canon devices will be automatically read during device creation or if a Canon device is chosen in the device list of the program. The device has to be online for this function.

PrinterExplorer tries to set the correct device options in the family driver so after the automatic device creation with PrinterExplorer there is nothing more to be configured.

The PrinterExplorer reads all device options and uses a lookup table to find the corresponding option in the family driver. The lookup table is in the same file as for the generic drivers. It is located in the PrinterExplorer data directory (Menu "File" / "Open Program Data Folder") and is named "DeviceOptions.ini". The family driver options are depending on the selected driver for each model:

🖶 iRC5235 Family Properties		×
General Sharing Ports Advance	ed Color Management Security Geräteeinst	ellungen Profil
Geräteeinstellungen: Auto		
	Papierzufuhroptionen:	Kassetten-Zufuhreinheit
		Papiermagazineinheit
		Zufuhreinheit für Briefumschlage
	Ausgabeoptionen(1):	Ohne
		Ausgabe(2)
~•		Zusätzliches Fach Innerer Finisher
	Externe Lochereinheit:	Ohne
	Funktion mit geschütztem Druck des Ger	äts
	Spoolen auf Host:	Auto
	Verwaltung Abteilungs-ID verwenden(J)	Einstellungen
	Benutzerangaben festlegen	Einstellungen
	Mailboxnummer beim Speichem einstellen	1
		Details(Q) Format-zu-Fach-Zuweisung
		Gerätestatus abfragen Info
		OK Cancel Apply Help

Fig. 3: Canon Family PCL Driver (here for iR-ADV C5235 in German language)

Different paper feeding units, the different finisher options, the different punching options, an out tray 2, an inner tray 2, the envelope feeder and an optional HDD.

#### Example:

An iR-ADV5235 has a Canon finisher A1. So the PrinterExplorer needs to have an entry in the lookup table that the finisher A1 on an iR-ADV5235 is a staple finisher. The lookup table is provided with the PrinterExplorer setup. In some cases you have to append this lookup table with your device information.

To get all device options from a new device, configure and select the device in PrinterExplorer. If the device is online you will see all device options in the right bottom list:



Fig 4: Online Informations

Here is an example line from the DeviceOptions.ini file from the section for the Family Driver:

iR-ADV C52=C52~PaperSource2;AD2~PaperSource4;Deck Unit-B1~PaperSource5;C52~FinishNone;Finisher-C1~FinishInner;Finisher-A1~FinishStaple;Finisher-J1~FinishBooklet;C52~PunchNone;Puncher~Punch24Hole

Before the equal sign there is the device name. Behind the equal sign there is a listing of all search words followed by the corresponding device option. All entries are delimited by a semicolon. The pair of search word and device option is delimited by a tilde sign. All possible device option strings are:

PaperSource1, PaperSource2, PaperSource3, PaperSource4, PaperSource5, FinishNone, FinishAddTray, FinishInner, FinishStaple, FinishBooklet. PunchNone, Punch2Hole, Punch23Hole, Punch24Hole, Punch4Hole, OutTray2, InnerTray2, EnvelopeFeed, HDD.

The shown example line can be described as follows:

The device entry is for an iR-ADV C52xx. By default the C52xx has two paper sources (C52~PaperSource2). If there is a paper deck AD2 we have 4 paper sources (AD2~PaperSource4). If there is a Deck Unit B1 we have 5 paper sources (B1~PaperSource5). By default the C52xx has no finisher (C52~FinishNone). If we have a Finisher-A1 the device has a staple finisher (Finisher-A1~FinishStaple). If we have a Finisher-J1 the device has a booklet finisher (Finisher-B1~FinishBooklet) ....

You can always download the newest version of the DeviceOptions.ini file from: https://rotto.eu/files/DeviceOptions.ini

