

# TeamDrive Personal Server

Windows, Mac, Linux



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# WINDOWS

# 1 TeamDrive Personal Server (TDPS)

## 1.1 Structure of the Personal Server

### 1.1.1 Folder Structure

...\TeamDrive Personal Server\

**data\**

**tdps.config**

**TeamDrivePersonalServer.exe**

#### 1.1.1.1 **data\**

This is the default directory in which the repository of your server is stored. It contains all the data of all the Spaces of all the users that use this server. You can change the location of the repository by editing the attribute "repository-data" in the configuration file tdps.config.

**NOTE:** The repository of your server must be installed on an NTFS partition. Network partitions are not supported. The server uses file locking.

**ATTENTION:** Please backup this directory frequently. All the data of all the users that use the server is stored in it.

If you are using the default directory, be aware that a new installation or an update could overwrite older files and directories easily.

#### 1.1.1.2 **tdps.config**

This is where all the settings of Your Personal Server are stored. You can edit this file manually with a text editor.

**NOTE:** We advice to regularly backup this file.

**ATTENTION:** Backup this file before updating the server !!!

### 1.1.2 Menu Structure

The menu items are located in „Start→Programs“. They are mainly self-explaining.

TeamDrive Personal Server\

Deinstall\

Deinstall TeamDrive Personal Server

Windows Services\

deregister as service

Register as service

Show Windows Services

Edit Configuration

Open Log File

Start TeamDrive Personal Server

Stop TeamDrive Personal Server

## 1.2 Install TeamDrive Personal Server

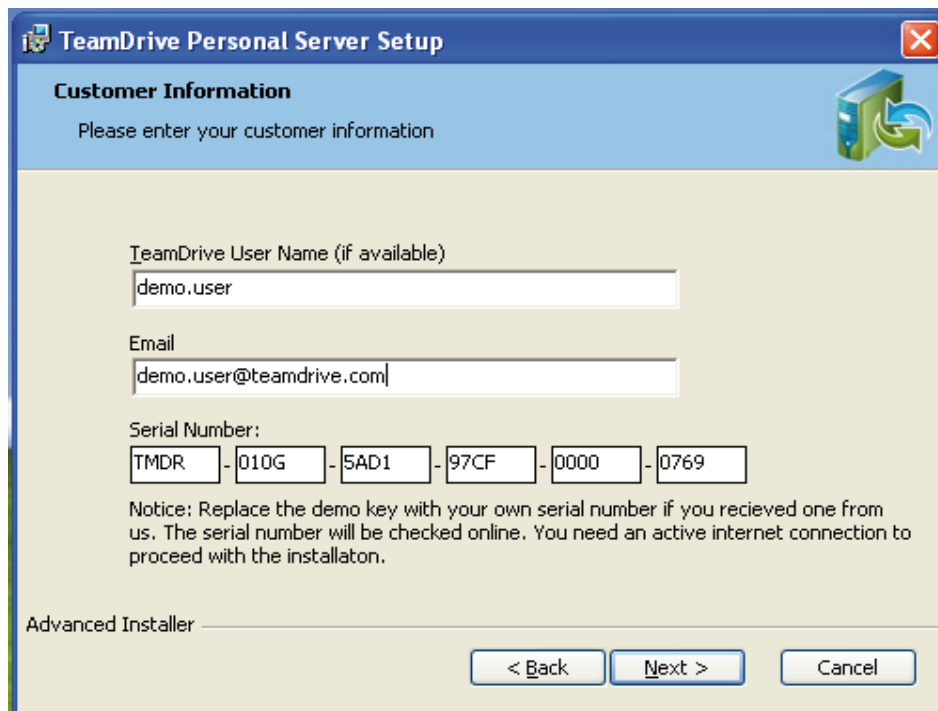
a) Start the installation by double-clicking the installer

b) Follow the instructions provided by the installer





## c) Enter user information



**TeamDrive Personal Server Setup**

**Customer Information**  
Please enter your customer information

TeamDrive User Name (if available)  
demo.user

Email  
demo.user@teamdrive.com

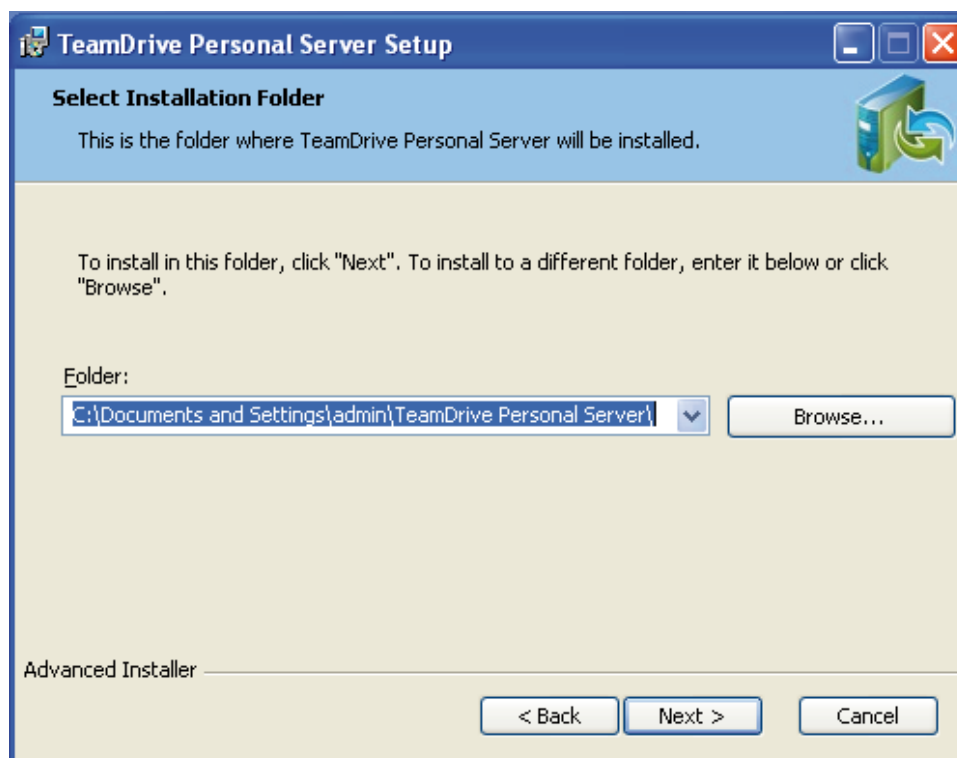
Serial Number:  
TMDR - 010G - SAD1 - 97CF - 0000 - 0769

Notice: Replace the demo key with your own serial number if you recieved one from us. The serial number will be checked online. You need an active internet connection to proceed with the installaton.

Advanced Installer

< Back   Next >   Cancel

## d) Choose install path



**TeamDrive Personal Server Setup**

**Select Installation Folder**  
This is the folder where TeamDrive Personal Server will be installed.

To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".

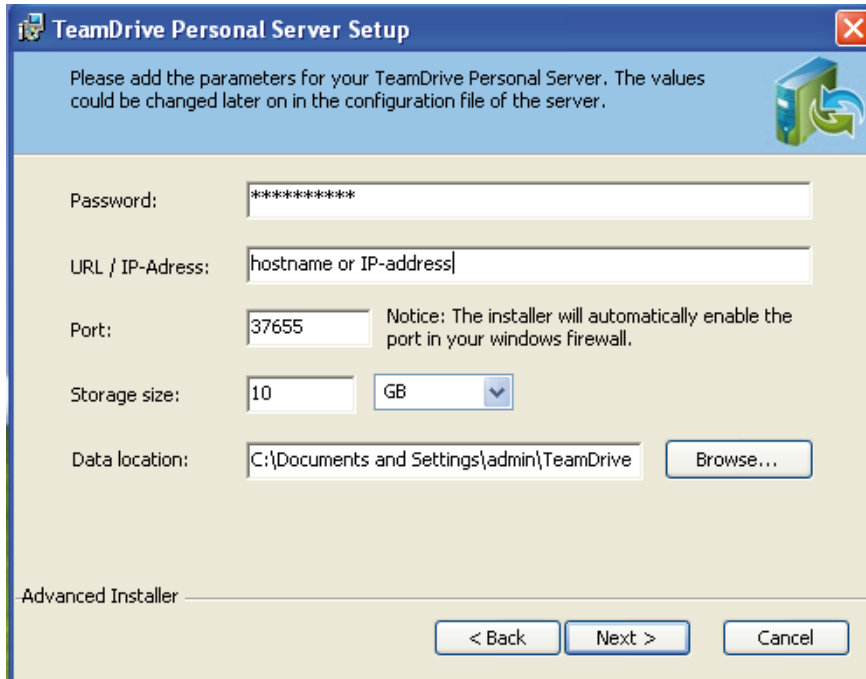
Folder:  
C:\Documents and Settings\admin\TeamDrive Personal Server\

Browse...

