QuantorDent Server User Manual

Doc No.: TM -721-EN Rev.: 1.0.7.7 (August 2017) Part No.: CR-FPM-04-021-EN

3DISC, FireCRDent, QuantorDent and QuantorMed+ are all trademarks of 3D Imaging & Simulations Corp, South Korea, and its affiliates. All other trademarks are held by their respective owners and are used in an editorial fashion with no intention of infringement. The data in this publication is for illustration purposes only and does not necessarily represent standards or specifications that must be met by 3D Imaging & Simulations Corp. All information contained herein is intended for guidance purposes only, and characteristics of the products and services described in this publication can be changed at any time without notice. Products and services may not be available in your local area. Please contact your local sales representative for availability information. 3D Imaging & Simulations Corp. strives to provide as accurate information as possible, but shall not be responsible for any typographical error.

© Copyright 2017 **3D Imaging & Simulations Corp**, all rights reserved, printed, and published in South Korea by **3D Imaging & Simulations Corp**.

3DISC



3DISC Americas 22560 Glenn Dr., Suite 116 Sterling, VA 20164 USA Tel: 1-703-430-6080 E-mail: info@3DISCimaging.com

EC REP

3DISC Europe Gydevang, 39-41, 3450 Alleroed, Denmark Tel: 45-88-276-650 E-mail: info@3DISCimaging.com

Warnings and used symbols

Any changes to software or hardware delivered by **3D Imaging & Simulations Corp.** may cause harm to patients, staff, other persons, or associated hardware, and may only be made with prior written permission from **3D Imaging & Simulations Corp.** If any unauthorized changes have been made to the delivered software or hardware components, the warranty by **3D Imaging & Simulations Corp.** is void. In such a case, **3D Imaging & Simulations Corp.** will not accept any responsibility or liability for the proper functionality of the product.

If using the *QuantorMed+* software, please read the respective manuals for any connected devices, such as the X-ray generator, sensor, or reader, before attempting to use the *QuantorMed+* software.



WARNING

This function, if used improperly, may result in a loss of functionality or data. Do not use before reading the warning.



ΝΟΤΕ

A note is just information that is important to know, but that does not affect the functionality of the system.

Table of Contents

1. Introdu	uction	5
1.1.	Recommended Server Requirements	5
1.2.	Minimum Server Requirements	5
2. Serv	ver Installation	6
2.1.	Software Installation	6
2.2.	Creating New User Account	8
3. Rep	ository Management	10
3.1.	Create Repository	11
3.2.	Delete Repository	12
4. Data	a Migration	12
4.1.	Migrating from Client/Server to Stand-Alone	13
4.2.	Migrating from Stand-Alone to Client/Server	13
4.3.	Merging databases	13

1. Introduction

The *QuantorDent* Software can either be used in a stand-alone mode, for single user environments, or client-server mode, for multi-user environments. With client-server mode, acquired images are stored on a central computer, the *QuantorDent Server*, and shared with client computers. The server stores the image information in a local database, specifically a PostgreSQL Database. It stores the actual images in a Windows Shared Data Folder, hereafter referred to as a Repository.

Because of how *QuantorDent Server* stores images, all client PC's must be on the <u>same network</u> as the server PC. This can easily be verified by checking to see if the client/server is visible under the network folder. It can also be verified by checking the IP address of the computers. If the first three numbers match, they are on the same network.

1.1. Recommended Server Requirements

Operating System	Microsoft Windows 7, 8, 10 32bit/64bit
CPU	Intel Core i5 2.0 GHz
Memory	4 GB RAM
Hard Disk Space	1 TB
Network	1 Gbps Ethernet

Recommended client computer requirements are listed in the QuantorDent User Manual.

1.2. Minimum Server Requirements

Operating System	Microsoft Windows 7 32bit
CPU	Intel Pentium 1.20 GHz
Memory	2 GB RAM
Hard Disk Space	500 GB
Network	1 Gbps Ethernet

Minimum client computer requirements are listed in the *QuantorDent* User Manual.

2. Server Installation

2.1. Software Installation

- 1. Download the latest QuantorDent server version from the partner's area of the **3D Imaging & Simulations Corp. 3D Imaging & Simulations Corp.** website.
- 2. Once downloaded, unzip and run the setup .exe file.
- 3. Proceed through the installation process by pressing next on each window.



