zzzPAT Installation Guide for version 5.0.xx

Itamar Medical P/N - OM2198205 Rev. 6
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1 General Overview

The installation process will install a single Icon on the desktop, which opens the zzzPAT analysis and reporting software. Prior to installation, verify that you are in full system administrator mode with full privileges.

The zzzPAT software can be installed as a standalone or as a client/server configuration, using an SQL Express instance or an existing standard SQL instance.

- "Standalone" - intended for users that do not require sharing the database with other zzzPAT stations.
- "Client/Server" - intended for network installations with multiple zzzPAT stations accessing a central zzzPAT database over the network. If you wish to install this mode it is strongly advised to coordinate the installation with an Itamar Medical representative. Extra training is crucial for proper operation.
  - The "Server" mode is selected only once prior to installing the "Clients". This installation should be done on the dedicated computer which will serve as the server for the zzzPAT clients.
  - The "Client" mode is selected only after installing the "Server" and is repeated for all clients.

- The default installation will install an SQL Express instance that is used exclusively by the zzzPAT application. However, if a standard SQL instance exists already then the zzzPAT may be configured to use the existing instance.
2 zzzPAT structure

The zzzPAT application uses an SQL Express or Standard instance for its internal database.
In addition, it uses a "Files" folder to keep the raw data files (signals) for each night test. During the installation process you will be asked to specify this folder as well as the application files folder. If it is a shared database installation the files folder have to be a shared folder with read/write permissions for all users of the zzzPAT application.

The following diagram indicates the modules and the default paths used. The files folder can be located on a remote drive. It is recommended that this drive is backed up regularly.

Example of a standalone installation

Example of a shared installation
3 System Requirements

3.1 Hardware configuration

Pentium 4 3GHz CPU or higher

1 available USB port / Additional serial port is recommended
XGA screen resolution (minimum 1024 x 768 pixels)
Colors set to 16 bits or higher
RAM 1GB or higher

Disk space requirements:
- **Standalone installation**
  - 10GB minimum / 60GB recommended disk space on Files folder and at least 1.2GB on boot drive
- **Shared installation**
  - SQL DB drive – 1.2GB if using our default MS SQL Express installation and enough for 1 year worth of studies (500 KB / study).
  - Shared Files folder for raw data signal files - enough for 1 year worth of studies (30 MB / study).

3.2 Operating System

Windows Server 2008 with Service Pack 1 and above
Windows 7 with Service Pack 1
Windows 8
Windows 10

3.3 MS SQL Server

MS SQL Express Server 2008 R2
MS SQL Server 2008
MS SQL Server 2012

3.4 Installing zzzPAT software

zzzPAT can be installed either by CD or by downloading from Itamar website (itamar-medical.com).

This process will install a single Icon on the desktop, which opens the zzzPAT analysis and reporting software.

**CD installation:**
- Insert the zzzPAT installation CD into the computer’s CD-ROM drive.
- If the CD-ROM drive is set to run automatically, the installation will begin automatically. If installation does not begin, refer to the section below.
- Follow the instructions on the screen.

**If the installation does not start automatically:**
- Double-click the My Computer icon on your desktop.
- Double-click the CD-ROM icon labeled zzzPAT.
- Double-click ‘Setup.exe’.
Follow the instructions on the screen.

**Web Download:**
- Go to the Itamar website (itamar-medical.com) and download the zzzPAT software. In case of any issues with the download or installation process, please refer to the Clinical Account Specialist representative in your area.