Advanced Installer

< Back   Next >   Cancel

e) Enter settings. Refer to the description of the configuration parameters at 1.4.1.



The screenshot shows the 'TeamDrive Personal Server Setup' window. It has a title bar with a close button. Below the title bar is a blue header area with the text: 'Please add the parameters for your TeamDrive Personal Server. The values could be changed later on in the configuration file of the server.' To the right of this text is a green circular arrow icon. The main area is light beige and contains several input fields: 'Password:' with a masked field '\*\*\*\*\*'; 'URL / IP-Address:' with a text field containing 'hostname or IP-address'; 'Port:' with a text field containing '37655' and a notice: 'Notice: The installer will automatically enable the port in your windows firewall.'; 'Storage size:' with a text field containing '10' and a dropdown menu set to 'GB'; and 'Data location:' with a text field containing 'C:\Documents and Settings\admin\TeamDrive' and a 'Browse...' button. At the bottom left is the text 'Advanced Installer'. At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.

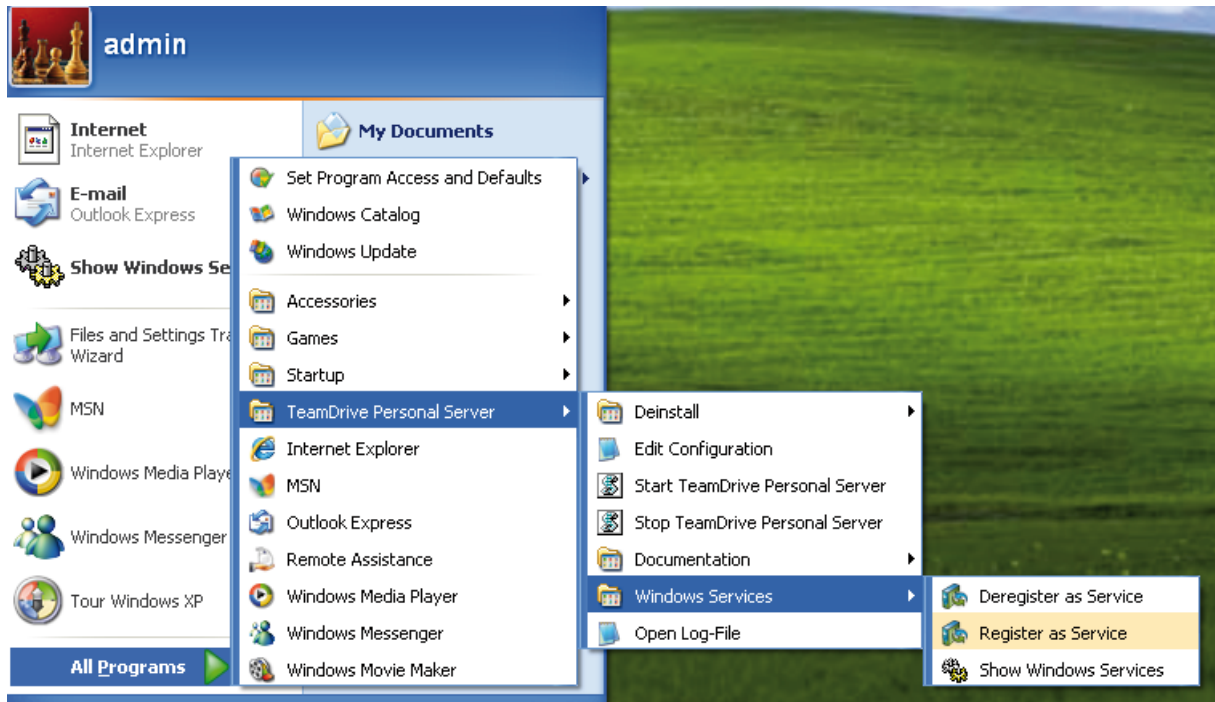
f) Finish the installation.

**NOTE:** To use your TeamDrive Clients with your TDPS, the clients need to be properly configured. Read more in chapter „Connect to TeamDrive Client“.

## 1.3 Update TeamDrive Personal Server

Execute the installation setup of the new version and follow the instructions of the installer.

**NOTE:** New versions might also have new versions of the documentation.



## 1.4 Configure TeamDrive Personal Server

Edit the config file: „**tdps.config**“, which is located in the TeamDrive Personal Server directory.

### 1.4.1 Configuration Parameters

Most attributes can be used with their default values. The ones crucial for setting up the server are the following.

#### 1.4.1.1 Valid License Key

**license-key= TMDR-010G-5AD1-97CF-0000-0769**

Enter your license key here. You will obtain one when purchasing a Personal Server.

The default value is a demo key for 10 GB storage, no time limit.

#### 1.4.1.2 Server Password

Enter your password in plain text in the installer. The installer will put your MD5 encrypted password into the config-file.

To change your password later on in the `tdps.config` you will need a MD5-generator-tool. There are plenty to be found on the Internet. Try keywords „**MD5 Generator**“ and use the site of your choice to generate your password.

Password in this example „**MyPassword**“

**server-password=48503dfd58720bd5ff35c102065a52d7**

#### 1.4.1.3 Hostname /-address

**server-host= 192.168.30.177 (enter IP-Adress or Hostname without HTTP in front)**

The address (hostname or IP) the server responds to. Seen from the viewpoint of the clients.

**NOTE:** 127.0.0.1/localhost can only be used for a local installation (server and client on the same machine). If the client is running on another machine in the local network, this needs to be the servers IP-address. To identify the IP-address, open a terminal window on the server and type „`ipconfig /all`“.

In a global environment, if the server is located behind a router this address needs to be the address the router responds to from a clients point of view and a proper port forwarding needs to be set up. Consider that your Internet Service Provider (ISP) might be giving you a different IP-address each time you connect with to internet.

To be able to provide a static address for the clients, it could be a solution to use a service like DynDNS ([www.dyndns.com](http://www.dyndns.com)). In this case it needs to be the hostame that is registered with DynDNS (e.g. „teamdriveServer.dyndns.net“)

#### 1.4.1.4 Port Number

**server-port=37655**

Port the server listens to.

**NOTE:** Should the port be changed later on, it might be required to allow the port through the firewall.

#### 1.4.1.5 Repository Path

**repository-data=./data**

This is where the repository of the server is stored. Default is set to store the repository in the TeamDrive Personal Server directory. For subsequent displacement of the data directory, stop the server if it is running and move the existing data directory to the desired storage location before setting it as the new repository path.

**NOTE:** Be aware that the repository must be located on an NTFS partition. At this point network devices are not supported. We advice to use local hard disks.

**ATTENTION:** This directory should be backed up regularly

#### 1.4.1.6 Maximum Repository Size

##### **repository-size=5GB**

The minimum size for a repository is 10MB. If you have a limited storage license the value of repository-size may not exceed your maximum storage volume. This would prevent the server from starting. The maximum size for the repository must be specified as a number followed by one of the following unit abbreviations MB, GB or TB.

### 1.5 Use TeamDrive Personal Server as a Service

The TeamDrive Personal Server will be registered as a service by the installation.

To unregister the service use the menu item "Windows Services" > „unregister service”.

