

Abstract

This application note briefly describes how to run the syn1588® PTP Stack on Windows hosts as service that may be automatically started if the PC is booted.

Introduction

On PCs running Windows 7 (32 bit and 64 bit), Windows 10 or Windows Server 2016, it is possible to run the syn1588® PTP Stack as a Windows Service in the background. One needs to download the “Non-Sucking Service Manager”. Make sure you have Administrator privileges because you need them for the installation process.

Use the following instructions to set up the syn1588® PTP Stack as a Windows Service:

1. First download and extract the “Non-Sucking Service Manager” Tool (<https://nssm.cc/download>)
2. Open the command line tool in Windows and enter following command to start the nssm service installer:

```
<path>\nssm.exe install ptp
```

<path> corresponds to the directory containing the executable nssm tool, like “nssm.exe”.

3. Enter the path to the syn1588® PTP Stack as well as additional arguments

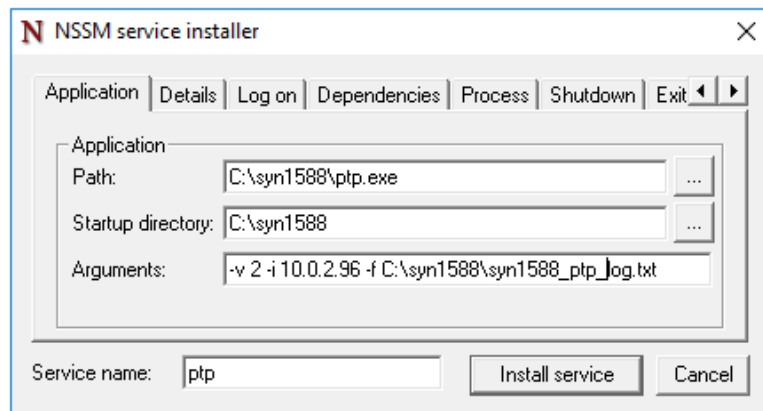


Figure 1: Enter application path and arguments

4. Navigate to the tab “Details” and enter a display name and a description for the service.

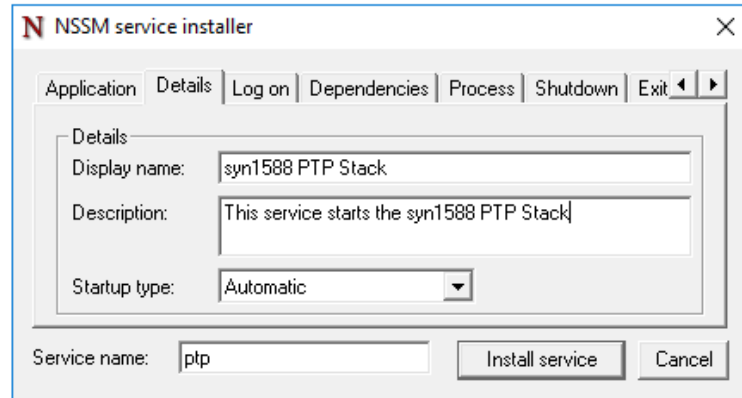


Figure 2: Enter display name and description

5. Click “Install service” to install the syn1588® PTP Stack as windows service.
6. Run the services applet and check if the syn1588® PTP Stack is entered as service.