The Graphical User Interface (GUI)
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Actors       Printer Control       Language       Period         Servers:       1       Search field       IF Riter unknown drivers       Printers:         Canon IB-ADV C2220/2030 PCL5c       Canon IB-BSB0/3400 PCL5c       Canon IB-BSB0/3400 PCL5c       Canon IB-BSB0/3400 PCL5c         Canon IB-RSB0/2430 PCL5c       Canon IB-RSB0/2430 PCL5c       Printers:       Printers:         Severe Name       Queue Name       Change       Printers:       Printers:         Driver Name       Queue Name       Default Setting:       Pointer Information         Canon Generic PS3 Driver       PS500       Online State       Pointer Information         Obevice I job       Print job via LPR to this IP:       Image:       Printers:       Canon Section         Canon Calo       Print job via LPR to this IP:       Pointers:       Printers:       Printers:         Canon Calo       Print Port Name       <	rinterExplorer - v2.0.0			
Delvers       Jeweis	Actions Printer Control Lang	Genuera: 1	Search field	☑ Filter unknown drivere Printere: 1
Caron IB-P680/3460 PCL5c         Caron LB-P680/3460 PCL5c         Caron Change         Pott P         Pott P         Pott P         Caron Generic         Pilot List         Host Name/IP         Caron LB-P600         Caron LB-P600         Caron Send Function         Caron LB-P601         Caron Send Function         Caron LB-P601         Caron Send Function	calhost: WMC	3619615. 1	Jealonnield	
Cancel job       Print job via LPR to this IP:         Cancel job       Print job			,	
Intervice Information         Service Information       Show ports         Service Information       Queue Name         Service Name       Queue Name         MMC       IR500 Generic         Location       Change         Online Comment       Change         Port Name       Port Name         Default Setting       State         Driver Name       Port Name         Default Setting       State         Driver Name       Port Name         Default Setting       State         User       Job         Idb List       Host Name/IP         User       Job         Cancel job       Print job via LPR to this IP.         Canon Cancel job       Print job via LPR to this IP.         Canon Castelt       Module A1         Canon Comment       Conset In Module A1         Canon Super G3 FAX Line-1       Canon Super G3 FAX Line-1         Driver Type       Default Settings         generic       Pot Settings         generic       Create devices from file			Canon iR-ADV C Canon LBP6680, Canon LBP76800 iR500 Family	2220/2230 PCL5c /3480 PCL5e C/5280 PCL5c
Show ports         Device Information         Server Name       Queue Name       Change       Share Name       Default Settings       Default Settings         Caccion       Change       Comment       Change       Driver Information         Driver Name       Port Name       Default Setting       Set Paper Sources         Driver Name       Port Name       Default Setting       V       Queue Name         Driver Name       Port Name       Default Setting       V       Duplex       V Canon Mode         Canon Generic PS3 Driver       IR500       Image       Staple       Saddle Stitch         Iob List       Host Name/IP       IR500       Online State       Online Information       (only available if 'Online State' is green)         Devices       Device/Port IP       Port Name       Image Reader       Canon Document Feeder         Canon Super IG3 FAX Line-1       Port Settings       Port Settings       Image Reader       Canon Super IG3 FAX Line-1         Driver Type       Default Settings       Port Settings       Port Settings       Image Reader       Canon Super IG3 FAX Line-1         Driver Type       Default Settings       Port Settings       Port Settings       Set device options in driver			iR500 Generic iRC5235 Family LBP6680 Generic	0
Show pots         Device Information         Server Name       Queue Name       Change         WMC       IR500 Generic       Driver Information         Location       Change       Port IP         Change       Port IP       Change         Driver Name       Port Name       Default Setting         Driver Name       Port Name       Default Setting         Diver I Most Name/IP       IF500       Image         Iob List       Host Name/IP       IF500         Location       Online State       Image         User       Job       Time         Iob List       Print job via LPR to this IP:       Online Information         Levue Name       Device/Port IP       Port Name         Iewue Name       Device/Port IP       Port Name         Driver Type       Default Settings       Port Settings         generic       Default Settings       Port Settings         generic       Default Settings       Set device options in driver				
Show ports     Device Information   Server Name Queue Name Change MMC Fi500 Generic Cocation Change Comment Change Fi7500 Driver Name Port Name Port Name Default Setting Set Canon Generic PS3 Driver Fi7500 Port Name Port Settings Port Setting Port Port Port Port Port Port Port Port				
Device Information         Server Name       Queue Name       Change       Share Name       Change       Driver Information         MMC       IR500 Generic       Driver Information       Device Type       Paper Sources         Location       Change       Port IP       Change       Ad b/w       2       ✓         Driver Name       Port Name       Default Setting       Set       Staple       Saddle Stitch         Dob List       Host Name/IP       IR500       Image       Online State       Set       Staple       Saddle Stitch         User       Job       Time       Online Information       Online Information       Online Information         Queue Name       Device/Port IP       Time       Online Information       Canon Send Function       Canon Send Function         Queue Name       Device/Port IP       Port Name       Canon Cassette Module-AA1       Canon Sasetef Module-AA1         Queue Name       Device/Port IP       Port Settings       Port Settings       generic       Set device options in driver			Show ports	
Server Name Queue Name Change Share Name Change   MMC iR500 Generic   Location Change   Online Comment   Canon Generic PS3 Driver iR500   Driver Name Default Setting   Canon Generic PS3 Driver iR500   Iob List Host Name/IP   Iob List Host Name/IP   Iob List Host Name/IP   Iob List Default Setting   Default Setting Set   Iob List Iob   Default Setting Set      Online State   Iob List Iob via LPR to this IP:      Iew Devices   Queue Name   Device/Port IP   Port Name   Share Name   Location   Comment   Control   C	evice Information			Default Settings
WMC iR500 Generic   Location Change   Comment Change   Port IP Change   iR500 iR500   Driver IName Default Setting   Canon Generic PS3 Driver iR500   Ibb List Host Name/IP   Idb List Job   User Job   Cancel job Print job via LPR to this IP:   Iew Devices Image   Iew Devices Image   Device/Port IP Port Name   Device/Port IP Port Name   Device Port IP Port Name   Driver Type Default Settings   generic Image   Default Settings Port Settings   generic Image   Create new device Create devices from file	Server Name	Queue Name Change	Share Name Change	