### 1.6 Using the TeamDrive Personal Server

#### 1.6.1 Start the Server

To start the server use "Start TeamDrive Personal Server".

#### 1.6.2 Stop the Server

To stop the server use "Stop TeamDrive Personal Server"

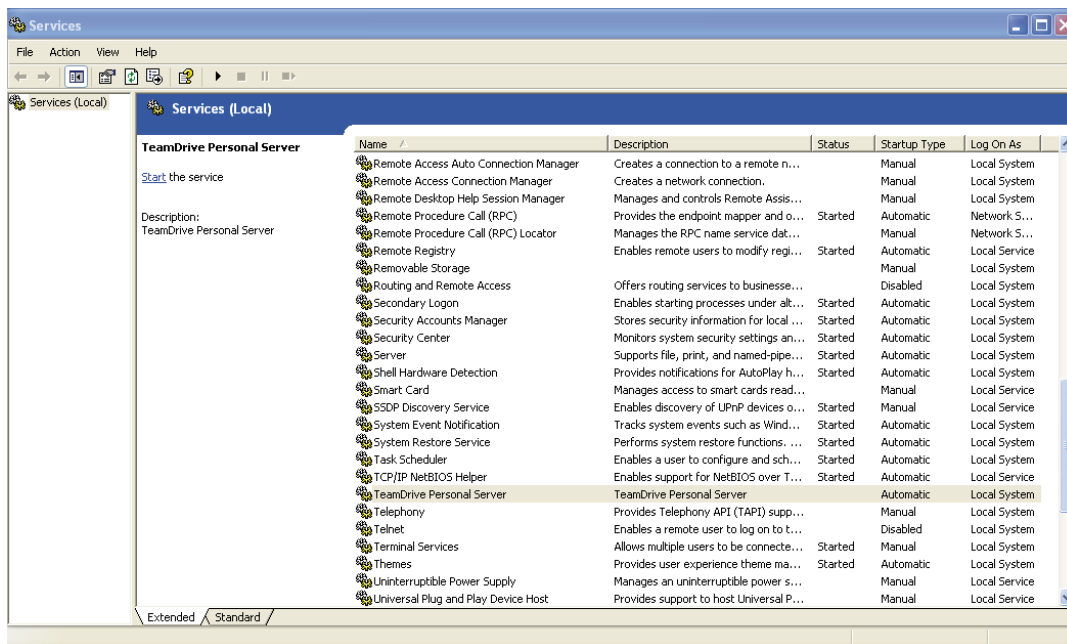
#### 1.6.3 Check Server Status

Check the status using "Show Windows Services". The status will also be logged in the log file. You can always check it, using "Open Log File".

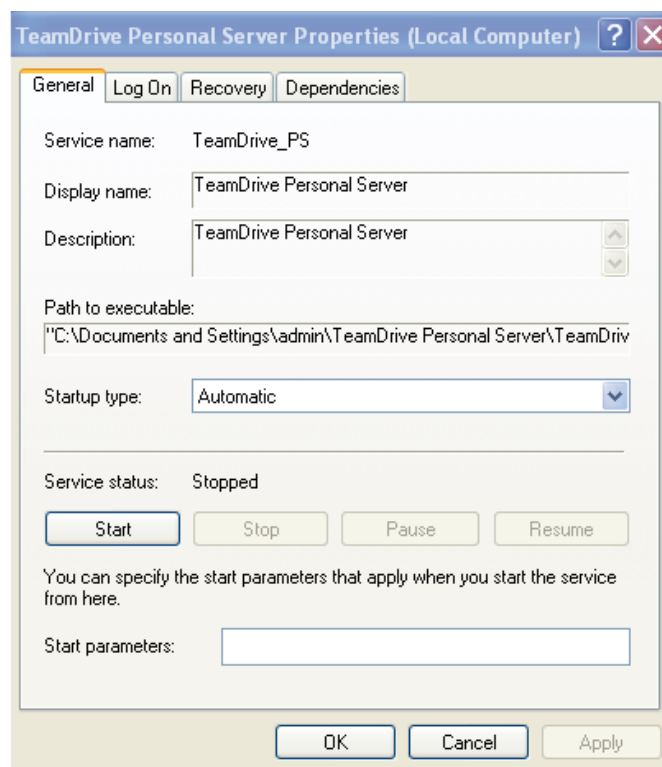
#### 1.6.4 Run TeamDrive Personal Server automatically

The TDPS will be set to start automatically by default. To change that, choose menu item "Windows Services" > "Show Windows Services". Right-click "TeamDrive Personal Server" and select "Properties".

## TeamDrive Personal Server - WINDOWS



a) Configure service:



# MAC

# 1 TeamDrive Personal Server (TDPS)

## 1.1 Structure of the Personal Server

### 1.1.1 Folder Structure

.../TeamDrivePersonalServer/

**data/**

**tdpsd**

**stop-tdps**

**watch-tdps**

**tdps-md5pwd**

**tdps.config**

#### 1.1.1.1 data/

This is the directory in which the repository of your server will be stored. It contains all the data of all the Spaces of all the users that use this server. As a default an empty repository will be created in “Library/Application Support/TeamDrive Personal Server/” inside the users home directory. You can change the location of the repository by editing the attribute “repository-data” in the configuration file tdps.config.

**NOTE:** The Repository of your server must be installed on a local partition. Network partitions are not supported. The server uses file locking.

**ATTENTION:** Please backup this directory frequently. All the data of all the users that use the server is stored in it.



**1.1.1.2      tdpsd**

File to start the TeamDrive Personal Server.

**1.1.1.3      stop-tdps**

File to Stop the Personal Server.

**1.1.1.4      watch-tdps**

Starts the Personal Server and displays its status in the command line window.

**1.1.1.5      tdps-md5pwd**

Encrypts your password to an MD5-Hash String

**1.1.1.6      tdps.config**

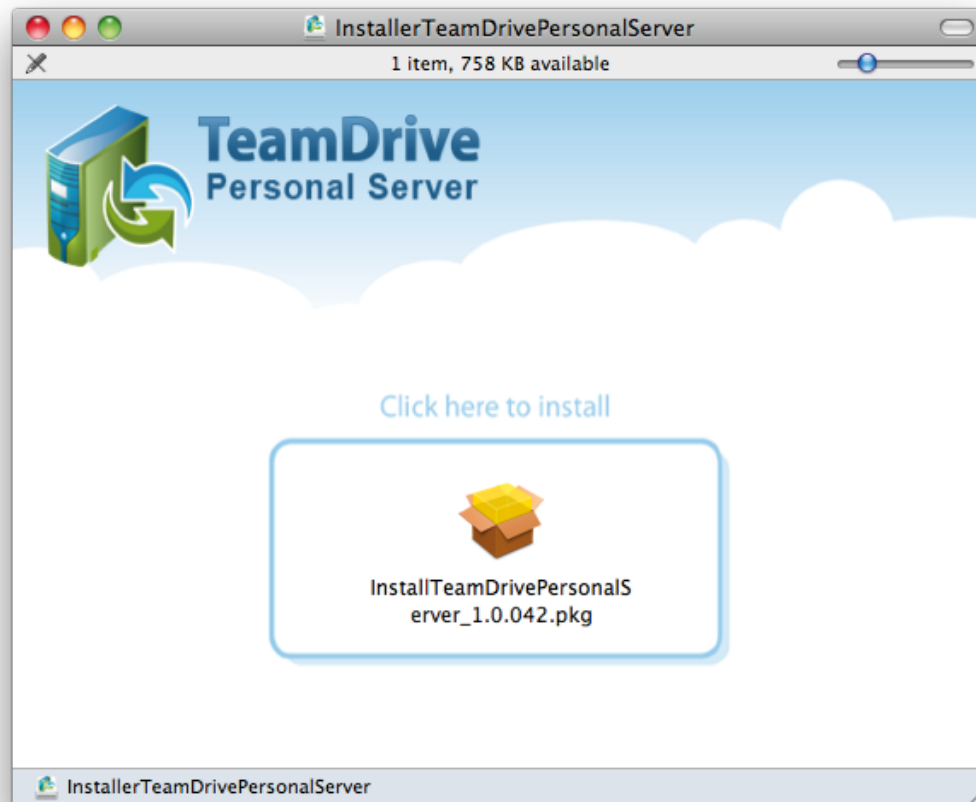
This is where all the settings of your Personal Server are stored. You can edit this file manually with a text editor.