### Note – for Win 8 and win 10

**Win 8 - Enabling the .NET Framework 3.5 in Control Panel**
If you get a message “Enable .Net Framework 3.5 via Windows Features dialog” you will have to enable the .NET Framework 3.5 yourself through the Control Panel. In Control Panel, choose Programs and Features, choose Turn Windows features on or off, and then select the Microsoft .NET Framework 3.5 check box. This option requires an Internet connection.
4 Step by step installation instructions

Prior to installation, verify that you are in full system administrator mode with full privileges.

a) Insert the zzzPAT installation disk into the CD drive. The installation program is activated, and the following dialog box appears.

b) Click Next. The following dialog appears. Please make sure that no other applications (including antivirus software) are currently running.

c) Click Next. The License Agreement dialog appears.
d) After reading the agreement, select I accept the terms in the license agreement and click Next to continue. The ‘Customer Information’ dialog box appears.

e) Enter user name and company. Click Next to continue. The ‘Database Properties’ dialog appears.
4.1 Installations types

4.1.1 Standard - Standalone installation only

The zzzPAT Installer will assist in selecting a destination location for the zzzPAT database. This is the location for all the signal files (30M per study). If the necessary folder does not exist, zzzPAT Installer will create the folder.
a) If you wish to change the default folder, select the Change button. The ‘Choose Folder’ dialog appears.

![Choose Folder Dialog]

b) Make sure you are not selecting a mapped drive.

c) Select OK to Proceed.

d) The zzzPAT Installer will assist in selecting a destination location for the zzzPAT application files. If you wish to change the default folder, select the Change button.

![Application Folder Dialog]

e) The last dialog before standalone installations summarizes your selections, after reading this summary, press Install to begin installation.
At the end of the installation you should restart your computer.

4.1.2 Advanced - Server installation only (Express SQL Server)
The following selection will result in Server installation of an Express SQL instance. The Server side installation creates a shared MS-SQL database that is used by multiple zzzPAT stations. Accordingly, the shared database needs to be created only once per site installation.
a) The zzzPAT Installer will assist in selecting a destination location for the files folder where all the signal files will be saved.

b) Press the Change button to enter a UNC path for the database files folder. This folder will be accessed by all zzzPAT users so it needs to be shared on the network with full control permissions for the "Everyone" group.

If you do not want to use the "Everyone" group, please define a group of "zzzPAT" users and grant this group Full Access to this shared folder. In that case you will have to grant the same permissions to the following services:
SQL Server (ZZSQL)
SQL Server VSS WRITER
c) Set collation to support the language used in the client PCs

d) The last dialog prior to beginning server installation summarizes your selections. After reading this summary, press Install to begin installation.

4.1.3 Advanced - Client installation only (Express SQL Server)
The following selection will result in Client installation. Prior to performing a Client side installation, a Shared Database installation must be previously performed on a dedicated computer.
a) The Client installation may also have a local database and during zzzPAT login the user can select connecting to the Shared or Local database. For this option you should check the "With Local database" check box. It is not recommended to install the local database option unless offline work is anticipated with the particular computer. Press Next to define the Shared Database.

b) You can also enter the <name of the computer with the SQL server>\ZZZSQL, i.e. SQL_PC\ZZZSQL. The zzzPAT installer will identify and display the
c) The zzzPAT Installer will assist in selecting a destination location for the zzzPAT application files. If you wish to change the default folder, select the Change button.

d) Press **Next** to proceed.
e) The last dialog prior to client installation summarizes your selections. After reading this summary, press **Install** to begin installation.

f) At the end of the installation the final dialog is displayed.

g) At the end of the installation you should restart your computer.

### 4.1.4 Advanced – Server installation only (Existing Server installation)

If you want to use an existing SQL server make sure you perform the following steps BEFORE starting the zzzPAT installation:
1. Create **zzPAT** database through **SQL Management studio**

![Creating Database](image1.png)

2. Press OK

3. Repeat steps 1-2 for creating **zzOld**, **zzNew** and **zzHL7** databases

4. Create Logins **zzPat_Admin**, **zzPat_User** and **zzPat_BackupAdmin** for the 4 databases you created according to the script in **Appendix A: Create_Logins Script**. Make sure you change the default password “A123456” that appears in 3 places in the script to the password of your preference.
   - **Use the same password in all three places!**
   - **Do not use the characters % ^ ' " and ; (percent, caret, apostrophe, quotation marks and semicolon) in the password!**

5. Create **Job Fix_Orpha_Users** according to the script in **Appendix B: Fix_Orpha_Users Script**

6. Close **SQL Management studio** so no connections to the new 4 databases remain open, otherwise the installation will fail.