Location Change Comment Change Port IP Change   Driver Name Port Name Default Setting Set   Canon Generic PS3 Driver iR500 Image Staple Staple   Job List Host Name/IP R500 Image Online State   User Job Image Online State   User Job Image Online State   Cancel job Print job via LPR to this IP: Image   Rew Devices Image Device/Port IP   Rew Devices Image Device/Port IP   Device Port Settings Port Settings   generic Image   Default Settings Port Settings   generic Image   Create new device Create devices from file	WMC	iR500 Generic		Driver Information
Driver Name       Port Name       Default Setting       Set         Canon Generic PS3 Driver       iR500       Image: Canon Mode         Idob List       Host Name/IP       iR500       Image: Canon Mode         Idob List       Host Name/IP       iR500       Image: Canon Mode         User       Job       Image: Canon Mode       Staple       Stadle Stitch         User       Job       Image: Canon Mode       Staple       Stadle Stitch         Cancel job       Print job via LPR to this IP:       Image: Canon Mode       Staple       Staple         Lew Devices       Device /Port IP       Port Name       Device Options       Image: Canon Super G3 FAX Line-1         Share Name       Location       Comment       Image: Canon Super G3 FAX Line-1       Image: Canon Super G3 FAX Line-1         Driver Type       Default Settings       Port Settings       Image: Canon Super G3 FAX Line-1       Image: Canon Super G3 FAX Line-1         Driver Type       Default Settings       Port Settings       Image: Canon Super G3 FAX Line-1       Image: Canon Super G3 FAX Line-1         Create new device       Create devices from file       Set device options in driver       Image: Canon Super Ga FAX Line-1	_ocation Change	Comment Change	Port IP Change	Device Type Paper Sources
Driver Name Port Name   Canon Generic PS3 Driver     IR500     Iob List     Host Name/IP     IDer Job     Inver Job     Inver Int job via LPR to this IP:     Inter Int job via LPR to this IP: <td></td> <td></td> <td> iR500</td> <td></td>			iR500	
Canon Generic P33 Driver       In Stot       Stable State         Iob List       Host Name/IP       IFS00       Online State         User       Job       Time       Online Information         Cancel job       Print job via LPR to this IP:       Online Information         Lew Devices       Image: State       Image: State         Queue Name       Device/Port IP       Port Name         Share Name       Location       Comment         Driver Type       Default Settings       Port Settings         generic       Create new device       Create devices from file	Driver Name	Port Name	Default Setting Set	Canon Mode
Host Name/IP iF500   User Job     User Job     Time     Online Information   (only available if 'Online State' is green)   Device Options     iF-ADV 500   Cancel job   Print job via LPR to this IP:     Iew Devices     Queue Name   Device/Port IP   Port Name     Cancel iob        Device/Port IP   Port Name            Share Name   Location   Driver Type   Default Settings   generic      Create new device   Create new device      Online Information (only available if 'Online State' is green) Device Options    Image: Device Options Image: Device Option IP Port Name Device Option IP Port Settings Default Settings    Create devices from file Set device options in driver	Canon Generic F53 Driver	Incon		Hole Punch Mailbox Set
User       Job       Time         User       Job       Time         Online Information       (only available if 'Online State' is green)         Device Options       Device Options         Item Devices:       Item Device/Port IP         Queue Name       Device/Port IP         Device Options       Item Device/Port IP         Share Name       Location         Driver Type       Default Settings         Oriver Type       Default Settings         Oriver type       Default Settings         Oriver type       Create devices from file	lob List Host Name/IP	iR500	Online State	
Cancel job Print job via LPR to this IP:     Cancel job Print job via LPR to this IP:     Iew Devices     Queue Name        Device/Port IP        Port Name     Canon Color Image Reader   Canon Document Feeder   Canon Cassette Module-AA1   Canon Cassette Module-AA1   Canon Super G3 FAX Line-1           Driver Type   generic   Create new device         Create devices from file     State Name	User Job		Time	Online Information
Cancel job       Print job via LPR to this IP:         Iew Devices       IR-ADV 500         Queue Name       Device/Port IP         Device/Port IP       Port Name         Share Name       Location         Driver Type       Default Settings         generic       Or Set device options in driver				(only available if 'Online State' is green)
Cancel job       Print job via LPB to this IP:         Lew Devices         Queue Name       Device/Port IP         Port Name         Share Name         Location         Comment         Oriver Type         Default Settings         Port Settings         Oriver Type         Default Settings         Create new device             Create devices from file				Pevice Uptions
Lew Devices       Canon Lotor Image Reader         Queue Name       Device/Port IP       Port Name         Share Name       Location       Comment         Share Name       Location       Comment         Driver Type       Default Settings       Port Settings         generic       Create new device       Create devices from file	Cancel job	Print job via LPR to this IP:		Canon Send Function
Iew Devices       Ouvice/Port IP       Port Name       Canon Cassette Module-AA1         Queue Name       Device/Port IP       Port Name       Canon Super G3 FAX Line-1         Share Name       Location       Comment       Comment         Driver Type       Default Settings       Port Settings       default         Create new device       Create devices from file       Set device options in driver				Canon Color Image Reader
Quede Name     Device/Poil IP       Share Name     Location       Comment       Driver Type       Default Settings       Poil Settings       default       Create new device       Create devices from file	lew Devices	Device /Pert IP	Deut Marrie	Canon Cassette Module-AA1
Share Name       Location       Comment         Driver Type       Default Settings       Port Settings         generic       Image: Create new device       Create devices from file         Create new device       Create devices from file       Set device options in driver	gueue maine			
Driver Type Default Settings Port Settings generic  Create new device Create devices from file Set device options in driver	Share Name	Location	Comment	
Driver Type Default Settings Port Settings generic  Create new device Create devices from file Set device options in driver				
generic     Image: Create new device     Image: Create devices from file     Image: Set device options in driver	Driver Type	Default Settings	Port Settings	
Create new device Create devices from file Set device options in driver	generic 💌		default	<b></b>
	Create new device		Create devices from file	Set device options in driver

