

UPGRADING TO FLEXIWARE 8

TECHNOTE 016

MAY 19, 2022

OVERVIEW

PURPOSE

This document provides information and instructions on how flexiVent and inExpose[®] users can upgrade to the latest version of the flexiWare software. All references mentioned throughout this guide can also be accessed on the SCIREQ Website knowledge centre (https://www.scireq.com/knowledge-center/download).

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SCOPE

This document pertains to the following products & services:

Product	From Version	To Version
flexiVent FX®	flexiWare 7, 8	Current
InExpose®	flexiWare 6.1, 8.0.x	Current

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1. INTRODUCTION

This document is applicable to users upgrading from previous flexiWare software versions. At the time of publication, the most recent flexiWare version for flexiVent and inExpose is version 8.2.

1.1 COMPUTER SPECIFICATIONS

Due to the database structure of flexiWare and its many powerful features, a high-performance computer with a recent Operating System is required. See Table 1.

Specification	Recommended	Minimum
Processor	2.67 GHz quad core	2.67 GHz dual core
Memory (RAM)	8.0 GB	3.0 GB
Hard Drive	1 TB	250 GB
Operating System	64-bit, Windows 10	64-bit, Windows 10
Monitor Resolution	1280 x 1024	1280 x 1024
Video Card	4-6 GB of video RAM	2 GB of video RAM
Networking	1 Ethernet card (stand-alone); 2 Ethernet cards (networked)	1 Ethernet card (stand-alone); 2 Ethernet cards (networked)

Table 1. Minimum computer requirements for flexiWare 8

2. FLEXIWARE SOFTWARE UPGRADE

As new software versions become available, users are encouraged to upgrade as soon as possible to have access to the latest software features. To perform the update please follow the detailed steps below.



2.1 UNINSTALL FIREBIRD

It is perferred but not required to remove Firebird before proceeding with installation. Enter the *Programs and Features* section of the Control Panel to find and uninstall programs. If this step is omitted, a pop-up warning that firebird is already installed will appear during the upgrade (Figure 2-1). Select *OK* to continue.

flexiWare 8 - Inst	tallAware Wizard		×
Firebird Ser	rver already i ?	installed. Cont	inue
Firebird server flexiWare is cor Please verify th correct before	is already installe mpatible with ve at the currently i proceeding.	ed. rsion 2.1.3 of Fireb nstalled version of	ird. f Firebird is
		ОК	Cancel

Figure 2-1. Firebird already installed window

2.2 UPDATING SOFTWARE

The installer file for the latest versions of various editions of flexiWare may be obtained from the Downloads section of the SCIREQ website (https://www.scireq.com/knowledge-center/download/). Download and open the installer file to launch the installation wizard to update the software.

For minor updates ex. moving from flexiWare 8.0.2 to 8.0.4, the registration code is retained; no additional information or files are required beyond the installer file for these upgrades.

For major updates, distinguished from minor service pack updates by a change in the first or second digit of the flexiWare edition ex. 7.6.7 to 8.0.4; a new registration code and computer registration is required, in addition to use of the installer file. Please see Section 3 of the *flexiWare User Manual* or the *Guide – Registering a flexiWare Software Licence* for more details on registration.



2.2.1 THE INSTALLATION PROCESS

» Activate the installer file to launch the Installation Wizard automatically. Click Next



Figure 2-2. Installation Wizard Pop-up window

- » Read the license on the License Agreement screen. If in agreement with its terms and conditions, check *I Accept* ... and click *Next*
- » On the *ReadMe* Information screen, read the information provided and then click *Next*
- » On the Customer Registration screen (Figure 2-3), enter the name and organization for the lab. Click *Next*



Figure 2-3. Customer information entry

- » flexiWare will complete installation. A shortcut will appear on the desktop for easy access
- » The software will be saved to the default location C:\Program Files\SCIREQ\flexiWare 8
- » Assure that an experimental session can be entered without any problems prior to any planned study



3. HARDWARE UPGRADE

The instrument will require a hardware update to be compatible with the new software version.

3.1 TO UPDATE AN INSTRUMENT

To locate and update an instrument please make sure that the:

- » Instrument is powered on
- » Instrument is connected to the computer via ethernet, or through an ethernet hub with the appropriate cables
- » Firewalls are disabled. Note that firewalls can be disables by navigating to Control Panel > System and Security > Windows Defender Firewall > Turn Windows Defender Firewall on or off

3.2 INSTRUMENT UPDATE WITH A FLEXIVENT

- If using a Negative Pressure Forced Expiration extension, ensure that all transducers such as the negative pressure controller and differential pressure transducer are connected to the instrument
- » Navigate to: C:/Program Files (x86)/SCIREQ/Utilities
- » Select SCIREQ Instrument Updater Utility and click Next
- Once the utility has scanned for all SCIREQ instruments on the network, select the appropriate instrument to update and click *Next*
- The utility will show possible updates to the instrument. Click Upgrade to Current to update the instrument to the latest version (Figure 3-1)