**NOTE:**      We advice to regularly backup this file.

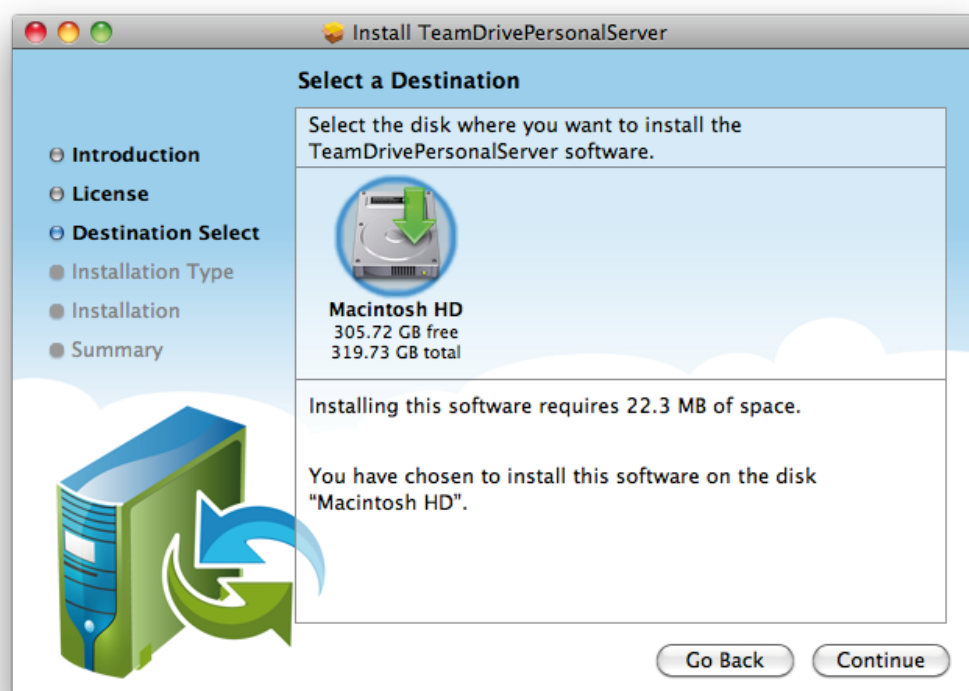
**ATTENTION:** Backup this file before updating the server !!!

## 1.2 Install TeamDrive Personal Server

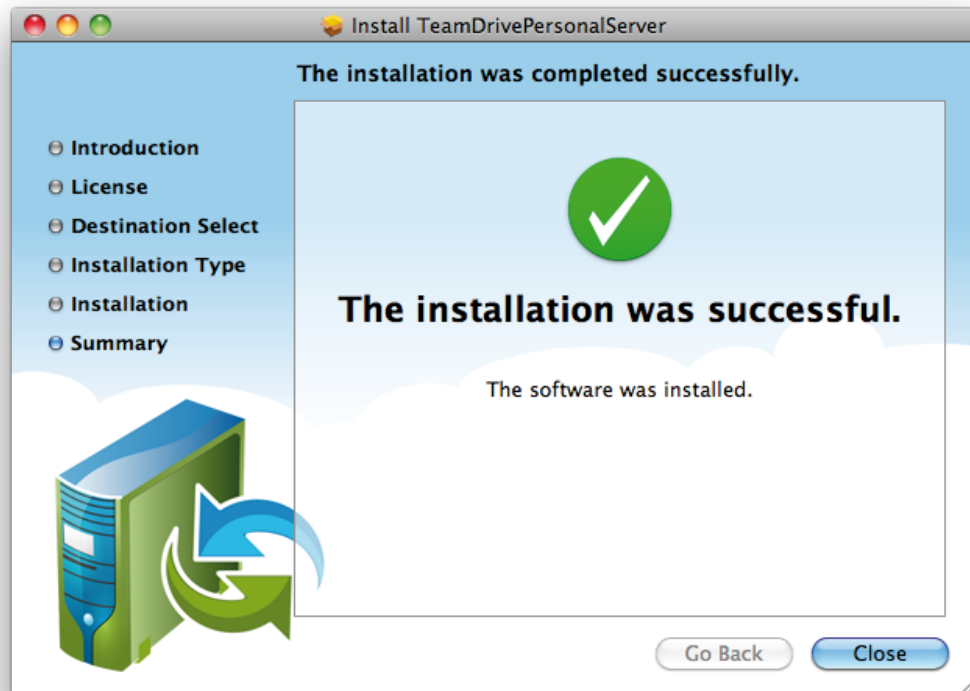
- a) Start the installation by double-clicking the installer.



- b) Follow the instructions provided by the installer



c) Finish the installation process.



### 1.3 Update TeamDrive Personal Server

1. Stop the TeamDrive Personal Server.
2. Execute the setup of the newer version and follow the instructions of the installer.

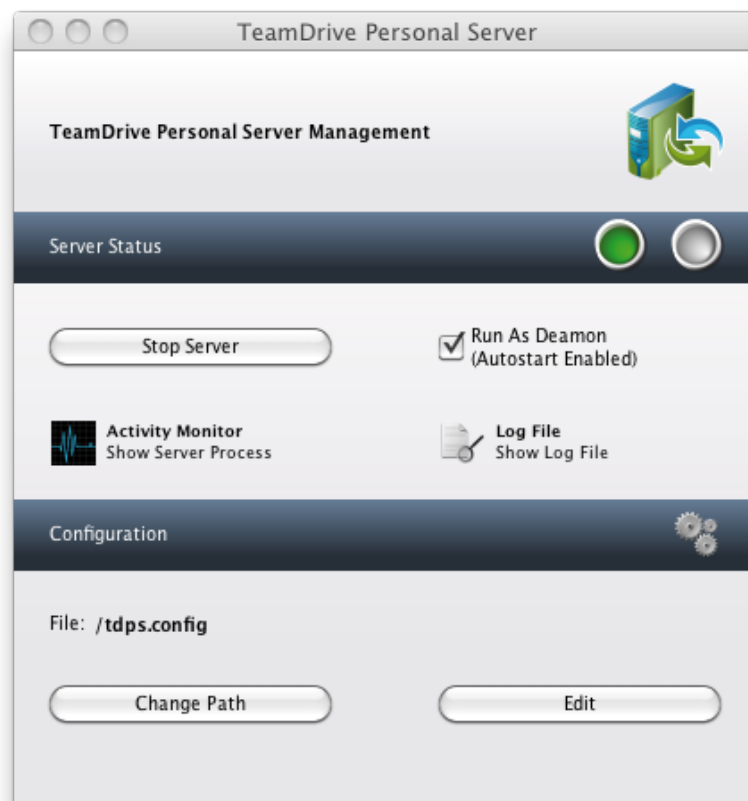
**NOTE:** New version might also have a new version of the documentation.

## 1.4 Configure TeamDrive Personal Server

a) Start TDPS-Controller. It is located in the standard Applications Folder.



b) Choose “Configuration” to get to the preferences mode.



- c) Set up the configuration parameters regarding (1.4.1.)



The image shows a 'Configure Server' dialog box with a 'Page 1' header. It contains several input fields and a checkbox. The 'License Key' field is filled with 'TMDR-010G-5AD1-97CF-0000-0769'. The 'Password' field is filled with 'MeinPasswort', and the 'Show Password' checkbox is checked. The 'Password Hash' field is filled with '1DE0D5E5C412890D4071AF8ECD8C8AD7'. The 'URL/IP' field is filled with '192.168.30.174'. The 'Port' field is filled with '37655'. The 'Repository Path' field is filled with '/Users/td/Library/Applica...DrivePersonalServer/data/'. Below this field is a 'Change Path' button. The 'Repository Size' field is filled with '10', and there is a 'GB' button next to it. At the bottom of the dialog, there are 'Cancel' and 'Save' buttons. A 'Page 2' header is visible at the bottom of the dialog, indicating there are more settings to configure.