Fig. 5: The Graphical User Interface

On the top left list you will find all servers configured in the 'PrinterExplorer.ini' file. By selecting one or more servers from this list and pressing the 'Read' button all print queues of these servers are shown in the device list (upper right).

With the 'Search field' you can filter the printer list by typing in parts of the printer names you want to get as result. If "Filter unkown drivers" is selected, only devices matching the configured generic drivers or the Canon Family drivers will be shown.

By selecting a device in the device list, all device information will be shown in the middle section. You can change device information on those fields which have a "Change" button available. Just edit the device information and press the change button. The changes will be written to the windows queue.

If printjobs are available in the printer queue they will be shown in the "Joblist" section. You can cancel a print job by selecting it and pressing the "Cancel job" button. If you need to output a stucking print job to another device, you can type in

the IP or Hostname in the field right to the "Print job via LPR to this IP:" button and press this button. The job will be sent via LPR command to the given IP or Hostname.

On the middle right section you will see the actual device options of the driver if the selected device driver is a Canon generic or Canon Family driver. You can change each option manually by changing the option and then pressing the "Set" button. If the device is online, PrinterExplorer will immediately read the device options from the device via SNMP and show the results in the "Online Information" frame in the lower right. You can select and copy the device options easily from here to create your own "DeviceOptions.ini" as described before.

By pressing the "Set device options in driver" button, all device options are checked against the lookup table "DeviceOptions.ini" and automatically set to the driver. The "Driver Information" section will be updated also.

Depending on the driver that is used (Canon Generic Driver or Canon Family Driver) the view of the "Driver Information" section will change.

Driver Information-	
Device Type	Paper Sources
A4 b/w 💌	2
🔽 Duplex	🔽 Canon Mode
🔲 Staple	Saddle Stitch
🔲 Hole Punch	Mailbox Set



Fig. 6: Driver Information for the Generic Driver

Fig. 7: Driver Information for the Family Driver

In the bottom section you are able to create new print queues manually or automatically from file (see section "Create new print queues").

### Show Ports

You can display all used printer ports on a server. By pressing the "Show ports" button the following window will open up:

٩	PrinterExplorer - Ports	×
	Available Printer Ports XPSPort: var iR4570 var iR3100C var iR3 var IR2 var IR TPVM: Server_iR2870 server_iR2870 server_iR2870	
	Server LBP5360 RPT2: RPT1: PKBH-Verw-Z PDFFILE:	
	Select Port for Device Information	
	Select Port for New Devices	
	Delete Port	
		_

Fig. 8: Ports Window

After selecting a port, you may use the follwing functions:

"Select Port in Device informations" transfers the ports IP-Address into the "Device/Port IP" field in the "Device Information section" of the main window.

"Select Port for new device" transfers the ports IP-Address and its name into the fields "Device/Port IP" and "Portname" in the "New devices" section of the main window.

"Delete Port" deletes the selected port in windows. Only unused ports are deletable.

# **Default Settings**

With this function you are able to manage the default settings of the printer driver. The default settings are the settings of the driver that will be transferred to a client computer if it connects to a shared printer queue.

For the Canon Generic Drivers the default settings are stored per device type. This means that there are 4 different default settings for each device type (A4 b/w, A4 col, A3 b/w, and A3 col) necessary to deploy a setting to all different print queues using the Canon Generic driver.

For the Canon Family driver and for all other device drivers there will be one setting for each driver model.

Select a device from the device list and press the "Default Settings" button. The following window will open up:

🔍 PrinterExplore	🔍 PrinterExplorer - Device Default Settings 🛛 🛛 🗙					
Chosen device: Canon Generic PCL6 Driver Driver Name: Canon Generic PCL6 Driver						
Device Type:	A4 b/w					
🔲 Full Driver Backup						
Stored default setti	ngs					
duplex		•				
Save	Delete Cancel					

Fig 9: Default Settings Window

By pressing the drop down menu "Stored default settings" you can see if there are any default settings stored.

Note: Only default settings matching the same driver (Canon Family Driver) or the same device type (Canon Generic Driver) will be shown.

If you enter a name for a setting and press the "Save" button, the actual settings of the choosen driver will be stored to disc. The name of the setting will be build depending of the device type or the used driver automatically.

If you check the option for a 'Full Driver Backup' all settings of this driver will be stored to disc. A full backup includes not only the user settings but also all default options of the driver. An appendix '~FDB' will be added to the settings name to show that this is a full driver backup.

**Note:** Writing back the Default Settings of a Full Driver Backup overwrites all device options e.g. the number of available paper cassettes of the device. Therefore you have to ensure to always update the device options after restoring a Full Driver Backup.

Example for using Default Settings:

You want to set all print queues to use duplex printing in black by default. Change the setting of the driver please in the windows printer environment. Open each driver model, select "advanced / printing defaults" and change the settings to duplex printing in black. Go to the PrinterExplorer, select the newly changed device and open the "Default Settings" window. Type in the name of the new setting e.g. "duplexBW" and press "Save". All default settings including the duplex option will be stored to disc in the PrinterExplorer data directory (Menu "File" / "Open Program Data Folder"). All settings are stored in a sub directory "DefaultSettings".

By selecting a setting from the drop down menu and pressing "Delete" the setting will be removed from disc.

You can apply the stored setting by just selecting the default setting in the "Device Information" section of the main window and then pressing the corresponding "Set" button.

You can also apply the stored default setting during the device creation by selecting the default setting in the "New Devices" section or by giving the settings name in the CSV-file during creation from file.

When creating new devices or applying bulk changes with default settings PrinterExplorer tries to find the correct setting for each driver or device type. To make this possible it is necessary to give all the settings with the same task (e.g. duplex and black printing) the same settings name, regardless of the driver or device type.

