

CRISTAL WMS PQServerNet Service

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1. Introduction

1.1. What is PQServerNet?

PQServerNet is a facility used by CRISTAL WMS to print reports from designated printers. It works as follows:

- 1. CRISTAL WMS program writes a record into the PRINT_QUEUE database table regarding information about the report to be printed. This record has a special format that is related to the way parameters are fed into the associated Seagate Crystal Reports template.
- 2. The PC running the PQServerNet service checks the PRINT_QUEUE table for new records. When found, it will print the report defined by the record.

The PQServerNet service runs on all Microsoft Windows platform except Windows 95/98/ME. It also runs on both 32- and 64-bit operating systems.





2. Installation

2.1. Installing the Service

To install PQServerNet service just double click on the Install.bat file. The content of the Install.bat file is shown in Figure 1.

- Notepad	
View Help	
1icrosoft.NET\Framework\v2.0.50727	~
<pre>:\cristal\wMS\PQservice\PQServerNET2008\PQServerNet.exe</pre>	
1	-
	- Notepad View Help Microsoft.NET\Framework\v2.0.50727 :\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.exe

Figure 1

Before running the Install.bat file make sure that the path of the PQServerNet.exe resides is correct as shown in the red box in Figure 1.

Example : If PQServerNet.exe resides in sub-directory service then the Install.bat file must be changed as shown in Figure 2.

🖻 Install.bat - Notepad	
File Edit Format View Help	
cd C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727	~
Installutil C:\service\PQServerNet.exe	
pause	
	4

Figure 2

Once finish editing the path, save and close the Install.bat file. To run it just double click using a mouse. When the service is successfully installed, you will see a DOS command message box as shown in Figure 3. The last 2 messages of the installation should be the same as that shown in the red box in Figure 3. Just type any key to close the DOS command message box.



C:\WINDOWS\system32\cmd.exe

```
Beginning the Install phase of the installation.
See the contents of the log file for the C:\cristal\WMS\PQservice\PQServerNET200
8\PQServerNet.exe assembly's progress.
The file is located at C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.Inst
allLog.
Installing assembly 'C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.exe'.
Affected parameters are:
   logtoconsole =
   assemblypath = C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.exe
   logfile = C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.InstallLog
Installing service PQServerNet...
Service PQServerNet has been successfully installed.
Creating EventLog source PQServerNet in log Application...
The Install phase completed successfully, and the Commit phase is beginning.
See the contents of the log file for the C:\cristal\WMS\PQservice\PQServerNET200
8\PQServerNet.exe assembly's progress.
The file is located at C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.Inst
allLog.
Committing assembly 'C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.exe'.
Affected parameters are:
   logtoconsole =
   assemblypath = C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.exe
   logfile = C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.InstallLog
The Commit phase completed successfully.
The transacted install has completed.
C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727>pause
Press any key to continue . . . 🕳
```



The PQServerNet service will also be shown in the Services list, which you can access from Start \rightarrow Control Panel \rightarrow Administrative Tools \rightarrow Services as shown in Figure 4.

By default, the PQServerNet service is run automatically. That means it will auto start itself when Windows starts or reboot. It will start even if no user is present to logon to Windows.

By default, the PQServerNet service is always run with the Local System account. In an Active Directory network, it may be necessary to run the service with a different Windows account. To do this, select the "This Account" option in the Log On tab if you want to change the Log On account settings. You need to supply the appropriate account credentials



before you can apply this new account settings as shown in Figure 5.

Services							
ile Action Vie	w Help						
→ 💽 😭	🗟 🗟 😰 🖬 🕨 🗉 💷 🖦						
Services (Loca	Services (Local)						
	Contracts (Local)	r					
	PQServerNet	Name 🔨	Description	Status	Startup Type	Log On As	
		🖏 Net. Tcp Port Sharing	Provides ability to share TCP ports over th		Disabled	Local Service	
	Start the service	🎭 NetMeeting Remote	Enables an authorized user to access this		Manual	Local System	
	Start the service	Network Access Prot	Allows windows clients to participate in N		Manual	Local System	
		🍓 Network Connections	Manages objects in the Network and Dial	Started	Manual	Local System	
	Description	Network DDE	Provides network transport and security fo		Disabled	Local System	
	Cristellume DE DOCERER UET	Network DDE DSDM	Manages Dynamic Data Exchange (DDE) n		Disabled	Local System	
	CristalivimSRE PQServer.NET	Network Location A	Collects and stores network configuration	Started	Manual	Local System	
		🖏 Network Provisioning	Manages XML configuration files on a dom		Manual	Local System	
		🎭 NT LM Security Supp	Provides security to remote procedure call	Started	Manual	Local System	
		🏶 O2Flash Memory Se		Started	Automatic	Local System	
		🍓 Office Source Engine	Saves installation files used for updates a		Manual	Local System	
	100	Performance Logs a	Collects performance data from local or r		Manual	Network Service	-
		Plug and Play	Enables a computer to recognize and ada	Started	Automatic	Local System	
		Portable Media Seria	Retrieves the serial number of any portabl		Manual	Local System	_
		PQServerNet	CristalWMSRF PQServer.NET		Automatic	Local System	
		Print Spooler	Loads files to memory for later printing.	Started	Automatic	Local System	
		Protected Storage	Provides protected storage for sensitive d	Started	Automatic	Local System	
		QoS RSVP	Provides network signaling and local traffi		Manual	Local System	
		Remote Access Auto	Creates a connection to a remote network		Manual	Local System	
		Remote Access Con	Creates a network connection.	Started	Manual	Local System	
		Remote Desktop Hel	Manages and controls Remote Assistance	100000000000000000000000000000000000000	Manual	Local System	~
	{	Sector Procedure C	Provides the endnoint manner and other	Started	Automatic	Network Service	