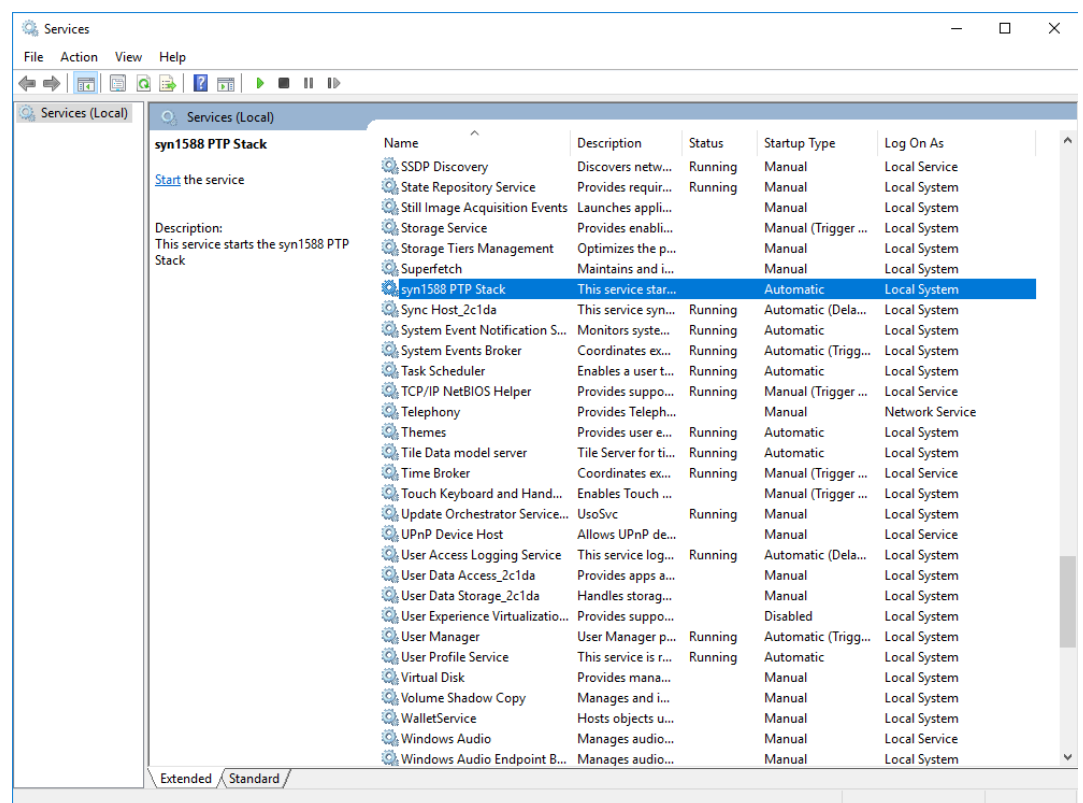


Figure 3: Windows services applet

7. For Windows 10 it is necessary to disable the fast startup mode. For that navigate to Power Options → System Settings and uncheck “Turn on fast startup”

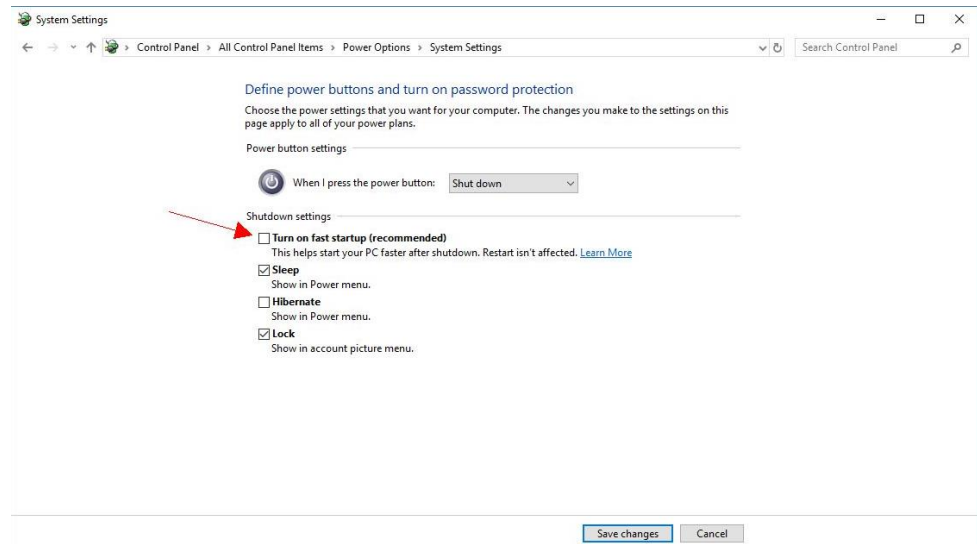


Figure 4: Disable fast startup mode for Windows 10

8. Now the syn1588[®] PTP Stack is configured as Windows Service to run automatically when the system is started.

Access to the PTP Stack Service

If the syn1588[®] PTP Stack is setup as Windows service the shared memory, used to read the status of the PTP Stack or control its operation, is not accessible by default.

If you want to setup an application to be able to interact with the syn1588[®] PTP Stack via the shared memory API (refer also to AN015 for details), you have to set the environment variable “USE_SYN1588_GLOBAL_PREFIX” to the value “1”. Removing the variable or setting it to “0” will disable the access again.

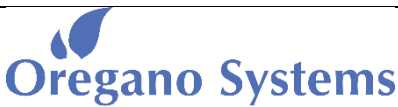
For example, execute in a command shell:

```
>set USE_SYN1588_GLOBAL_PREFIX=1
```

Then execute your application in the same command shell.

This is also necessary when executing syn1588[®] utilities (e.g., eSync or ISync).

An alternative to this configuration is setting up your application or the syn1588[®] utilities as a service themselves.

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