**Configure Server**

**Page 1**

License Key: TMDR-010G-5AD1-97CF-0000-0769

Password: MeinPasswort

☒ Show Password

Password Hash: 1DE0D5E5C412890D4071AF8ECD8C8AD7

URL/IP: 192.168.30.174

Port: 37655

Repository Path: /Users/td/Library/Applica...DrivePersonalServer/data/

Change Path

Repository Size: 10 GB

**Page 2**

Cancel Save

All parameters needed to set up the Server are located within "Standard Settings". Confirm your settings by clicking "Save".

### 1.4.1 Configuration Parameters

Most attributes can be used with their default values. The ones crucial for setting up the server are the following.

#### 1.4.1.1 Valid License Key

**license-key= TMDR-010G-5AD1-97CF-0000-0769**

Enter your license key here. You will obtain one when purchasing a Personal Server.

The default value is a unlimited demo key for 10 GB storage.

#### 1.4.1.2 Server Password

Your password as encrypted MD5 Hash String.

To encrypt your password you can use the generator that is included in the package „./tdps-md5pwd“

Default password in this example „MyPassword“

**server-password=48503dfd58720bd5ff35c102065a52d7**

#### 1.4.1.3 Hostname /-address

**server-host=192.168.30.207 (enter IP-Adress or Hostname without HTTP in front)**

The address (hostname or IP) the server responds to. Seen from the viewpoint of the clients.

**NOTE:** 127.0.0.1/localhost can only be used for a local installation (server and client on the same machine). If the client is running on another machine in the local network, this needs to be the servers IP-address. To identify the IP-address, open a terminal window on the server and type „ipconfig /all.

In a global environment, if the server is located behind a router this address needs to be the address the router responds to from a clients point of view and a proper port forwarding needs to be set up. Consider that your Internet Service Provider (ISP) might be giving you a different IP-address each time you connect with to internet.

To be able to provide a static address for the clients, it could be a solution to use a service like DynDNS ([www.dyndns.com](http://www.dyndns.com)). In this case it needs to be the hostame that is registered with DynDNS (e.g. “teamdriveServer.dyndns.net”)

#### 1.4.1.4 Port Number

**server-port=37655**

Port the server listens to.

**NOTE:** The port might needs to be allowed through the firewall.

### 1.4.1.5 Repository Path

**repository-data=**./data

This is where the repository of the server is stored. Default is set to store the repository in the TeamDrive Personal Server Directory. For subsequent displacement of the data directory, stop the server if it is running and move the existing data directory to the desired storage location before setting it as the new repository path.

**NOTE:** Be aware that the repository must be located on a local partition. At this point network devices are not supported.

**ATTENTION:** This directory should be backed up regularly

### 1.4.1.6 Maximum Repository Size

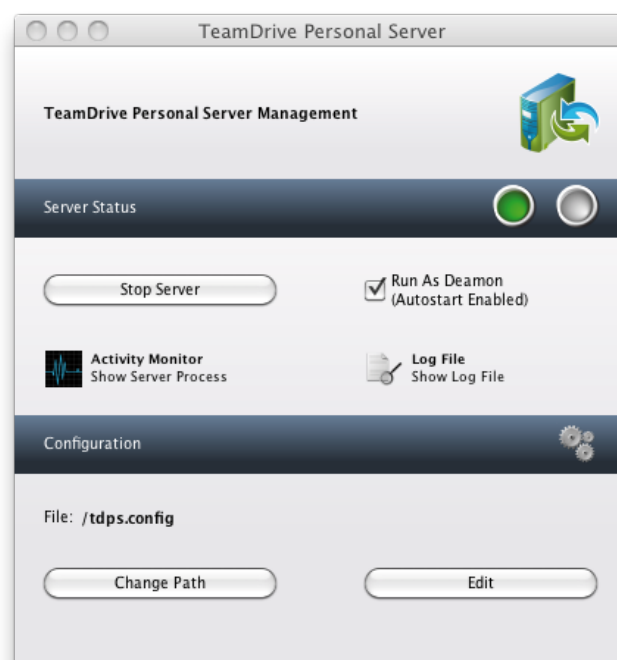
**repository-size=**5GB

The minimum size for a repository is 10MB. If you have a limited storage license the value of repository size may not exceed your maximum storage volume. This would prevent the server from starting. The maximum size for the repository must be specified as a number followed by one of the following unit abbreviations MB, GB or TB.

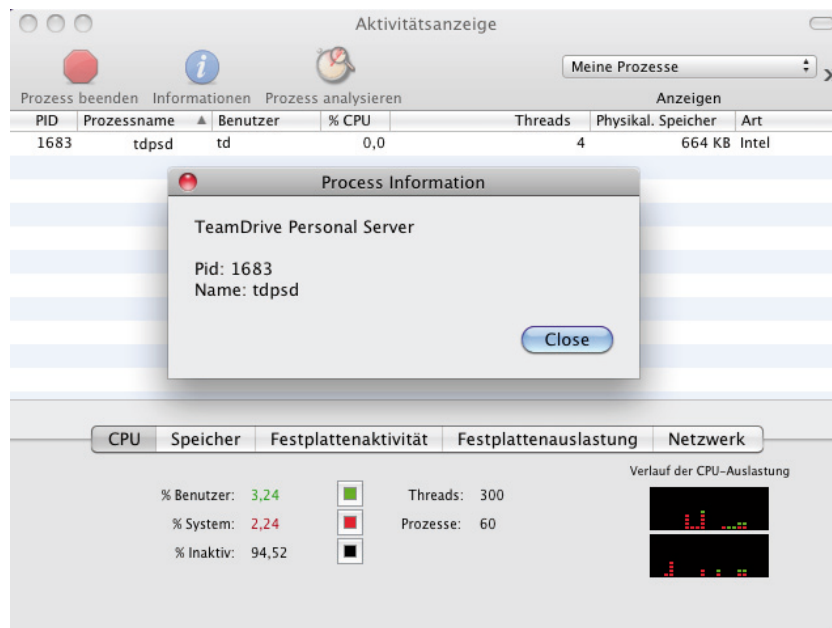
## 1.5 Using the TeamDrive Personal Server

### 1.5.1 Starting the Server

Start the Server by clicking “Start Server”.

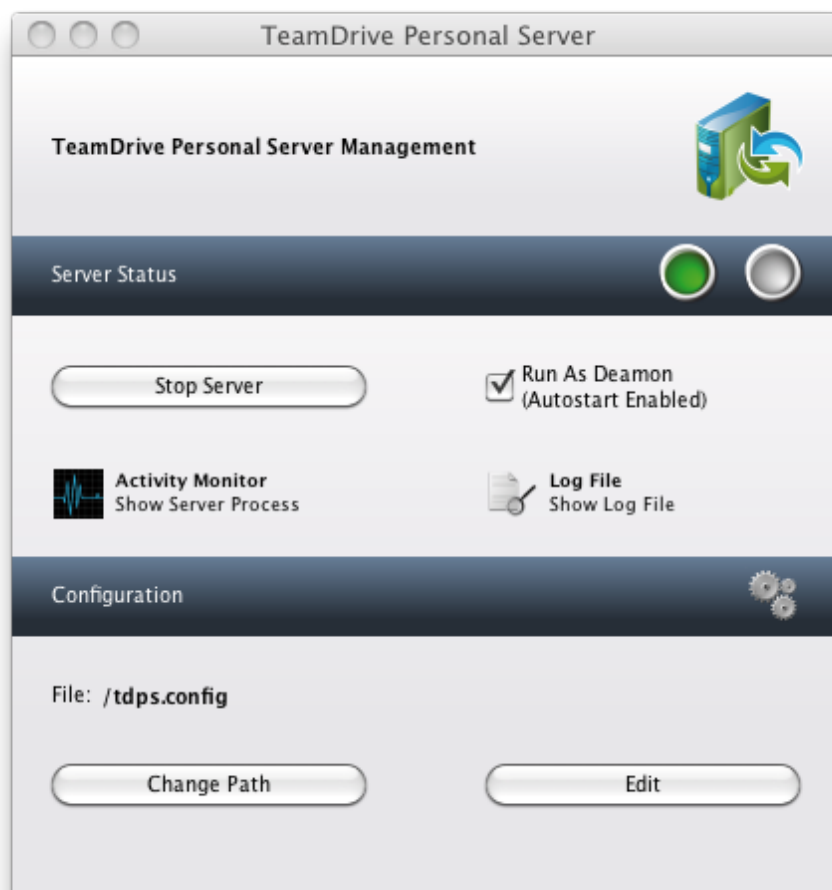


TeamDrive Personal Server is starting now. Success will be signaled by the indicator turning green. In addition to that you can check the status of the server in the Activity Monitor. To do so click “Show Activity Monitor”.