<u>Figure 4</u>



eral Log On Recovery Depend	dencies
g on as:	1
Local System account	
Allow service to interact with de	sktop
This account:	Browse
Password:	
Confirm password:	
Confirm password:	
Confirm password:	for the hardware profiles listed below:
Confirm password: u can enable or disable this service Hardware Profile	for the hardware profiles listed below:
Confirm password: u can enable or disable this service Hardware Profile Profile 1	for the hardware profiles listed below: Service Enabled
Confirm password: u can enable or disable this service Hardware Profile Profile 1	for the hardware profiles listed below: Service Enabled
Confirm password: u can enable or disable this service Hardware Profile Profile 1	for the hardware profiles listed below: Service Enabled
Confirm password: u can enable or disable this service Hardware Profile Profile 1	for the hardware profiles listed below: Service Enabled
Confirm password: nu can enable or disable this service Hardware Profile Profile 1	for the hardware profiles listed below: Service Enabled Enable
Confirm password: u can enable or disable this service Hardware Profile Profile 1	for the hardware profiles listed below: Service Enabled Enable

2.2. Starting the Service

To start the service, just double click on the start.bat file. The content of the file is shown in Figure 6. The parameter in the red box is a registry name corresponding to the database used for this service. *The parameter is required and mandatory.* Consult your CRISTAL WMS administrator if need be about the parameter to supply.



File Edit Format View Help	
sc start PQservernet <mark>cristalwms_demo</mark> pause	\leq

Once the start bat file runs successfully, you will see the DOS command message box as shown in Figure 7. Just click any key to close it. Figure 8 shows the Services list where PQServerNet is started.

C:\WINDOWS\system32\cmd.exe × -C:\cristal\WMS\PQservice\PQServerNET2008\batch files>sc start PQservernet crista lwms_demo SERVICE_NAME: PQservernet TYPE : 10 WIN32_OWN_PROCESS STATE : 2 START_PENDING <NOT_STOPPABLE, NOT_PAUSABLE, I GNORES_SHUTDOWN> WIN32_EXIT_CODE (0x0) : Ø SERVICE_EXIT_CODE Ø (0x0) CHECKPOINT ØxØ WAIT_HINT : 0x7d0 : 2960 PID FLAGS C:\cristal\WMS\PQservice\PQServerNET2008\batch files>pause Press any key to continue . .



File Action Vi	ew Help					<u>کارلکا</u>	
← → 💽 🗳							
🍓 Services (Loca	Services (Local)	<i>.</i>					
	PQServerNet	Name 🖌	Description	Status	Startup Type	Log On As	1
	Stop the service Pause the service Restart the service Description: CristalWMSRF PQServer.NET	Net. Tcp Port Sharing Network Access Prot Network Connections Network DDE Network DDE DSDM Network DDE DSDM Network DCE DSDM Network Provisioning Network Provisioning O2Flash Memory Se Office Source Engine Performance Logs a Networa Play	Provides ability to share TCP ports over th Enables an authorized user to access this Allows windows clients to participate in N Manages objects in the Network and Dial Provides network transport and security fo Manages Dynamic Data Exchange (DDE) n Collects and stores network configuration Manages XML configuration files on a dom Provides security to remote procedure call Saves installation files used for updates a Collects performance data from local or r Enables a commuter to reconnize and ada.	Started Started Started Started	Disabled Manual Manual Disabled Disabled Manual Manual Manual Automatic Manual Manual Automatic Manual Manual	Local Service Local System Local System	
		Portable Media Seria	Retrieves the serial number of any porta		Manual	Local System	
		PQServerNet	CristalWMSRF PQServer.NET	Started	Automatic	Local System	
		Print Spooler Protected Storage	Loads files to memory for later printing. Provides protected storage for sensitive and Provides network signaling and local traffi	Started Started	Automatic Automatic Manual	Local System Local System Local System	
		Remote Access Auto Remote Access Con Remote Desktop Hel	Creates a connection to a remote network Creates a network connection. Manages and controls Remote Assistance	Started	Manual Manual Manual	Local System Local System Local System	
< >		Remote Procedure C	Provides the endnoint manner and other	Started	Automatic	Network Service	~

Figure 8

2.3. Stopping the Service

To stop the service, just double click on the stop.bat file. The content of the file is shown in Figure 9. A DOS command message box is again shown and just type any key to close it. Once the PQServerNet is stops, the start status is missing from the Services list as shown in Figure 10. To refresh the Services list if need be, just select menu Action \rightarrow Refresh.