Figure 1: Welcome



Figure 2: Choose Components

4. Chose the destination folder, and click the "Install" button, as shown in Figure 3

QuantorServer 1.0.7.7 Se	tup		-		×
3DISC	Choose Install L Choose the folde	.ocation r in which to install	QuantorServe	r 1.0.7.7.	
Setup will install QuantorSe click Browse and select and	erver 1.0.7.7 in the f	ollowing folder. To stall to start the ins	install in a diffi tallation.	erent fold	er,
Destination Folder			Brov	/se	
Space required: 283.9MB Space available: 8.7GB Nullsoft Install System v2.46		< Back	Install	Cano	el

Figure 3: Choose Install Location

5. The next window will display your installation progress.

G QuantorServer 1.0.7.7 Se	tup		_		\times
3DISC	Installing Please wait while	e QuantorServer 1.	0.7.7 is being in	stalled.	
Execute: C:\QuantorServe	r \RegistService.ba	t			
Show <u>d</u> etails					
Nullsoft Install System v2.46 -					
		< <u>B</u> ack	<u>N</u> ext >	Cano	el

Figure 4: Installation Progress

6. After the install is finished, a restart is required for the server to start. If the Server PC already has a password-protected account, restart the PC and proceed with any client PC installations. If not, consult the section below to create such an account.



Figure 5: Install Complete!

2.2. Creating New User Account

For security reasons, the client PC can only access the server through a secure, password protected account on the server PC. Skip this section if such an account already exists on the server. Otherwise, follow the steps below to create one. Note that these steps do require administrator access. For windows 7/ Windows 10 before Creators Update:

- 1. Open the **Control Panel**, click **User Accounts** and click **Manage another account**.
- Create a Standard User Account as shown in Figure 6. Set a password for the account. If a password is not created, access to the shared image folder will be rejected.
- 3. Record the account name and password. These will be used in the client installation.

🚱 🕞 🗷 🕷 « User Accounts 🕨 Manage Accounts 🕨 Create New Account	- 4	,	Search Control Panel	Q
Name the account and choose an account type				
This name will appear on the Welcome screen and on the Start menu.				
Standard user Standard account users can use most software and change system settings that du the security of the computer.	o not	aff	fect other users or	
Administrator Administrator have complete access to the computer and can make any desired notification settings, administrators may be asked to provide their password or co making changes that affect other users.	chan nfirm	ges nati	s. Based on ion before	
We recommend that you protect every account with a strong password.				
Why is a standard account recommended?				
Create Ac	cour	nt	Cancel	
L				

Figure 6: Create New Account

For Windows 10 After Creators Update:

1. Open Settings, go to Accounts, then the "Family & other people" tab. Click on "Add someone else to this PC", as shown in figure 7.

Settings		678	×
Home	Family & other people		
Find a setting	P Your family		
Accounts	We couldn't connect to Microsoft family right now, so your family on this device might not be up to date.		
AE Your info	Add your family so everybody gets their own sign-in and desktop. You can help kids stay safe with appropriate websites, time limits, apps, and games.		
🖾 Email & app accounts			
🔍 Sign-in options	+ Add a family member		
Access work or school	Learn more		
R, Family & other people	Other people		
C Sync your settings	Allow people who are not part of your family to sign in with their own accounts. This won't add them to your family.		
	+ Add someone else to this PC.		
	Set up assigned access		
	Have a question?		
	Get help		
	Make Windows better.		
	Give us feedback		

Figure 7 Windows 10 Account Settings

2. Click the "I don't have this person's sign-in information" text in the lower right.

crosoft account		
How will this person sign in?		
How will this person sign in:		
Enter the email address or phone number of th	ne person vou want to ad	ld. If they use
Windows, Office, Outlook.com, OneDrive, Skyp	e, or Xbox, enter the ema	ail or phone
number they use to sign in.		
Email or phone		
I don't have this person's sign in information		
Drive au statement		
Privacy statement		
	_	_
	Nevt	Cancel

Figure 8 Microsoft account registration

3. Click the "Add a user without a Microsoft account" text in the lower right. (Figure 9)

Let's create y	our acco	unt				
Windows, Office, Ou	itlook.com, On	eDrive, Sky	ype, Xbox.	They're all be	tter and more	
personal when you	sign in with yo	ur Microso	ft account.	* Learn more		
\$omeone@examp	le.com					
Get a new email add	dress					
Password						
United States				~		
Birth month	~ D;	ay v	Year	~		
*If you already use a	Microsoft ser	vice do Ba	ck to sign i	n with that a	ccount	
If you direduy use i	i microsoft ser	nee, go bu	ck to sign i	in what that a	ccount	

Figure 9: Microsoft account setup

4. Finally, you can now create a new user account. (Figure 10). Make sure to set a password for the account. *If a password is not created, access to the shared image folder will be rejected.*

crosoft account			>
Create an account	for this PC		
If you want to use a password but hard for others to guess.	d, choose something that wi	ll be easy for	you to remember
Who's going to use this PC?			
User name			
THE VERTICE DATE			
Make it secure.			
Make it secure. Enter password Re-enter password			
Make it secure. Enter password Re-enter password Password hint			
Make it secure. Enter password Re-enter password Password hint			
Make it secure. Enter password Re-enter password Password hint			
Make i secure. Enter password Re-enter password Password hint			Back

Figure 10: Windows Local Account Creation

5. Record the account name and password. These will be used in the client installation.

3. Repository Management

The repository is simply a shared folder where the acquired images are stored. When the QuantorDent Server was installed, a default repository was also created on whatever drive had the most free space. Should the repository become full, a new repository will need to be created. The tool used for managing and creating new repositories is the QuantorServerAdminTool. The tool is password protected to prevent unauthorized persons from manipulating the repositories. The password is "fireadmin", in all lower-case letters. The admin tool will display information on: available drives and free space on each, all existing repositories, and which repository is active. It will also allow you to add new repositories, delete old ones, and change the active repository.

