## Knowledge

### Base



# Using a Network Share as a SQL Server Backup Device

KB-0019-21

Document Summary			
Article Type	User Guide		
Products Affected	Exaquantum/PIMS		
Versions Affected	All versions		
Function Affected	SQL Database Backups		
Available Resolution	N/A		
Audience	Exaquantum System Administrators		
Summary	This guide covers the use of Network Shares as SQL Server Server backup devices.		
Review Date	Document to be reviewed before July 2024		



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# **Chapter 1 Introduction**

Exaquantum makes use of SQL Server database for the storage of both configuration and raw data. It is advised that the Exaquantum core databases are backed up on a regular basis to safeguard the system from data loss. This can be done locally on the Exaquantum server or for added protection against a catastrophic server failure, on a Network Share.

This document provides the necessary information to configure a Network Share as an SQL Server backup device.

### 1.1 Audience

This guide is intended for system integrators and administrators.

# Chapter 2 Setting up a Network Share as a Backup Device

Prior to setting up a Network Share as an SQL Server Backup Device ensure that the SQL Server service account has Read/Write access to it.

To identify the SQL Server service account check the "Log On As" column For" SQL Server (MSSQLSERVER)" in Windows Services as shown below.

For Legacy and Standard Security models the SQL Service users are Quanutmuser and QTM\_SQLSERVER respectively.

#### The setup of the Network Share is not covered in this guide.

		,				
🖏 Services						
File Action View	Help					
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🔍 Services (Local)	Name 🔺	Description St	tatus	Startup Type	Log On As	▲
	SNMP Trap	Receives tr		Manual	Local Service	
	Software Protection	Enables th		Automatic (D	Network Service	
	Special Administration Console Helper	Allows adm		Manual	Local System	
	SPP Notification Service	Provides S		Manual	Local Service	
	🧟 SQL Full-text Filter Daemon Launcher (MSSQLSERVER)	Service to I St	tarted	Manual	NT Service\MSSQLFDLaunch	er
	SQL Server (MSSQLSERVER)	Provides st St	tarted	Automatic	.\Quantumuser	
	SQL Server Agent (MSSQLSERVER)	Executes j St	tarted	Automatic	.\QuantumUser	
	SQL Server Analysis Services (MSSQLSERVER)	Supplies on St	tarted	Automatic	Local System	
	SQL Server Browser	Provides S		Disabled	Local Service	
	SQL Server Integration Services 11.0	Provides m St	tarted	Automatic	Local System	

#### To setup the Network Share as a backup device:

- 1. Open SQL Server Management Studio.
- 2. Navigate to Server Objects-> Backup Devices



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3. Right Mouse click on Backup Devices and select the "New Backup Device..." option.



 In the resulting dialog enter a Device Name and use the fully qualified universal naming convention (UNC) name for the Destination File. A UNC name has the form <u>\\Systemname\ShareName\Path\FileName</u>.

Backup Device -	NAS_Device	-	_		×
Select a page General	∏ Scrpt ▼	NAS_Device			
Connection Server: W2K16R320 Connection: W2K16R320VAdministrator ♥₩ <u>View connection properties</u> Progress Connection properties					
				ОК	Cancel

5. Press the OK button to complete the creation of the Backup Device.



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You can verify the backup device is onfigured correctly by backing up a database to it. To do this:

6. Navigate to a database of your choice in SQL Server Manager, right mouse click on the database and select "Tasks->Back Up..."



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7. On the "Back Up Database" dialog, under the "Destination" pane, select "File" in "Back up to:" drop down box and press the "Add..." button. In the "Select Backup Destination" dialog select the "Backup device" option and your newly configured backup device from the drop down list and press the "OK" button.

Source		
Database:	QConfig	~
Recovery model:	SIMPLE	
Backup type:	Full	~
Copy-only backup		
Backup component:	Select Backup Destination  Select Backup device for the backup destination. You can create backup devices for frequently used files.  Destinations on disk  File name:  Tosoft SQL Server\MSSQL14 MSSQLSERVER\MSSQL\Backup\	
	Backup device:	Add
	OK Cancel	Remove Contents
	Recovery model: Backup type: Copy-only backup Backup component: Database Files and filegroups Destination Back up to:	Recovery model:       SIMPLE         Backup type:       Full         Copy-only backup       Select Backup Destination         Backup component:       Select the file or backup device for the backup destination. You can create backup devices for frequently used files.         Piles and filegroups       Destination on disk         Destination       File name:         Backup to:       File name:         Press file       File name:         Backup device:       NAS_Device         NAS_Device       OK         Cancel

8. Press the "OK" button on the "Back Up Database" dialog to commence the backup.

冒 Back Up Database - QCon	fig		-	- 🗆	×
Select a page	Script - 2 Help				
🖋 General					
Media Options					
Backup Options	Source				
	Database:	QConfig			$\sim$
	Recovery model:	SIMPLE			
	Backup type:	Full			$\sim$
	Copy-only backup				
	Backup component:				
	Database				
	<ul> <li>Files and filegroups:</li> </ul>				
	Destination				
	Back up to:	Disk			~
	NAS Device				
Connection	-			Ad	d
Server: W2K16R320				Rem	ove
Connection: W2K16R320\Administrator				Cont	tents
₩ View connection properties					
Progress					
- Contraction					
Ready					
			ОК	0	Cancel

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9. If the Backup Device is configured correctly the backup will be successful as shown in the example below.

🛢 Back Up Database - QConfi	g		_		$\times$
Select a page	Tr Script 👻 😰 Help				
F General					
Backup Options	Source				
	Database:	OContin			~
	Decementaria				
	Recovery model:	SIMPLE			
	Backup type:	Full			$\sim$
	Copy-only backup				
	Microsoft SQL Server Mana	agement Studio	$\times$		
	The backup of data	abase 'QConfig' completed successfully.			
	De Copy message	0	ĸ		
	kack up to:	10-1			
	buck up to.	Disk			~
	NAS Device				
Connection				Add	
Server: W2K16R320				Remove	e
Connection:					
W2K16R320\Administrator				Content	s
View connection properties					
Progress					
Executing (100%)					
Stop action now					

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# **Chapter 3 Further Reading**

Please refer to the following link for more information on setting up a Network Share as a backup Device in SQL Server.

https://docs.microsoft.com/en-us/sql/relational-databases/backup-restore/backup-devices-sql-server?view=sql-server-2014#NetworkShare

More support is available at <u>www.ymx.yokogawa.com\support</u> or from <u>support.ymx@yokogawa.com</u> email address.

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# Highlights

The Highlights section gives details of the changes made since the previous issue of this document.

### Summary of Changes

This is Issue 2.0 of the document related to Product Library version 1.0.

### Detail of Changes

The changes are as follows:

Chapter/Section/Page	Change
Front page	Review Date updated
Page 8	Email address updated