7. Verify that **SQL Server Agent Service** is up and running
8. Now you can install zzzPAT

In the Database Properties dialog select the Standard/Enterprise SQL Server option and continue as follows:
a) Select the **Shared database – Server** option in order to create the zzPAT database and only after you are done this installation you can repeat the **Shared database – Client** option for each client.

b) Enter the instance name and **zzPAT_Admin** password (see section 4).

c) Press **Next**.

d) Press the Change button to enter a UNC path for the database files folder. This folder will be accessed by all zzzPAT users so it needs to be shared on the network with full control permissions for the "Everyone" group.

**If you do not want to use the "Everyone" group,** please define a group of "zzzPAT" users and grant this group Full Access to this shared folder. In that case you will have to grant the **same permissions** to the following services:

**SQL Server (ZZZSQL)**

**SQL Server VSS WRITER**
e) Ready to install. The last dialog prior to beginning server installation summarizes your selections.

f) After reading this summary, press **Install** to begin installation.

**4.1.5 Advanced – Client installation only (Existing Server installation)**

The following selection will result in Client installation. Prior to performing a Client side installation, a Shared Database installation must be previously performed on a dedicated computer.
a) Enter the instance name and zzPAT_Admin password (from step #4).
b) Press Next.
c) The zzzPAT Installer will assist in selecting a destination location for the zzzPAT application files. If you wish to change the default folder, select the Change button.
d) Press Next.
e) The last dialog prior to client installation summarizes your selections. After reading this summary, press **Install** to begin installation.
4.1.6 Advanced – Existing Server installation without setup

If you wish to install the zzzPAT database without running a setup executable on your server you must perform the following steps:

1. Create a shared folder for the raw data files that will be used by the database. The UNC path to this folder and its subfolders will be accessed by all zzzPAT users so it needs to be shared on the network with full control permissions for the "Everyone" group. If you do not want to use the "Everyone" group, please define a group of "zzzPAT" users and grant this group Full Access to this shared folder. In that case you will have to grant the same permissions to the following services:
   - SQL Server (ZZZSQL)
   - SQL Server VSS WRITER

2. Create the following 3 subfolders under the shared files folder:
   - Archive
   - Backup
   - Files

3. Create zzzPAT database through SQL Management studio

4. Press OK

5. Repeat steps 3-4 for creating zzzOld, zzzNew and zzzHL7 databases

6. Create Logins zzzPat_Admin, zzzPat_User and zzzPat_BackupAdmin for the 4 databases you created according to the script in Appendix A: Create_Logins
Script. Make sure you change the default password “A123456” that appears in 3 places in the script to the password of your preference.

a. Use the same password in all three places!

b. Do not use the characters % ^ " and ; (percent, caret, apostrophe, quotation marks and semicolon) in the password!

7. Create Job Fix_Orpha_Users according to the script in Appendix B: Fix_Orpha_Users Script

8. Close SQL Management studio so no connections to the new 4 databases remain open, otherwise the installation will fail.

9. Verify that SQL Server Agent Service is up and running

10. Copy the files found on the installation disk under the Scripts\Manual_install folder at the c:temp location.

11. Run the newsqlinstall_sm.bat file with the proper parameters according to the instructions in the HowTo_run_batch.txt file
5 Login to zzzPAT

A login name and password are needed to operate this software. The default administrator login information is:

**Login name:** 111  
**Login password:** 111

To modify the administrator login name and password, and to add/modify additional users, refer to User Administration section in Operation Manual, which can be found in the installation CD.
6 Testing Installation

In order to verify successful installation do the following steps:

- Import a file from the Samples folder in the installation CD (In the zzzPAT application menu open Tools > Import > Import from Folder > Browse Select the Samples folder from the installation CD and then press Import)
- After import is completed, open a study and issue a report.
7 Upgrading from previous versions

It is recommended to use the “Patch” program that upgrades your current version to the latest. It can be found in the installation CD or downloaded from the www.Itamar-medical.com support section.