💰 Admin Tool			-		×
Server Disk Drive Info. SOFTWAREOFFICE0 Disk(C)_free: 32 34GB Disk(D)_Free: 337.44GB	Create New Rep Target Disk Driv Disk Space:	ostory e: (C:) 94.36/226.7GB (Fre	ee Space	:32.34GE	1] e
Repository List Path D:\DefaultRepository		Share Name QuantorRepo1	Statu Activ	is e	
Delete Set As Active					
Show Log Show Version				Clos	e

Figure 11 Admin Tool

3.1. Create Repository

To create a new repository:

- 1. Select the target Disk Drive from the Server Disk Driver Info list
- 2. Enter the Folder Name (the local name for the folder)
- 3. Enter the Share name (the folder name visible to the network)
- 4. Click Create
- 5. Verify that the repository information is correct on the Repository List
- 6. Select the new repository and click "Set As Active".

When new images are scanned, they are saved to the active repository. Inactive repositories still retain their old images, and must be maintained unless the QuantorExImport tool is used to merge the inactive repository into another one. Doing so not only moves the images over, but also updates the database with the new image locations.

3.2. Delete Repository



WARNING

Inactive repositories contain old images, and deleting them may result in a loss of data. Deleting a repository does not remove the shared folder, which may still contain old images. It does remove the repository information from the database, making the files inaccessible to QuantorDent. Use the QuantorExImport tool to merge the old repository with the current active one to save the existing images for use with QuantorDent.

- 1. Select the target repository in the repository list
- 2. Click Delete

4. Data Migration

When transitioning from stand-alone to client/server mode, the local database of stored images needs to be exported to the server. Likewise, when transitioning from client/server, the images on the server need to be imported to the local machine. This is done using the QuantorExImport.exe tool. This tool allows you to import/export data between computers, as well as merge two databases together. While this tool can be used on the server, provided that QuantorDent is installed, for import and export it is easiest to use it on the client, or stand-alone, machines.

Source Database	⊡/Clien	t/Server					
IP Addr: 10.1.10.10			Target Da	ta Folder			
Source Repository		->	Select a	source database by dici	ing the browse bu	tton	
\/DESKTOP-D9PM324\Se	erver2						
							Cancel
Select the studies from t	he source data (Option)	Load Stu	dies				
Study Date/Time	Patient Name	Patient ID	Sex	Description	Images	Data Path	

Figure 12 QuantorExImport tool

4.1. *Migrating from Client/Server to Stand-Alone*

- 1. Install the latest version of QuantorDent in stand-alone mode.
- 2. Run QuantorExImport.exe (Found in the QuantorDent installation folder)
- 3. Switch to the Export tab, if it is not already active.
- 4. Click the Client/Server checkbox, telling the program to search for the local server's database
- 5. Verify that the displayed source database and repository information is correct, modify as need be.
- 6. Browse for and find the local database.
- 7. Click export
- 8. Done!

4.2. Migrating from Stand-Alone to Client/Server

- 1. Install the latest version of QuantorDent in stand-alone mode.
- 2. Run QuantorExImport.exe on the client machine (Found in the QuantorDent installation folder)
- 3. Switch to the Import tab, if it is not already active.
- 4. Click the Client/Server checkbox, telling the program to search for the local server's database
- 5. Verify that the displayed source database and repository information is correct, modify as need be.
- 6. Browse for and find the local database.
- 7. Click Import
- 8. Done!

4.3. Merging databases



NOTE

Merging can be done from any computer, and can also be used to merge two repositories on different computers, provided that the user has access to the source and target files. It is easiest, however, to access the repositories from whatever computer hosts them. To do this from the server, QuantorDent must first be installed.

- 1. Run QuantorExImport.exe, found in the QuantorDent installation folder.
- 2. Switch to the merge tab, if it is not already active.
- 3. If on a Client machine, and needing to merge repositories on the server, check the Client/Server checkbox. This switches the target repository to the server's active repository.
- 4. Verify that the displayed target database and repository information is correct, modify as need be.
- 5. Brows for and find the source database. If on a client and merging server repositories, you may need to navigate to the server computer in the network folder.
- 6. Click Merge
- 7. Done!