🖷 SCIREQ Instrument updater utility			_		×
Available updates					
Select the desired update from the items below.					
Upgrade to current	Available downgrade	es.			
Current version: 8.0.4	Select a downgrade pa	ackage.		_	
	flexiWare 8.0.3	flexiWare 8.0.2		Â	
	flexiWare 8.0.1	flexiWare 8.0.0			
	flexiWare 7.6.6	flexiWare 7.6.5			
	flexiWare 7.6.4	flexiWare 7.6.3			
	flexiWare 7.6.2	flexiWare 7.6.0			
				v	
			<u>N</u> ext >	Ca	ncel

Figure 3-1. Upgrade to Current



» The Instrument updater should confirm that the update completed successfully (Figure 3-2)

🖷 SCIREQ Instrument updater utility	—		×
Step 4: Instrument is up to date.			
flexiVent FX - 1120249			
Advanced	date >	Clo	se

Figure 3-2. Update complete

Please be sure to re-start the updated unit before adding it as an Instrument within the flexiWare System Settings as discussed in *TechNote 006-Troubleshooting flexiWare Instrument Connectivity* or the *flexiWare User Manual v8* section 3.3.2

3.3 INSTRUMENT UPDATE WITH AN INEXPOSE

- » Navigate to: C:/Program Files (x86)/SCIREQ/Utilities
- » Select SCIREQ Instrument Updater Utility and click Next
- » Select the appropriate instrument to update and click *Next*
- » The utility will show possible updates to the instrument. Select *Upgrade to Current*. The version chosen which will be the most recent version of software available on the computer
- » Prior to continuing, the user is prompted to reset the instrument (Figure 3-3). Be sure to restart the inExpose by unplugging and re-plugging the power supply before continuing





Figure 3-3. Prompt to Restart Instrument prior to Continuing

» Within 5 s of the inExpose booting up, click on the *Next* button to begin the update (Figure 3-4)

SCIREQ Instrument updater utility	_		\times
Programming instrument			
The instrument is now being programmed and may reset itself automatically during this process.			
Connecting to instrument [192.168.1.226] Waiting for instrument connection. 			^
Sending firmware [C:\Program Files (x86)\SCIREQ\flexiware 8\firmware\FX-IX_804_b3826.scifw] to instrument. Firmware has been successfully updated to 8.0.4, Build 3826. Rebooting instrument.			
Waiting for instrument connection. 			
			V
		<u>F</u> ini	sh

Figure 3-4. Active Update Window

» Once the update is complete, the Instrument updater should confirm that the update completed successfully (Figure 3-5)



SCIREQ Instrument updater utility	-		×
inExpose - 1182708 Instrument is up to date.			
			1
Advanced	<u>U</u> pdate >	Clo	ose

Figure 3-5. Update complete

- » Repeat the update process with the CSR/CSRi if applicable before entering an experimental session to avoid system communication errors
- If unsure if the update completed successfully, please repeat the steps above a second time. Ensuring that the inExpose or CSR is rebooted within <u>5 seconds</u> of pressing OK to the prompt in Figure 3-3
- Please be sure to re-start the updated unit before adding it as an Instrument within the flexiWare System Settings as discussed in *TechNote 006b-Troubleshooting inExpose Connectivity* or the *flexiWare User Manual v8* section 3.3.2

4. DATABASE UPDATE

If updating to flexiWare 8.2 and later, the user will be prompted as to whether they wish to use the new Default Database location and move all existing databases to this same location (Figure 4-1). Clicking *Yes* and allowing the process to complete fully is recommended prior to any planned studies.

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exiviale o - installAware vvizar	u
Experiment folder	
An experiment folder has been data\SCIREQ\Databases".	found under "C:\program
Experiment files are now stored	d in "Public
Documents\SCIREQ\flexiWare	Data\Experiments".
Do you wish to move your exp the new one? It is recommende move your files to simplify acc sessions.	eriments from the old folder to ed that you allow the installer to ess during your experiment
	Yes <u>N</u> o

Figure 4-1. Prompt to move database upon first launch of flexiWare 8.2 and later

After starting the flexiWare 8 software and attempting to connect to a database, a prompted to Create a New Database, Update the selected database or to Select a different database will appear as per the message dialog in Figure 44-12.

When starting experiments, it is best to use a new database.

To review previously collected data, SCIREQ recommends updating older databases to access the flexiWare 8 features, including faster data loading in review mode. Following a successful update, it is possible to review previously collected data and add new experimentation sessions.

0 "NA		
nexiware		
Update this Experiment Database?		
Do you wish to update experiment database: "C:\ProgramData\SCIREQ\Database\EDB001.FDB" to the most recent format?		
Updating the database will allow access to the latest software features, however it will no longer be compatible with older software versions. A backup will be made which can be restored to open the database in older software versions. It is not recommended to change software versions during an on-going study.		
WARNING! The update may take several hours.		
○ Create a new database. (Recommended)		
Opdate the selected database to the current version.		
\bigcirc Do not update the database to the current version and select a new database.		
See details OK		

Figure 44-1. Prompt for database update

» Select *Update the selected database to the current version* click *OK*. A confirmation dialog will appear as shown in Figure 4-3.



flexiWa	re	×
	Confirm Experiment Database Update.	
	The database update from flexiWare 7 to the current version may take several hours. Ensure that you have sufficient time to perform the update.	
	OK Cancel	

Figure 4-3. Prompt for database update

IMPORTANT: It is normal that this process may take up to several hours, depending on how much data is within the database. Please do not close or manipulate the program while it is running and leave enough time to update the database before an experiment. It may be worth considering upgrading the database the night before a planned experiment.