* Services							
File Action V	/iew Help						
← → 💽 🖆	P 🖻 😫 😰 🖬 🕨 = 🗉 =>						
🆓 Services (Loc	a 🐐 Services (Local)	,					
	POServerNet	Name /	Description	Status	Startup Type	Log On As	^
	1 goer remet	Net. Tcp Port Sharing	Provides ability to share TCP ports over th		Disabled	Local Service	
	Start the service	NetMeeting Remote	Enables an authorized user to access this		Manual	Local System	
	Start the service	Network Access Prot	Allows windows clients to participate in N		Manual	Local System	
		Network Connections	Manages objects in the Network and Dial	Started	Manual	Local System	
	Description:	Network DDE	Provides network transport and security fo		Disabled	Local System	
	CristalWMSRE POServer NET	Network DDE DSDM	Manages Dynamic Data Exchange (DDE) n	1 <u>-</u> 2013/07/07/16	Disabled	Local System	
	cholannino na rigocriterine r	Network Location A	Collects and stores network configuration	Started	Manual	Local System	
		Service of the servic	Manages XIVIL configuration files on a dom	Charles J	lanual	Local System	and the second second
		Security Supp	Provides security to remote procedure call	Started	ridriudi	Local System	-12-12
		Sector Source Engine	Saves installation files used for undates a	Starteu	Appual	Local System	
		Sector Provide Contraction of the sector of	Collects performance data from local or r		Manual	Network Service	
		Belug and Play	Enables a computer to recognize and ada	Started	utomatic	Local System	
1	L 🔪	Portable Media Seria	Retrieves the serial number of any portabl.		M <mark>,</mark> nual	Local System	
1		PQServerNet	CristalWMSRF PQServer.NET		Al tomatic	Local System	
1		Spooler 🖏 Print Spooler	Loads files to memory for later printing.	Started	Automatic	Local System	
		Protected Storage	Provides protected storage for sensitive d	Janea	Automatic	Local System	
		QoS RSVP	Provides network signaling and local traffi		Manual	Local System	
		Remote Access Auto	Creates a connection to a remote network		Manual	Local System	
1		Remote Access Con	Creates a network connection.	Started	Manual	Local System	
		Semote Desktop Hel	Manages and controls Remote Assistance	Charles	Manual	Local System	~
4	Stondard (Standard (MAREMOTE Procedure (Provides the endholint manner and other	Started	Aummatic	Network Service	

Figure 10

2.4. Uninstalling the Service

To uninstall the service, just double click on the uninstall.bat file. The content of the file is shown in Figure 11. Remember to change the path of the PQServerNet.exe according to your system as shown in the red box in Figure 11. When the service is successfully uninstalled, the last 3 messages of the uninstallation should be the same as that shown in the red box in Figure 12. To close it, just type any key.





C:\WINDOWS\system32\cmd.exe

C:\cristal\WMS\PQservice\PQServerNET2008\batch_files>cd_C:\WINDOWS\Microsoft.NET Framework\v2.0.50727 C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727>Installutil C:\cristal\WMS\PQserv ice PQServerNET2008 PQServerNet.exe /u Microsoft (R) .NET Framework Installation utility Version 2.0.50727.3053 Copyright (c) Microsoft Corporation. All rights reserved. The uninstall is beginning. See the contents of the log file for the C:\cristal\WMS\PQservice\PQServerNET200 8 PQServerNet.exe assembly's progress. The file is located at C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.Inst allLog. Uninstalling assembly 'C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.exe' Affected parameters are: logtoconsole = assemblypath = C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.exe logfile = C:\cristal\WMS\PQservice\PQServerNET2008\PQServerNet.InstallLog Removing EventLog source PQServerNet. Service PQServerNet is being removed from the system... Service PQServerNet was successfully removed from the system. The uninstall has completed. C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727>pause Press any key to continue . . . 🕳



3. SYSTEM_CONFIG Parameter

There is a parameter used by PQServerNet service resided in the WMS program. This parameter can be changed from the Administration \rightarrow System \rightarrow System Configuration option in the WMS program as shown in Figure 13.

Print Queue Interval – A number in seconds. This stores the number of seconds before the PQServerNet service polls the PRINT_QUEUE table for refresh record to process.

Site Configuration Par	ameters	
AUTHORISATION	Description	Value
BILLING	Alert Preview before Printing	N
DATA FORMAT	Auto Print Sales Order on Release	N
EMAIL_SETTING	Preview before Printing	Y
KPI	Print Queue Enabled	Y
MSO	Print Queue Interval	2
PI50	Print Works Orders On Assigned	Y
PRINT	Printer Selection	Y
PRODUCT		
PURCHASE ORDER		/ '
QA		
RECEIPT		/
RF		