Here is an example of the folder where the default settings are stored. You can see that there are 4 settings for the Canon Generic Driver. 3 of them are holding the setting "duplexSW". These 3 are for 3 different device types of the Canon Generic Driver (A3 col, A4 b/w, and A4 col). In addition to that the setting "duplexSW" is also stored for the Canon Family Driver "Canon iR-ADV C5234/5240 PCL5c".

ment   PrinterExplorer   DefaultSettings  Help  Burn New folder  Canon Generic PS3 Driver_A3 col_duplexSW.pds  Canon Generic PS3 Driver_A4 b #w_duplexSW.pds  Canon Generic PS3 Driver_A4 b #w_test.pds  Canon Generic PS3 Driver_A4 col_duplexSW.pds  Canon Generic PS3 Driver_A4 col_duplexSW.pds  Canon iR-ADV C2220 #2230 PCL5c_test.pds  Canon iR-ADV C5235 #5240 PCL5c_duplexSW.pds						
Help         Burn       New folder         Name ^         Canon Generic PS3 Driver_A3 col_duplexSW.pds         Canon Generic PS3 Driver_A4 b #w_duplexSW.pds         Canon Generic PS3 Driver_A4 b #w_test.pds         Canon Generic PS3 Driver_A4 col_duplexSW.pds         Canon Generic PS3 Driver_A4 col_duplexSW.pds         Canon Generic PS3 Driver_A4 col_duplexSW.pds         Canon iR-ADV C2220 #2230 PCL5c_test.pds         Canon iR-ADV C5235 #5240 PCL5c_duplexSW.pds	ment • PrinterExplorer • DefaultSettings					
Burn New folder Name ^ Canon Generic PS3 Driver_A3 col_duplexSW.pds Canon Generic PS3 Driver_A4 b#w_duplexSW.pds Canon Generic PS3 Driver_A4 b#w_test.pds Canon Generic PS3 Driver_A4 col_duplexSW.pds Canon Generic PS3 Driver_A4 col_duplexSW.pds Canon iR-ADV C2220#2230 PCL5c_test.pds Canon iR-ADV C5235#5240 PCL5c_duplexSW.pds	Help					
Name ^ Canon Generic PS3 Driver_A3 col_duplexSW.pds Canon Generic PS3 Driver_A4 b#w_duplexSW.pds Canon Generic PS3 Driver_A4 b#w_test.pds Canon Generic PS3 Driver_A4 col_duplexSW.pds Canon iR-ADV C2220#2230 PCL5c_test.pds Canon iR-ADV C5235#5240 PCL5c_duplexSW.pds	Burn New folder					
<ul> <li>Canon Generic PS3 Driver_A3 col_duplexSW.pds</li> <li>Canon Generic PS3 Driver_A4 b #w_duplexSW.pds</li> <li>Canon Generic PS3 Driver_A4 b #w_test.pds</li> <li>Canon Generic PS3 Driver_A4 col_duplexSW.pds</li> <li>Canon Generic PS3 Driver_A4 col_duplexSW.pds</li> <li>Canon iR-ADV C2220 #2230 PCL5c_test.pds</li> <li>Canon iR-ADV C5235 #5240 PCL5c_duplexSW.pds</li> </ul>	Name ^					
	Canon Generic PS3 Driver_A3 col_duplexSW.pds Canon Generic PS3 Driver_A4 b#w_duplexSW.pds Canon Generic PS3 Driver_A4 b#w_test.pds Canon Generic PS3 Driver_A4 col_duplexSW.pds Canon Generic PS3 Driver_A4 col_duplexSW.pds Canon iR-ADV C2220#2230 PCL5c_test.pds Canon iR-ADV C5235#5240 PCL5c_duplexSW.pds					

Fig. 10: Example of a default settings folder

# Create new printer queues

You can create new printer queues in the "New devices" section:

New Devices		
Queue Name	Device/Port IP	Port Name
iRC5235	192.168.0.200	
Share Name	Location	Comment
Driver Type	Default Settings	Port Settings
generic 💌	<b>•</b>	default 💌
Create new device		Create devices from file

Fig. 11: New devices section

You can create a new printer queue very easily. Just enter at least the Devicename and the Device/Port IP (or host name) in the corresponding fields. By pressing "**Create new device**" the following functions will be called:

- Create a TCP/IP Port (Raw 9100) or any other port configured in the "Ports.ini" from PrinterExplorer's data directory (menu "File" / "Open Program Data Folder"). If you have set up more than the default port setting in the "Ports.ini" you can select the setting from the "Port Settings" drop down box.
- Create a printer queue with the given name and the first generic driver from the "PrinterExplorer ini" file if the "Driver Type" is "generic", or
- Create a printer queue with the given name and the correct Canon Family Driver from the "PrinterExplorer ini" file if the "Driver Type" is "family", or
- Create a printer queue with the given name and the correct Lexmark Universal v2 XL driver from the "PrinterExplorer.ini" file if the "Driver Type" is "Lexmark".
- Connect to the device and query the device option via SNMP.
- Set all device options if the device is in the "DeviceOptions.ini" file (Canon Generic Driver).
- If a Sharename is given, the new queue will be shared.
- If the Location is given, the location field of the new queue will be set.
- If the Comment is given, the comment field of the new queue will be set.
- If a "Default Setting" is choosen, the default settings will be applied to the new queue.

By pressing the "**Create devices from file**" button you have the possibility to create multiple printer queues from a ".csv file" at once. All functions that are processed during the single queue creation are also processed during multiple queue creation. There is a sample file for this procedure in the PrinterExplorer program directory called "Sample.csv":

2	Mic	rosoft Excel - Sam	ple.csv											×
12		<u>)</u> atei <u>B</u> earbeiten	<u>A</u> nsicht <u>E</u> infü	igen Forma <u>t</u> I	E <u>x</u> tras Date <u>n</u>	Eenster ?					Frage hier e	ingeben	6	×
┆ D 💣 🛃 D   ④ D   ♥ Щ   从 🖻 웹 ▼ ダ   ♥ ▼ (♥ ▼ ) 🗞 Σ ▼ 2↓ X↓   Щ 40 100%   ▼ Ø 📕   10   ▼ K   三 三 三   田 ▪ 🖄 ▪ 🗛 ▪									}; ₹					
1	3 8	5 to 🗆 🌤 X	1351	) 🖷 🔂   🕬 i	Bearbeitung zurü	ck <u>s</u> enden Bearbe <u>i</u>	tung beenden	-						_
		i 🌀 Sna	agIt 📑   Windo	w										
		A1 🔻	f∡ Servern	ame										
		A	В	C	D	E	F	G	Н		J	K		
1	S	ervername	Queuename	Hostname/IP	Portname	DeviceVendor	Location	Comment	Sharename	DefaultSettings	PortSettings	DriverType		
2	vn	m-xp-pro-OSX	iRC5235	iRC5235	iRC5235	auto	1st Floor	Mrs. Taylor		duplexSW		generic		
3														
4														
5														
6														
7														-
If 4 >> H Sample /														
Ber	Bereit								11.					