You can also upgrade by uninstalling the old zzzPAT version and re-installing. The zzzPAT installer will identify if the older version has not been removed and will prompt you to uninstall it.

The upgrade of the SQL database if needed will be performed automatically the first time zzzPAT is launched following an upgrade of zzzPAT.

<table>
<thead>
<tr>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uninstalling zzzPAT does not remove the zzzPAT database, however, it is strongly recommended to backup the database before upgrading.</td>
</tr>
</tbody>
</table>

Follow these steps in order to upgrade to a newer zzzPAT version without using the Patch program:

- Backup the entire database of the existing zzzPAT installation (see Database Wizard, Backup section in Operation Manual which can be found in the installation CD).
- Uninstall the previous version using ‘Add/Remove Programs’ applet in Control Panel (see section 8 Uninstalling).
- Select ‘Setup.exe’ from the zzzPAT installation CD-ROM to start the zzzPAT installation program.
8 Uninstalling

You can uninstall zzzPAT using the Add/Remove Programs in the Control Panel. Additional options are available if you insert the installation disk to the CD drive. The following dialog then appears.

Use the "Remove zzzPAT" option if you wish to uninstall in order to re-install a newer version.
If you wish to remove the MS SQL server from your computer (and lose all studies in the database) you can select the "Remove Microsoft SQL Server" option prior to selecting the "Remove zzzPAT" option.

<table>
<thead>
<tr>
<th>Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selecting the &quot;Remove Microsoft SQL Server&quot; will result in <strong>losing all studies</strong> in the database.</td>
</tr>
</tbody>
</table>
9 Troubleshooting

9.1 If Connection to database cannot succeed and you have the Firewall as ON
Ensure that the following exceptions are added to the Firewall:
- C:\Program Files\Microsoft SQL Server\90\Shared\sqlbrowser.exe
- C:\Program Files\Microsoft SQL Server\MSSQL.x\MSSQL\bin\sqlservr.exe (x may be 1,2, etc depending on the current number of instances, the last instance will be the zzzSQL instance)
- Ensure that the TCP/IP protocol is enabled

9.2 If you did not want to use the "Everyone" group and defined a group of "zzzPAT Users" with Full Access to the shared folder but you encounter problems updating the database:
Ensure that you give the same permissions as granted to the “zzzPAT Users” group, to the following services:
SQL Server (ZZZSQL)
SQL Server VSS WRITER

For additional information or for assistance in the zzzPAT installation process, please contact Itamar Medical customer support, or your local dealer.
Support numbers can be found in the Support section of Itamar Medical website, at www.itamar-medical.com
10 Appendix A: Create_Logins Script

----------------------------------
-- Create Logins for DB: zzPat
----------------------------------
-- zzPat_Admin

USE [master]
GO
CREATE LOGIN [zzPat_Admin] WITH PASSWORD=N'123456',
DEFAULT_DATABASE=[zzPat], CHECK_EXPIRATION=OFF, CHECK_POLICY=ON
GO
GRANT VIEW SERVER STATE TO zzPat_Admin
GO
-- get permission dbcreator role INSTANCE
EXEC master..sp_addsrvrolemember @loginame = N'zzPat_Admin', @rolename = N'dbcreator'
GO