» A prompt to create a backup of the database as shown in Error! Reference source not found.4. Once a location and name is decided, click *Backup*

SCIREQ Database Manager					
Specify Back-up Destination					
Select a database back-	up path and a database filename for creating the back-up.				
Back-up Information o	n the selected server				
Backup Path:	C:\ProgramData\SCIREQ\Database\Backups				
Backup File Name:	EDB001_13-02-19 08.31.01.fbk				
		Dedter			
		Back			

Figure 4-4. Prompt for database backup

» Once the update is finished, a summary notification will appear (Figure 4-5) confirming that the database was renamed to a *.FDB8 file



Database File Renamed The database file was renamed to	
"C:\ProgramData\SCIREQ\Database\EDB001 4.fdb8."	ОК

Figure 4-5. Database renamed

» Click *Ok* and then *Finish* once the update has completed (Figure 4-6) to return to the welcome dialog for flexiWare

SCIREQ Database Manager	
Success	
Database C:\ProgramData\SCIREQ\Database\EDB001 5.fdb8 was successfully updated on server localhost	
Processing	
Transferred : FlexiVent FX-Mouse AN-OX Updated : FlexiVent FX-Mouse AN-VSG Updated : FlexiVent FX-Mouse AN-VFE Transferred : FlexiVent FX-Rat AN-VFE Transferred : FlexiVent FX-Rat AN-VSG Transferred : FlexiVent FX-Rat AN-VSG Transferred : FlexiVent FX-Rat AN-VSG Transferred : FlexiVent FX-Rat AN-VFE Transferred : FlexiVent FX-Nedum Animal AN Transferred : FlexiVent FX-Nedum Animal FA Transferred : FlexiVent FX-Nedum Animal AN Transferred : IX - 4010 Transferred : IX - 4010 Transferred : IX - 90- 0010 Transferred : IX - 200 - 4010 Transferred	
Einish	

Figure 4-6. Database Update Successful



5. TEMPLATES

5.1 WORKING FROM THE NEW DATABASE

The default location of new databases is *C:\ProgramData\SCIREQ\Database* (flexiWare 8.1.3 and earlier) or *C:\Users\Public\Documents\SCIREQ\flexiWare Data\Experiments* (flexiWare 8.2 and newer). To automatically connect to the new database, simply check the option to *Always connect to this database* (Figure 5-1).

flexiWare			X
Open E	xperiment Database		
Server:	localhost ~		
Filename:	C:\ProgramData\SCIREQ\Database\		
	Always connect to this database		
		<u>O</u> k	<u>C</u> ancel

Figure 5-1. Always connect to this database

Should there be multiple users working on different studies using the same computer to acquire flexiVent data, it is recommended to uncheck *Automatically connect to default EDB*. Each user should be working from a unique database. Please contact SCIREQ Technical Support if assistance is required in creating new databases.

Whether working with a single database or multiple databases, it is simple to access information about the database which is currently connected. When the Welcome Dialogue is displayed, the name and path of the database is shown at the bottom center, per Figure 55-2. Clicking on the link will open a similar dialog box to **Error! Reference source not found.**1. It is possible to browse to the location of a different database by clicking on the ... box following the Filename line as shown in Figure 5-1.

WELCOME TO FLEXIWARE 8		
	221	
STUDY DEFINITION & PLANNING	EXPERIMENTATION SESSION	REVIEW & REPORTING
Database: GENEBAL	gramData\SCIREQ\Database	

Figure 55-2. Database name and location on welcome dialogue



5.2 TEMPLATE TRANSFER

All default templates provided by SCIREQ will be updated during the software upgrade to reflect current recommendations for perturbations, scripts, ventilation, flow profiles, options, data acquisition and controller settings.

To transfer Templates from one database to another, simply select *Transfer Template* within the Database Manager (Figure 5-3) as detailed in the *Tech Guide-Transferring Templates Between Databases*.

REQ Database Manager				
tep 1: Specify which a	database action you wi	ish to perform		
lect the type of database action	on you wish to perform. The ava	ailable actions will be updated	based on the type of ac	tion you chose.
Action Type				
O Database Administration	O Database Maintenance	Data Transfer		
Actions				
Transfer Template(s)				

Figure 5-3. Transferring Templates between Databases

5.3 EXISTING TEMPLATES

SCIREQ default templates are included in databases that cover most experimental conditions and can be further customized with scripts, flow profiles etc. once inside the experimentation session.

If upgrading from flexiWare 7.2 and above, custom templates which were based on the default SCIREQ templates, should retain most properties except data acquisition and controller settings. Careful review directly following the update is recommended for custom templates.