Fig. 12: Sample ".csv file"

The first three columns are mandatory. The other ones are optional. The full header has to be the same as in the sample file.

The default settings (if no other entry is made) for the "DeviceVendor" is "auto" and for the "DriverType" it is "generic".

A log file is written during the automatic multiple queue creation from file. It is called "PrinterExplorer\_DebugLog.txt" and is stored in the PrinterExplorer data directory (Menu "File" / "Open Program Data Folder").

All printer queues, that could not be created correctly will be written into a file called "ErrorList.csv". This file has the same format as the "Sample.csv" and so it could be taken for a next try creating these printer queues that failed in the first run.

# **Command Line Calls**

Printer Explorer supports command line calls to do tasks in background started e.g. by a scheduled task.

Set Device Options (-SDO –Option -[BWList]) This sets the device options for Canon Generic Drivers (PS/PCL) or all Canon Family Drivers (PS/PCL) on new, all or named printer queues. Possible options are: -New | -All | -PrinterName "New" sets the printer options on supported newly created devices which still has the default device options. "All" sets the device options for all supported printer queues. "PrinterName" sets the device options only for the named printer if supported. Optional Blacklists and Whitelists in text format are supported. If the parameter argument is starting with a "B" followed by the filename of the list the list is handled as Blacklist, if the argument starts with a "W" followed by the filename of the list it is handled as Whitelist. Blacklists and Whitelists have to be in the program data folder of Printer Explorer. They are in textformat (\*.txt) having one line with a printer queue name for each printer. If you are providing a file named "SDO Blacklist.txt" in the program data directory (Menu "File" / "Open Program Data Folder") this file is used as default Blacklist. No optional argument call is needed in this case.

Set Default Setting (-SDS -Printer -Setting [-BWList]) -This sets the default settings on all or named printer queues. The used default settings have to be defined in the Windows printer driver and saved in PrinterExplorer's GUI first (see section "Default Settings"). Optional Blacklists and Whitelists in text format are supported. If the parameter argument is starting with a "B" followed by the filename of the list the list is handled as Blacklist, if the argument starts with a "W" followed by the filename of the list it is handled as Whitelist. Blacklists and Whitelists have to be in the program data folder of Printer Explorer. They are in textformat (\*.txt) having one line with a printer queue name for each printer. If you are providing a file named "SDS\_Blacklist.txt" in the program data directory (Menu "File" / "Open Program Data Folder") this file is used as default Blacklist. No optional argument call is needed in this case. The SDS command can be run on all printer queues with matching printer driver or on a single printer queue with it's name as a parameter:

-SDS -All -Setting [-Black/Whitelist] Sample: -SDS -All -Duplex -BListOfExcludedDevices.txt -SDS -PrinterName -Setting

All Command Line Calls and the results of the calls are logged into the file "PrinterExplorer\_DebugLog.txt" in the program data directory (Menu "File" / "Open Program Data Folder").

### Example 1:

**Command Line Call** 

-SDS -All -Duplex -BListOfExcludedDevices.txt

#### Result in "PrinterExplorer DebugLog.txt":

09.01.2013 14:30:16> Command for writing DefaultSetting 'Canon\_Duplex' to all matching devices detected: 09.01.2013 14:30:21> Found SDS Blacklist: ListOfExcludedDevices.txt 09.01.2013 14:30:25> Devices found in Blacklist: 1 09.01.2013 14:31:17> Applying DefaultSetting to device: GPS iRC5235 09.01.2013 14:31:21> Applying DefaultSetting to device: GPS iR2870 09.01.2013 14:31:22> DefaultSetting applied. 09.01.2013 14:31:22> DefaultSetting applied. 09.01.2013 14:31:22> DefaultSetting applied.

#### Example 2:

Command Line Call

-SDO -iRC5235

Result in "PrinterExplorer\_DebugLog.txt":

29.04.2013 16:49:43> SetDeviceOptions command detected. 29.04.2013 16:49:43> Reading DeviceOptions from device: iRC5235 29.04.2013 16:49:43> Writing DeviceOptions to driver ... 29.04.2013 16:49:43> Device options written successfully. 29.04.2013 16:49:43> Finished setting DeviceOptions.

#### Example 3:

Command Line Call -SDO -All -WMyWhitelist.txt

Result in "PrinterExplorer\_DebugLog.txt":

07.05.2013 22:45:13> Command for setting device options on all devices detected: 07.05.2013 22:46:26> Found SDO Whitelist: MyWhitelist.txt 07.05.2013 22:46:26> Devices found in Whitelist: 1 07.05.2013 22:46:26> Skipping device 'Lexmark GPS' because it is not on the Whitelist. 07.05.2013 22:46:26> Skipping device 'LBP6680' because it is not on the Whitelist. 07.05.2013 22:46:26> Reading DeviceOptions from device: irc5235 07.05.2013 22:46:37> Could not read DeviceOptions. Reason: ping error 07.05.2013 22:46:37> Finished setting device options for all devices!