### 1.5.2 Stopping the Server

To stop the server click “Stop Server”.





### 1.5.3 Checking the Server Status

Use the Activity Monitor like mentioned above. If the server doesn't start, the log file might contain clues of what is going wrong. In order to do so, click "Open Log file".

# LINUX

# 1 TeamDrive Personal Server (TDPS)

## 1.1 Structure of the Personal Server

### 1.1.1 Folder Structure

.../tdpsd/

**data/**

**tdpsd**

**stop-tdps**

**watch-tdps**

**tdps-md5pwd**

**tdps.config**

#### 1.1.1.1 **data/**

This is the default directory in which the repository of your server is stored. It contains all the data of all the Spaces of all the users that use this server. You can change the location of the repository by editing the attribute "repository-data" in the configuration file `tdps.config`.

**NOTE:** The Repository of your server must be installed on a local partition. Network partitions are not supported. The server uses file locking.

**ATTENTION:** Please backup this directory frequently. All the data of all the users that use the server is stored in it.

If you are using the default directory, be aware that a new installation or an update could overwrite older files and directories easily.

#### 1.1.1.2 **tdpsd**

The TeamDrive Personal Server Application.

#### 1.1.1.3 **stop-tdps**

File to Stop the Personal Server.

#### 1.1.1.4 **watch-tdps**

Starts the Personal Server and displays its status in the command line window.

#### 1.1.1.5 **tdps-md5pwd**

Encrypts your password to an MD5-Hash-String

### 1.1.1.6 tdps.config

This is where all the settings of your Personal Server are stored. You can edit this file manually with a text editor.

**NOTE:** We advice to regularly backup this file.

## 1.2 Install TeamDrive Personal Server

- a) Unpack the compressed file „**TeamDrivePersonalServerLinux\_xxxx.tar.gz**“.

**„tar -xzf TeamDrivePersonalServerLinux\_xxxx.tar.gz“**

- b) Open a terminal window and go to the directory above the decompressed folder.

- c) In case you are running a 64Bit OS it is possible that the 32Bit libraries, we are using, are not installed by default. We are planning on releasing a 64Bit version. Until then it is possible to load the missing libraries. For Debian-based distributions, such as Ubuntu or Collax you can use the following command:

**„apt-get install libc6-i386 lib32gcc1 lib32z1 lib32stdc++6 ia32-libs“**

- d) Go to the directory tdps by typing: **„cd tdpsd“**

- e) Encrypt your password by typing: **„./tdps-md5pwd MyPassword“**, where **„MyPassword“** would be your chosen password.



```
teamdrive@teamdrive-hp: ~/tdpsd
File Edit View Terminal Help
teamdrive@teamdrive-hp:~$ tar -xzf TeamDrivePersonalServerLinux_10026.tar.gz
tdpsd/mime.types
tdpsd/EULA_en.rtf
tdpsd/EULA_de.rtf
tdpsd/tdpsd
tdpsd/tdps-md5pw
tdpsd/tdps.config
tdpsd/data/disk-usage
tdpsd/watch-tdps
tdpsd/stop-tdps
tdpsd/TeamDrive-Personal-Server-10-2010-EN.pdf
tdpsd/data/space-db
tdpsd/TeamDrive-Personal-Server-10-2010-DE.pdf
teamdrive@teamdrive-hp:~$ cd tdpsd/
teamdrive@teamdrive-hp:~/tdpsd$ ./tdps-md5pw myPassword
DEB1536F480475F7D593219AA1AFD74C
teamdrive@teamdrive-hp:~/tdpsd$
```

## 1.3 Update TeamDrive Personal Server

**ATTENTION:** Don't forget to save your repository and the configuration file, before proceeding with the update. Updating could lead to accidental overwriting of the repository if you are using the same installation directory!

1. Stop the TeamDrive Personal Server.
2. Install new version in a **different** directory than the previous one.
3. Copy the data-folder into the new installation.

**NOTE:** It is possible that the format of the configuration file will change with the new version. That is why we advise you to manually transfer the information.

**NOTE:** Please also check whether there is a newer version of this document. If so, follow the instructions stated there.

## 1.4 Configure TeamDrive Personal Server

Edit the config file: „**tdps.config**“, which is located in the TeamDrive Personal Server directory.

### 1.4.1 Configuration Parameters

Most attributes can be used with their default values. The ones crucial for setting up the server are the following.

#### 1.4.1.1 Valid License Key

**license-key= TMDR-010G-5AD1-97CF-0000-0769**

Enter your license key here. You will obtain one when purchasing a TeamDrive Personal Server.

The default value is a unlimited demo key for 10 GB storage.

#### 1.4.1.2 Server Password

Your password as encrypted MD5 Hash String.

To encrypt your password you can use the generator that is included in the package „**./tdps-md5pwd**“

Default password in this example „**MyPassword**“

**server-password=48503dfd58720bd5ff35c102065a52d7**

### 1.4.1.3 Hostname /-address

**server-host=192.168.30.177** (enter IP-Address or Hostname without HTTP in front)

The address (hostname or IP) the server responds to. Seen from the viewpoint of the clients.

**NOTE:** 127.0.0.1/localhost can only be used for a local installation (server and client on the same machine). If the client is running on another machine in the local network, this needs to be the servers IP-address.

In a global environment, if the server is located behind a router this address needs to be the address the router responds to from a clients point of view and a proper port forwarding needs to be set up. Consider that your Internet Service Provider (ISP) might be giving you a different IP-address each time you connect with to internet.

To be able to provide a static address for the clients, it could be a solution to use a service like DynDNS ([www.dyndns.com](http://www.dyndns.com)). In this case it needs to be the hostame that is registered with DynDNS (e.g. "teamdriveServer.dyndns.net")

### 1.4.1.4 Port Number

**server-port=37655**

Port the server listens to.

**NOTE:** The port might needs to be allowed through the firewall.

### 1.4.1.5 Repository Path

**repository-data=./data**

This is where the repository of the server is stored. For subsequent displacement of the data directory, stop the server if it is running and move the existing data directory to the desired storage location before setting it as the new repository path.

**NOTE:** Be aware that the repository must be located on a local partition. At this point network devices are not supported.

**ATTENTION:** This directory should be backed up regularly

### 1.4.1.6 Maximum Repository Size

#### repository-size=5GB

The minimum size for a repository is 10MB. If you have a limited storage license the value of repository-size may not exceed your maximum storage volume. This would prevent the server from starting. The maximum size for the repository must be specified as a number followed by one of the following unit abbreviations MB, GB or TB.

## 1.5 Using the TeamDrive Personal Server

### 1.5.1 Start the Server

Use „./tdpsd“ to start the server.



```
teamdrive@teamdrive-hp: ~/tdpsd
Datei Bearbeiten Ansicht Terminal Hilfe
teamdrive@teamdrive-hp:~/tdpsd$ ./tdpsd
teamdrive@teamdrive-hp:~/tdpsd$ ./watch-tdps

=====
101201 15:48:13 TeamDrive Personal Server, version 1.0.026 (CSLib 1.0.0(Built Nov 29 2010 17:43:36)), running as "teamdrive"
Command line: ./tdpsd
101201 15:48:13 [Note] License key repository space limit: 10GB
101201 15:48:13 [Note] TeamDrive Personal Server listening on port 37655
█
```

### 1.5.2 Stop the Server

Use „./stop-tdps“ to stop the server.