USE [msdb]
GO
CREATE USER [zzPat_Admin] FOR LOGIN [zzPat_Admin]
GO
EXEC sp_addrolemember N'SQLAgentOperatorRole', N'zzPat_Admin'
GO
EXEC sp_addrolemember N'SQLAgentReaderRole', N'zzPat_Admin'
GO
EXEC sp_addrolemember N'SQLAgentUserRole', N'zzPat_Admin'
GO

USE [zzPat]
GO
CREATE USER [zzPat_Admin] FOR LOGIN [zzPat_Admin]
GO
EXEC sp_addrolemember N'db_owner', N'zzPat_Admin'
GO

-- zzPat_BackupAdmin

USE [master]
GO
CREATE LOGIN [zzPat_BackupAdmin] WITH PASSWORD=N'123456',
DEFAULT_DATABASE=[zzPat], CHECK_EXPIRATION=OFF, CHECK_POLICY=ON
GO
GRANT VIEW SERVER STATE TO zzPat_BackupAdmin
GO
-- get permission dbcreator role INSTANCE
EXEC master..sp_addsrvrolemember @loginame = N'zzPat_BackupAdmin', @rolename = N'dbcreator'
GO

USE [msdb]
GO
CREATE USER [zzPat_BackupAdmin] FOR LOGIN [zzPat_BackupAdmin]
GO
EXEC sp_addrolemember N'SQLAgentOperatorRole', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'SQLAgentReaderRole', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'SQLAgentUserRole', N'zzPat_BackupAdmin'
GO
USE [zzPat]
GO
CREATE USER [zzPat_BackupAdmin] FOR LOGIN [zzPat_BackupAdmin]
GO
EXEC sp_addrolemember N'db_owner', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_backupoperator', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_datareader', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_datawriter', N'zzPat_BackupAdmin'
GO
-- zzPat_User
USE [master]
GO
CREATE LOGIN [zzPat_User] WITH PASSWORD=N'A123456'
DEFAULT_DATABASE=[zzPat], CHECK_EXPIRATION=OFF, CHECK_POLICY=ON
GO
USE [zzPat]
GO
CREATE USER [zzPat_User] FOR LOGIN [zzPat_User]
GO
EXEC sp_addrolemember N'db_backupoperator', N'zzPat_User'
GO
EXEC sp_addrolemember N'db_datareader', N'zzPat_User'
GO
-- CReate Logins  for DB: zzNew
-------------------------------
-- zzPat_Admin
USE [zzNew]
GO
CREATE USER [zzPat_Admin] FOR LOGIN [zzPat_Admin]
GO
EXEC sp_addrolemember N'db_owner', N'zzPat_Admin'
GO
-- zzPat_BackupAdmin
USE [zzNew]
GO
CREATE USER [zzPat_BackupAdmin] FOR LOGIN [zzPat_BackupAdmin]
GO
EXEC sp_addrolemember N'db_owner', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_backupoperator', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_datareader', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_datawriter', N'zzPat_BackupAdmin'
GO
-- zzPat_User
USE [zzNew]
GO
CREATE USER [zzPat_User] FOR LOGIN [zzPat_User]
GO
EXEC sp_addrolemember N'db_backupoperator', N'zzPat_User'
GO
EXEC sp_addrolemember N'db_datareader', N'zzPat_User'
GO

----------------------------------
-- Create Logins for DB: zzOld
-------------------------------
-- zzPat_Admin

USE [zzOld]
GO
CREATE USER [zzPat_Admin] FOR LOGIN [zzPat_Admin]
GO
EXEC sp_addrolemember N'db_owner', N'zzPat_Admin'
GO

-- zzPat_BackupAdmin

USE [zzOld]
GO
CREATE USER [zzPat_BackupAdmin] FOR LOGIN [zzPat_BackupAdmin]
GO
EXEC sp_addrolemember N'db_owner', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_backupoperator', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_datareader', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_datawriter', N'zzPat_BackupAdmin'
GO