# **Bulk Changes**

Printer Explorer supports bulk changes on devices. These changes work like the command line calls described in the last chapter. They support the same default Blacklists and are also logging their actions in the "PrinterExplorer\_DebugLog.txt". The Bulk changes are located in the Actions Menu:



Fig. 13: Menu Actions

### Update driver options on new devices

This sets the device options for Canon Generic Drivers (PS/PCL) or Canon Family Drivers (PS/PCL) or the Lexmark Universal v2 XL driver on new printer queues. New printer queues means newly created devices which still has the default device options configured.

### Update driver options on all devices

This sets the device options for Canon Generic Drivers (PS/PCL) or Canon Family Drivers (PS/PCL) or the Lexmark Universal v2 XL driver on all supported printer queues.

### Set default settings to all matching devices

This sets the currently selected default settings on all matching printer queues. The used default settings have to be defined in the Windows printer driver and saved in PrinterExplorer's GUI first (see section "Default Settings").

### Supported Blacklists

If you are providing a file named "SDS\_Blacklist.txt" or "SDO\_Blacklist.txt" in the program data directory (Menu "File" / "Open Program Data Folder") these files are used as default Blacklists for the above entries in the Action Menu.

### Set default settings to whitelisted matching devices

This action is for testing purpose. It sets the currently selected default settings on all whitelisted printer queues. The used default settings have to be defined in the Windows printer driver and saved in PrinterExplorer's GUI first (see section "Default Settings").

You have to provide a file "SDS\_Whitelist.txt" in the program data directory. Blacklist files will be ignored by this command.

# Why is this program mandatory in VW project

Requesting the device options cannot be done by the printer driver itself, because in the VW project the printer driver is not connected directly to the printer but to the CDDS server. Furthermore the Canon Generic drivers could not request device options from the Lexmark devices.

Requesting device options can be done manually with the PrinterExplorer's GUI or automated as a command line call e.g. from a scheduled task. PrinterExplorer uses the queue name as host name and requests the device options of Canon and Lexmark devices via SNMP.

Creating the print queues with PrinterExplorer is not mandatory but might be saving a lot of time.

# **VW project – Special Settings**

The [VW] section in the PrinterExplorer.ini file is implemented specifically for the Volkswagen project.

With the entry "UseLexmarkAsCanon=1" the Canon Generic Driver will also be used for Lexmark devices but without the "Use Canon device mode" option of the driver.

The entry "UseCanonMode=1" will set the device option "Canon Mode" in the Canon Generic Driver if a Canon device is found. By setting the entry to "UseCanonMode=0" the "Canon Mode" will always be off. This option is useful if the print queue with the Canon Generic Driver is used as pull printing queue.

"UseQueueNameAsHostName=1" will use the name of the printer queue to resolve it as the hostname of the device. This option is useful, if the printer queue is not connected directly to the output device like in the Volkswagen project.

"TruncateHostName=1" truncates all charcters after a "-" (dash) in the queue name. This option is only used with "UseQueueNameAsHostName" option.

"UseLPRQueueNameAsHostName=1" is the same as the "UseQueueNameAsHostName" option but used the LPR queue name of a used LPR port as the hostname.

### Examples of queue creation for a CDDS server

If you want to create a queue in the VW project to connect to the CDDS server enter the following settings in the "PrinterExplorer.ini":

UseLexmarkAsCanon=1 UseQueueNameAsHostName=1 TruncateHostName=1 UseLPRQueueNameAsHostName=0

For pull printing use the following settings in the "Ports.ini" file: By default this setting is available after setup. The name of this setting is "pullprinting".

PortType=2 PortNumber=515 PortName=\$DeviceName\$ LPRQueueName=pull-printing SNMP=0 DoubleSpool=0

For direct printing use the following settings in the "Ports.ini" file: By default this setting is available after setup. The name of this setting is "direct print".

PortType=2 PortNumber=515 PortName=\$DeviceName\$ LPRQueueName=\$DeviceName\$ SNMP=0 DoubleSpool=0

When creating the queues, make the following entries in the PrinterExplorer GUI:

New Devices		
Queue Name	Device/Port IP	Port Name
VWAGW0PC523501	CDDS-Server	
Share Name	Location	Comment
Driver Type	Default Settings	Port Settings
generic 💌	<b>•</b>	direct print
Crasta neur device		Create devices from the

Fig. 14: Creating new devices

Please replace the Device Name with your host name of the device and the CDDS-Server entry with the host name of your CDDS server. Make sure to select the correct port settings and press the "Create new device" button. If you want to create devices from file for use with the CDDS server you have to provide at least the server name, the queue name, the CDDS host name or IP-Address and the name of the port settings.

i	File Home	Insert Pag	je Layout 🛛 For	mulas Dat	a Review	View Add-Ir	15			
	Arial	- 1	10 · A A	≡≡≡	<b>≫</b> •• <b>≣</b> •₩	rap Text	General	▼		
Pa	ste 🕜 🖪	IU·	· <u>A</u> ·	E ≡ ∃	🛊 🛊 🔜 M	erge & Center 🔻	∰ • % • *.00	Conditio Formattin	nal Format Ce ig ∗as Table ∗ Style	II Insert Dele
Clip	board 🕞	Font	- Gi		Alignment	Fai	Number	Gi -	Styles	Cel
	J4 v fx									
	A	B	С	D	E	F	G	Н		J
1	Servername	Queuename	Hostname/IP	Portname	DeviceVendor	Location	Comment	Sharename	DefaultSettings	PortSettings
2	vm-xp-pro-OSX	iRC5235	CDDS		auto	1st Floor	Mrs. Taylor			pull-printing
3	vm-xp-pro-OSX	iRC5235-test	CDDS		auto					direct print
4										

Fig. 15: Sample CSV-File for automated queue creation

# Automated bulk setting of device options with a scheduled task

If you want to keep all device options of newly installed devices updated automatically, e.g. during rollout, it is recommended to use the comand line call option of PrinterExplorer in conjunction with a scheduled task from Windows.