### 1.5.3 Check Server Status

Starting the server with „watch-tdps“, will show the servers status in the console.

In addition to that the status will always be logged in the log file which is contained in the main directory of the server.

## BACKUP & RESTORE



## 1 Backup and Restore

### 1.1 Backup your Personal Server

All you need to reconstruct your TeamDrive Personal Server in case of a total failure of your hard disk, is the repository and the configuration file. That's why it is inevitable to backup those two components.

We also advice you to backup these components before performing an update.

### 1.2 Backup and Restore

The administrator is responsible for the security of TeamDrive space data stored by TDPS. In the following section we discuss backup and restore procedures for the repository data directory.

#### 1.2.1 Backup Procedure

The simplest way to make a backup is to shutdown TDPS and make a complete copy of the repository data directory (referenced by the repository-data system parameter). You may also wish to make backups of the configuration file (tdps.config), and mime.types if you have modified this file.

Of course, instead of a complete copy rsync can be used to update an existing backup.

#### 1.2.2 Online Backup

If your availability requirements do not allow the server to be shutdown then you can perform an online backup by following this procedure:

- **For each space** (numbered directories) in the repository-data directory, do the following:
  - **Backup the log files** in the *protolog* sub-directory as follows:
    - **Lock** the file called **last.log**, if it exists. (optional software required)
    - **Scan the directory** and determine the highest numbered log file.
    - **Backup** the **last.log** file.
    - **Unlock** the **last.log** file. (optional software required)
    - **Backup all numbered log files** with a number equal to or less than the highest number found in the previous step.
  - **Backup all files** in the *data* sub-directory.
- **Backup all remaining files** in the repository-data directory.

#### 1.2.3 Restore Procedure

Restore can only be done offline. Even if only part of the space repository is restored, TDPS will run the recovery procedure for the entire repository. This is not a problem because the clients can recognise if a space has not changed after restore and will continue with the space as normal.

Follow this procedure to restore the repository-data directory:

- **Shutdown TDPS.**
- **Replace** the repository-data directory with your backup.  
As mentioned above, you may also restore space directories selectively.
- **Start TDPS** with the **--restored** option.

TDPS will recover all spaces in the repository before it allows any client connections.

As an alternative to the `--restored` option, creating a file in the repository-data directory called `restored` will have the same effect. If TDPS is stopped during the recovery process it will automatically resume the recovery process when it starts again.

The `restore-state` contains the information relevant to the restore procedure. If recovery is in progress, and you wish TDPS to start the recovery again from the beginning (for example, because you have restored different data), then remove this file and start TDPS with the `--restored` option again.

During recovery, TDPS scans each space and determines the current log offset. It writes this information to a file called `r-state` in the space. It also increments the global **restore-id**. The `restore-id` is the time of the restore in seconds since 01-01-2010.

#### 1.2.4 TeamDrive Client Space Recovery

TeamDrive client space recovery occurs automatically if necessary. The TeamDrive client software checks the restore state of space if the client's local `restore-id` of a space is not equal to the global `restore-id` on the server. If the client's log offset is beyond the server side offset (after restore), the client will begin local recovery of the space.

The client recovers a space by resetting the local copy of the space to the state of the space at the time of the restore (as it is on the server). Before this is done, a backup copy of the local space data is made.

The user is then responsible to check if there are any local changes to the space in the backup, but not in the space. The user should then apply these changes to the space, for example, by copying over changed files. Some co-ordination with other users of the space may be required to prevent duplicating this procedure.

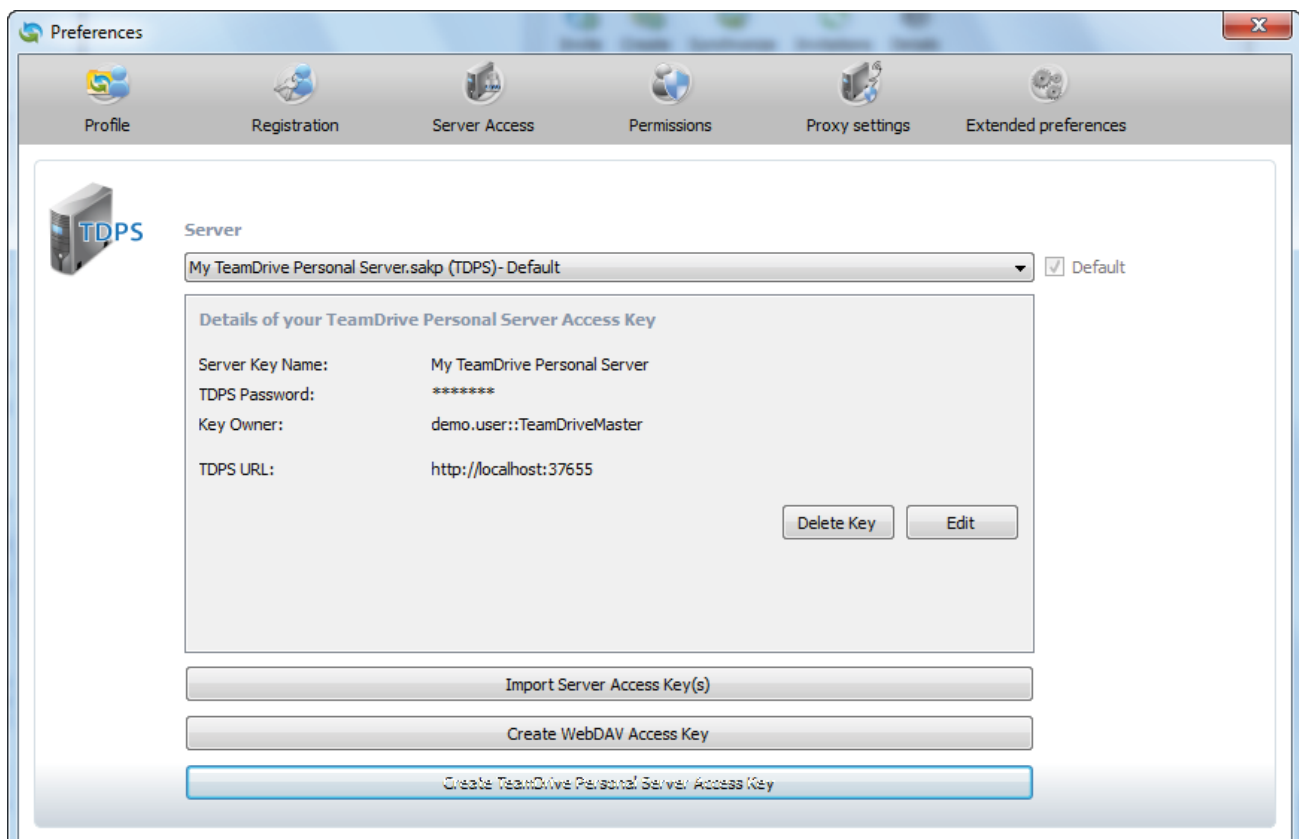
## CONNECT TO TEAMDRIVE CLIENT

## 2 How to connect TDPS to the TeamDrive Client

Any TeamDrive client license from version number 2.3.116 or higher can be used as a client for the Personal Server. The free TeamDrive client carries a local client side storage limit of 2 GB. Users can upgrade the client via the TeamDrive website or by entering a valid client license key to remove the limit.

