24.13. mSupply server administration

mSupply server provides a number of administrative features that enable fine-tuning and robust management of the system.

Server monitor

The server monitor tells us our computer hardware specification, database engine version, and license information including maximum connections



Users

The Users tab shows us connected users with LAN information, IP address, machine name and Windows logon user name

Monitor Workson Monitor Monitor Monitor Monitor Monitor Monitor Monitor Monitor Multiplication Server Mittiplication HTTP Server UseryMachine;Session 4D User Machine name Session name IP Address Login date CPU Trr mSupply_user SUSSOL-PC sussol 192.168.3.220 21/05/2013 12:19 10:00:0 a a a a a a a a a a a	
mSupply_user SUSSOL-PC sussol 192.168.3.220 21/05/2013 12:19 00:00:0 Image: Sussol Image: Sussol	00 01
₩2	

Processes

The processes window shows system resource consumption for each process. This is a useful screen to analyse slow or otherwise unresponsive systems.

40	Monitor 🔮 Users (1) 👘	Processes (23) 💦 😹 Maintenar	nce 🛛 🖓 Application Server	👯 SQL Server 🛛 📇	HTTP Server Session;Proce	ss name	Q
	Display processes by groups			Users processe	15 (4) — 40 Processes (15	Spare pr	ocesses (4)
	Process name	Session	∽ Туре	Num	State	CPU Time	Activity
50	schedule		Stored procedure	4	Delayed	00:00:00	0.00 %
•	Client Manager	-	Application server	3	Waiting for flag	00:03:04	0.00 %
8	DB4D Flush		DB4D Server	0	Running	00:00:01	0.00 %
8	DB4D Index builder		DB4D Server	0	Running	00:00:00	0.00 %
0	Internal Timer Process		Application server	2	Executing	00:00:03	0.00 %
0	Task managers	-	SQL Server	0	Running	00:00:01	0.00 %
•	User Interface	-	Application server	1	Waiting for event	00:00:13	15.03 %
8	Application process	sussol	4D Client Process	5	Waiting for 1/0	00:00:04	0.00 %
8	MSU_sussol	sussol	4D Client Process	6	Waiting for VO	00:00:00	0.00 %
8	navigatorProc	sussol	4D Client Process	7	Waiting for I/O	00:00:00	0.00 %

Maintenance

The maintenance tab is where data info and actions can be retrieved and performed. The window shows when tasks were last performed and provides the settings to perform verification, data compacting and log recording.

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mSupply - [mSupply.4DC - 4D Server Administration]	
File Edit Window Help	- 8 x
🔀 Monitor 😤 Users (1) 🛛 🕲 Processes (23)	🛠 Maintenance 🌉 Application Server 🛛 🦉 SQL Server 🕮 HTTP Server
Last verification:	Unknown Date Verify Records and Indexes View Report Verification can help you detect performance problems or problems concerning data and/or index validity.
	Unknown Date Compact Data View Report Compacting your database reduces the space taken up by the data and optimizes their organization. Compacting should be used when you notice a decrease in performance or when you want to reduce the weight of your data. Compacting requires the server to be restarted. All users will be disconnected.
	6 minutes Restart server Restarting the server will disconnect all the users.
	15/05/2013 at 10:37 00/00/00 at 00:00 Start backup Preferences
	The server will not be restarted but the users will be blocked during the operation.

Backup

The Backup tab provides settings to manage the way your data is backed up and where the backup file resides. This is a critically important section to manage properly as your data is a key asset of your system.

Schedule a backup:

Last update: 2021/09/14 05:50 admin:server_administration https://docs.msupply.org.nz/admin:server_administration?rev=1631598657

mSupply	- Database	Settings										
) General) Interface	Compiler	û Database	贙 Moving	CC Backup	Client-server	WEB	SQL	PHP	Security	Compatibility	
Sche	duler Conf	iguration	Backup & R	estore								
			A	utomatic B	ackup:	Every Day				•		
					at	20:00)					
	Factory set	tings									Cancel	ОК

Configure content and destination of the backup:

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mSunnh	- Database	Settings											
mouppiy	- Database	secongs					_	_					
General	1nterface	Compiler	Database	Sin Moving	CC Backup	Client-server	Web	SQL SQL	PHP	Security	Compatibility		
Sche	duler Conf	iguration	Backup & R	estore									
C	ontent												
				se Moving Backup Client-server Web SQL PHP Security Compatibility & Restore									
						📃 User Structu	re File						
				Attack	hments:								~
	Interface Compiler Database Moving Backup Client-server Web SQL PHP Security Compatibility Scheduler Configuration Backup & Restore Content Image: Database Image: Database Image: Database Image: Database Content Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Database Image: Dat												
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						Delete				Add fol	der	Add file	
											,		
E	ackup File (estination	Folder				erver Web SQL PHP Security Compatibility						
						"Server Data	base" in v	olume "C	÷.		•		
				Use	d Space:	Client-server Web SQL PHP Security Compatibility							
L	og Manage	ment											
						📝 Use Log File							
					"VC	:H_pharmacy_d	ata.journ	al" in volu	ime "C:"		•		
	Factory sett	ings									Cano	el	OK

Backup & Restore: Decide how many backups to store in your destination folder. You may also set the system to retry backups if a backup is not possible at the scheduled date and time. Eg. if the system is not running.