The possible command line calls are:

- SDO -New (to update device options for newly created devices)
- SDO -All (to update device options on all devices)

You are also able to provide Black- and Whiteliste for the bulk update. Please refer to the manual of the PrinterExplorer to get more information about this feature.

To do an automated update of all new devices once a day follow these steps:

Open the Task Scheduler from Windows in the Server Manager and press "Create Task ..."



In the General tab Name the Task and select to Run the task even if no User is logged on.

🕒 Create Task			×					
General Triggers Actions Conditions Settings								
Name: Update DeviceOptions on new devices								
Location: \								
Author: IWMC\Administrator								
Description:								
-Security opt	tions							
When runn	ing the task, use the fo	bllowing user account:						
IWMC\Adn	ninistrator		Change User or Group					
C Run only	when user is logged	on						
Run whe	ther user is logged or	or not						
🗖 Dor	ot store password. Th	ne task will only have access to local comput	ter resources.					
Run with highest privileges								
🗖 Hidden	Configure for:	Windows Vista™, Windows Server™ 2008	<b>_</b>					
			OK Cancel					

### In the Triggers tab select "New..."

e	Create	Task											×
6	General	Triggers	Action	s Conditions	Settings								
	When	ou create	a task, y	you can specify	the condit	ions that v	will trigge	r the ta	isk.				
											<b>.</b>		,
	Irigg	er	l	Details							Status	;	
	N		F-104	Delet	- 1								1
	Ne	w	Eart.,	. Delet	e								
_										ОК		Cancel	

### Then configure the task as shown below

New Trigger
Begin the task: On a schedule
○ One time     Start:     22.10.2013     ▼     12:00:00     ▼     □     Synchronize across time zones
Daily     Recur every: 1 weeks on:
○ Monthly       □ Sunday     ☑ Monday     ☑ Tuesday     ☑ Wednesday       ☑     Thursday     ☑ Saturday
Advanced settings
Delay task for up to (random delay): 1 hour
Repeat task every:     1 hour       for a duration of:     1 day
Stop all running tasks at end of repetition duration
Stop task if it runs longer than:
Expire: 22.10.2014 In 16:40:09 Synchronize across time zones
I Enabled
OK Cancel

The task will run from Monday to Friday at 12 o'clock, when most devices are online. Press OK.

When you crea	te a task, you must spec	ify the action that v	vill occur when yo	our task starts.	
Action	Details				
					<u>^</u>
					-

Select the Actions tab and press "New..."

Choose the PrinterExplorer.exe as program to run and enter the correct command line call.

You must specify what action this task w Action: Start a program	vill perform.	•
-Settings		_
Program/script:		
"C:\Program Files (x86)\PrinterExplore	r\PrinterExplorer.exi Browse	1
Add arguments (optional):	-SDO -New	
Start in (optional):		-
	OK Cance	ł

Press OK.

You are asked for the credentials of a User in whose account the task should run. It is recommended that you choose a user with administrative rights.

Task Scheduler	? ×
	GA
Enter user account i	information for running this task.
User name:	🔮 IWMC\Administrator 🔄 📖
Password:	•••••
	OK Cancel

Finally you can see the newly created task.

Server Manager		
File Action View Help		
🗢 🔿 🙎 🖬 👔 🖬		
Server Manager (IWMC)	Task Scheduler Library 1 Tasks	Actions
🕀 🚏 Roles	Nama Status Triggers	Task Scheduler Library 🔺
Teatures     Teatures     Teatures     Teatures	Update DeviceOption Ready At 12:00 every Monday, Tuesday, Wednesday, Thursday, Friday of every	🕒 Create Basic Task
E 🔐 Configuration		Create Task
Task Scheduler     Task Scheduler Library		Import Task
🕀 🛅 Microsoft		Display All Running Tasks
Windows Firewall with Adva     Services		Fnable All Tasks History
WMI Control		New Eolder
Local Users and Groups		New Oder
E Storage		
	۲	Refresh
	General Triggers Actions Conditions Settings History (disabled)	👔 Help
		Selected Item 🔺
	Name: Update DeviceOptions on new devices	Run
	Location: \	- End
	Author: IWMC\Administrator	Disable
	Description:	Export
		× Properties
		🗙 Delete
		2 Help
	- Security options	
	When running the task, use the following user account:	
	IWMC\Administrator	
	C Run only when user is logged on	
	© Run whether user is logged on or not	
	Do not store password. The task will only have access to local resources	
	Run with highest privileges	

Press "Run" to do a first test of the task.

You can check the results of the task in the "PrinterExplorer\_DebugLog.txt" in the program directory.

III PrinterExplorer_DebugLog.txt - Notepad	
File Edit Format View Help	
<pre>22.10.2013 16:59:12&gt; Command for setting device options on new devices detected: 22.10.2013 16:59:12&gt; Checking online state for 2 devices 22.10.2013 16:59:16&gt; Reading DeviceOptions from device: iRC5235 22.10.2013 16:59:16&gt; Device options written successfully. 22.10.2013 16:59:16&gt; Reading DeviceOptions from device: CX510 22.10.2013 16:59:16&gt; Writing DeviceOptions to driver 22.10.2013 16:59:16&gt; Writing DeviceOptions to driver 22.10.2013 16:59:16&gt; Device options written successfully. 22.10.2013 16:59:16&gt; Device options written successfully. 22.10.2013 16:59:16&gt; Finished setting device options for new devices!</pre>	A