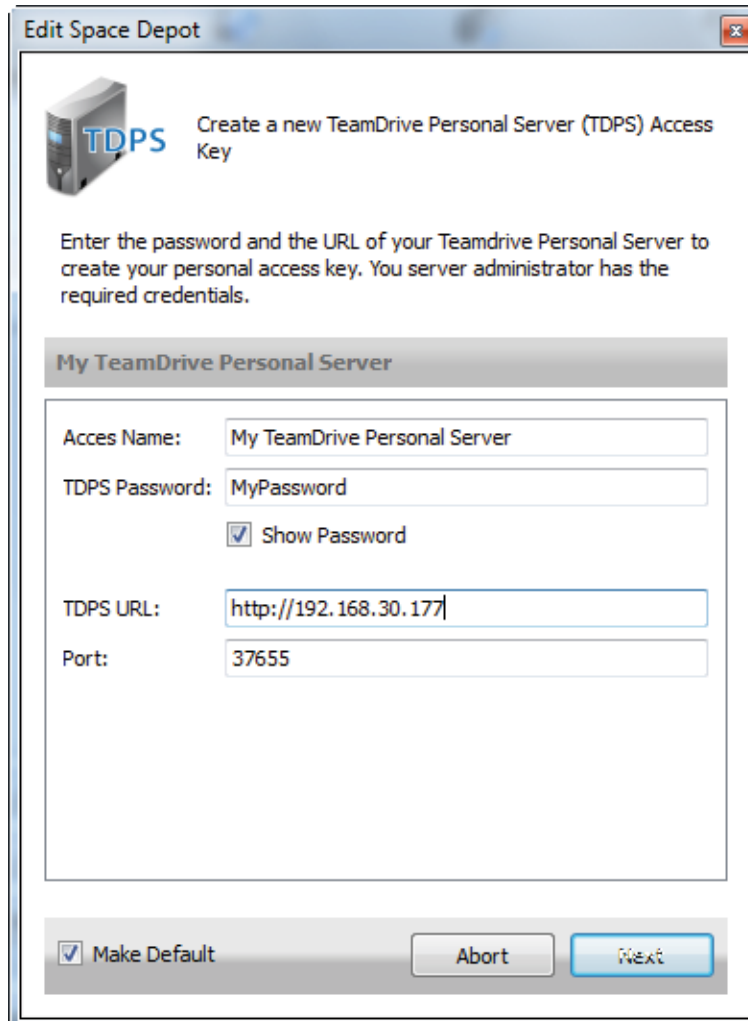
Previous free TeamDrive clients version 2.3.115 or lower need a valid license key or an upgrade to a newer version to run as a client with the Personal Server.

- a) Start TeamDrive Client
- b) Open „Settings“ and go to „Server Access



- c) Choose “Create TDPS Access Key

- d) Fill in the information appropriate to your TDPS server settings and confirm by clicking “Next”.

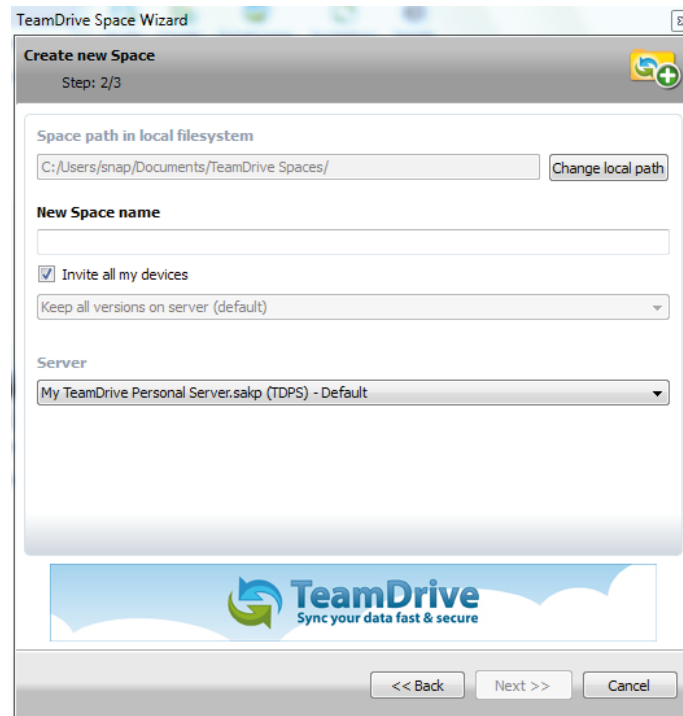


The screenshot shows a window titled "Edit Space Depot" with a sub-header "My TeamDrive Personal Server". The window contains the following fields and controls:

- Access Name:** My TeamDrive Personal Server
- TDPS Password:** MyPassword
- ☒ Show Password
- TDPS URL:** http://192.168.30.177/
- Port:** 37655
- ☒ Make Default
- Buttons:** Abort, Next

- e) Close the settings window.
- f) You can now use your own TeamDrive client with your own TeamDrive Personal Server.

g) Create a new Space by choosing the TDPS out of the server list.



The image shows the 'TeamDrive Space Wizard' dialog box, specifically the 'Create new Space' step (Step: 2/3). The dialog has a title bar with the text 'TeamDrive Space Wizard' and a close button. The main content area is divided into several sections:

- Space path in local filesystem:** A text field containing 'C:/Users/snap/Documents/TeamDrive Spaces/' and a 'Change local path' button.
- New Space name:** An empty text field.
- Invite all my devices:** A checkbox that is checked.
- Keep all versions on server (default):** A dropdown menu with the default option selected.
- Server:** A dropdown menu showing 'My TeamDrive Personal Server.sakp (TDPS) - Default'.

At the bottom of the dialog, there is a 'TeamDrive' logo with the tagline 'Sync your data fast & secure'. Below the logo are three buttons: '<< Back', 'Next >>', and 'Cancel'.

# SECURITY

## 3 Security

The individual client-PC and server should be adequately protected from third-party access. In regards to this, we recommend reading the security tips in this handbook.

**TIP:** On this topic we recommend the literature of the ([www.bsi.bund.de](http://www.bsi.bund.de)).

### 3.1 Encryption

Encrypted transfer of data is TeamDrive's underlying security feature. The encrypted exchange of data is divided into three steps:

1. When a member is invited to a Space, the TeamDrive-software receives the Public Key from the registration-server.
2. In order to access a (shared) Space a "Data Key" (256 bit-AES-Key) is created locally, is encrypted with the member's Public Key, and is then sent to the member via a private communication path.
3. As soon as you leave the client-PC, the Space's data is encrypted using your data-key.

This data is then saved on a relay-server in encrypted form. The encryption means that the Space's data can only be accessed by the Space's members. Because every member has his/her own key, they are authorized and will receive data from the Space. This data is then decrypted using their Data Key and can then be viewed/edited.

### 3.2 Anti-Virus Software

TeamDrive data stored on a computer is guarded by the local antivirus-software. The software tests the relevant file when the TeamDrive Database is accessed. Your current antivirus software should always guard all Spaces in your local file system.

**TIP:** We recommend having your own local Antivirus-software, because every TeamDrive user quickly acquires many Spaces with various different teams. Self-protection is the safest method!



### 3.3 Tips regarding data protection and tips for administrators

TeamDrive's compliance with data-protection regulations is recognized by concerns and institutions.

In order to enable optimal compliance with data-protection regulations, the following advice regarding installation and use of this product should be followed.

The individual client-PC and server should be adequately protected from unauthorized third-party access.

Please be aware that protocol data, as well as data stored in a Space may be subject to legal restrictions. It is the users responsibility to make sure that any such restrictions are followed.

It is the administrators responsibility to ensure that all laws and regulations regarding the proper use and protection of data are observed when using TeamDrive.

In case this product is used without an internal TDPS, contracts with the provider of the server need to be observed. In this there are no differences compared to other IT-products that use an external database. The contractor has to be carefully chosen, and written instructions have to be provided. Further information regarding this can be found, for example, at:

[www.datenschutz.de/privo/partner/projektpartner](http://www.datenschutz.de/privo/partner/projektpartner).

You can also contact us for further help. We can also provide contacts if you wish to set up an external server.

This product includes software developed by the OpenSSL Project for the use in the OpenSSL Toolkit ([www.openssl.org](http://www.openssl.org))