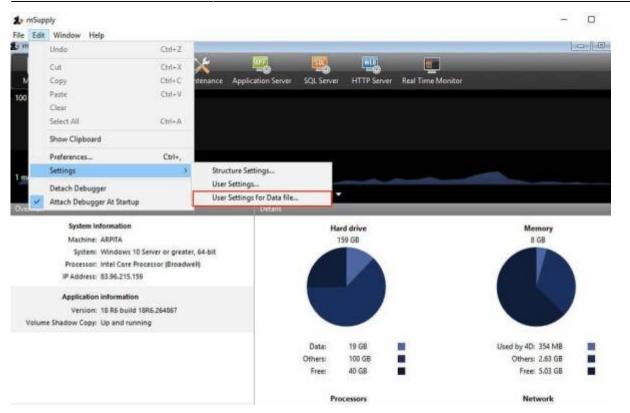
Last update: 2021/09/14 05:50 admin:server_administration https://docs.msupply.org.nz/admin:server_administration?rev=1631598657

mSupply - Database Settings	
Seneral Interface Compiler Database Moving Backup	Client-server Web SQL PHP Security Compatibility
Scheduler Configuration Backup & Restore General settings Delete oldest backup file If backup fails:	 Keep only the last Backup only if the data file has been modified after backup Retry at the next scheduled date and time Retry after 60 Seconds Cancel the operation after 5 attempts
Archive Segment Size (Mb): Compression Rate: Interlacing Rate: Redundancy Rate: Automatic Restore	Fast None
Factory settings	Cancel OK

Backup and Memory settings - according to the datafile

The database backup settings were initially singular but since mSupply v4.14 we have extra options. On the server Settings menu we have the following options :

- Structure Settings... [This has been widely used]
- User Settings... [This is not frequently used]
- User Settings for Data file... [We are now actively using this options]



The "User Settings for Data file..." options saves the backup and memory options as a file/folder and is located next to the data file.

Name	Date modified	Туре
🐊 Logs	13/09/2021 13:13	File folder
🎍 Settings	13/09/2021 13:13	File folder
🍌 temporary files	14/09/2021 06:08	File folder
🌗 example data original 181210.zip	10/12/2018 08:10	Compressed (zipp
🚔 MobileData.journal	14/09/2021 06:10	4D Journal File
📑 MobileData.Match	14/09/2021 06:10	4D Structure info
📸 MobileData.4DIndx	14/09/2021 06:24	4D Data Indexes
📑 MobileData.4DD	14/09/2021 07:40	4D Data File

Above, note that the Settings folder is next to the mSupply data. This setup allows for the mSupply server to be updgraded with backup and memory settings intact.

Application server

Application server: The application server provides settings to manage the structure (.4DC file) and data (.4DD) files. It also provides information about LAN and system memory.

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Edit Window		
nitor 👬 Users (1) 🔘 Processes (23) 🔀 Maintenance 🌉 Application Server 🜉 SQL Server 🖳 HTTP Server	
	State: Started	
	Starting time: 21/05/2013 at 12:18	
	Uptime: 6 minutes	
	Reject new connections	
C	onfiguration	
	Structure file: "mSupply.4DC" in volume "C:" •	
	Data file: "VCH_pharmacy_data.4dd" in volume "C:" •	
	Log file: VCH_pharmacy_data.journal	
	Mode: Compiled	
	Launched as service: No	
	Listening to IP: 192.168.3.220 Port: 19813	
	SSL enabled: No	
M	Aenory	
	Used cache memory: 11.71 MB Total cache memory: 100 MB	
	LOVEL COULD INCOME. YOU WILL	
N	Aaximum connections	
	Application Serven 4	

Web server

Web server: The Web server tab shows the web server status and running ports. The web server can be started or stopped form this tab.

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mSupply file extensions and types

This information is just for reference and to help your understanding.

On both Macintosh and Windows OS - five files.

- A structure file (.4DC suffix)
- A structure resource file (.rsr suffix)
- An executable file (.exe suffix)
- A data file (.4DD suffix)
- A data resource file (.4DR suffix)

File arrangement

It is easiest to keep all relevant files in the same folder, in a reasonably accessible place on your hard drive. (For example, directly on your "C" drive.)

If you make copies, don't leave them in the same folder, or you'll just get confused!

There are several folders to store reports and queries that need to be in the same folder as your structure file. Note that these folders are automatically created when you unzip the program files the first time. They are mentioned here so those of you with an inquisitive streak won't unknowingly do damage!

• A reports folder. This stores reports that are used by the program. Leave this folder alone- store

your own reports in the custom reports folder.

- A custom reports folder. Store the reports you create here.
- A custom queries folder. Store the queries (searches) you create here.
- A custom labels folder. Store any label templates you create here.

Note that on Windows or Macintosh the run time application (that is, the database engine-"4Drun.exe" file on windows) can reside anywhere on your hard disk, and does not need to be regularly backed up (although you should have one backup copy somewhere!)

Getting the right data file when you open mSupply

Important! If you open mSupply by double-clicking the "start mSupply" icon on the desktop (Mac users- by double-clicking the structure file), mSupply will try to open the same data file that was last opened. It will open the same file each time if you repeat the same procedure. If you make a copy, and then double-click the copy of the structure file, mSupply may still open using the data file from the original if it can find it.

To choose the data file manually do this:

Mac: hold down the option key as you click the OK button in the password window. You will then be given an open/save box to choose the correct data file.

Windows: Launch the program and then quickly hold down the Alt button until you see a box come up. It will give you an option to Select another data file.

If you are not sure which structure and data file you are currently using, on a pc logged into the correct datafile, choose about mSupply... from the help menu (Windows) or the apple menu (Mac).

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