-- zzPat_User

USE [zzOld]
GO
CREATE USER [zzPat_User] FOR LOGIN [zzPat_User]
GO
EXEC sp_addrolemember N'db_backupoperator', N'zzPat_User'
GO
EXEC sp_addrolemember N'db_datareader', N'zzPat_User'
GO

----------------------------------
-- Create Logins for DB: zzHL7
-------------------------------
-- zzPat_Admin

USE [zzHL7]
GO
CREATE USER [zzPat_Admin] FOR LOGIN [zzPat_Admin]
GO
EXEC sp_addrolemember N'db_owner', N'zzPat_Admin'
GO

-- zzPat_BackupAdmin
USE [zzHL7]
GO
CREATE USER [zzPat_BackupAdmin] FOR LOGIN [zzPat_BackupAdmin]
GO
EXEC sp_addrolemember N'db_owner', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_backupoperator', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_datareader', N'zzPat_BackupAdmin'
GO
EXEC sp_addrolemember N'db_datawriter', N'zzPat_BackupAdmin'
GO

-- zzPat_User

USE [zzHL7]
GO
CREATE USER [zzPat_User] FOR LOGIN [zzPat_User]
GO
EXEC sp_addrolemember N'db_backupoperator', N'zzPat_User'
GO
EXEC sp_addrolemember N'db_datareader', N'zzPat_User'
GO
EXEC sp_addrolemember N'db_datawriter', N'zzPat_User'
GO
Appendix B: Fix_Orpha_Users Script

USE [msdb]
GO

/***/
BEGIN TRANSACTION
DECLARE @ReturnCode INT
/***/
BEGIN
EXEC @ReturnCode = msdb.dbo.sp_add_category @class = N'JOB', @type = N'LOCAL',
@name = N'[Uncategorized (Local)]'
IF (@@ERROR <> 0 OR @ReturnCode <> 0)
GOTO QuitWithRollback
END

DECLARE @jobId BINARY(16)
EXEC @ReturnCode = msdb.dbo.sp_add_job @job_name=N'Fix_Orpha_Users',
@enabled=1,
@notify_level_eventlog=0,
@notify_level_email=0,
@notify_level_netsend=0,
@notify_level_page=0,
@delete_level=0,
@description=N'No description available.',
@category_name=N'[Uncategorized (Local)]',
@owner_login_name=N'sa', @job_id = @jobId OUTPUT
IF (@@ERROR <> 0 OR @ReturnCode <> 0)
GOTO QuitWithRollback

EXEC @ReturnCode = msdb.dbo.sp_add_jobstep @job_id = @jobId,
@step_name=N'Fix_Orpha_Users',
@step_id=1,
@cmdexec_success_code=0,
@on_success_action=1,
@on_success_step_id=0,
@on_fail_action=2,
@on_fail_step_id=0,
@retry_attempts=0,
@retry_interval=0,
@os_run_priority=0, @subsystem='NTSQL',
@command=N'
USE zzPat;
EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_User'';
EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_Admin'';
EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_BackupAdmin'';
USE zzNew;
EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_User'';
EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_Admin'';
EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_BackupAdmin'';
USE zzOld;

QuitWithRollback:
ROLLBACK TRANSACTION
RETURN @ReturnCode

USE [msdb];
GO
EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_User'';
EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_Admin'';
EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_BackupAdmin'';

USE zzHL7;

EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_User'';
EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_Admin'';
EXEC sp_change_users_login ''Auto_Fix'', ''zzPat_BackupAdmin'';

IF (@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback
EXEC @ReturnCode = msdb.dbo.sp_update_job @job_id = @jobId, @start_step_id = 1
IF (@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback
EXEC @ReturnCode = msdb.dbo.sp_add_jobserver @job_id = @jobId, @server_name = N'(local)'
IF (@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback
COMMIT TRANSACTION
GOTO EndSave
QuitWithRollback:
    IF (@TRANCOUNT > 0) ROLLBACK TRANSACTION
EndSave:

GO