

# ZTSvc a Service for automatic Software Installation

## Installation of the ZTSvc

1. Before you start create the following directory: C:\Windows\zts
2. Now copy ztsvc.exe to C:\Windows\zts
3. ZTSvc includes an interface to communicate with the Service Control Manager (SCM).

Therefore these commands are valid:

Command	Description
ztsvc /install	registers the service in SCM (service starts with system)
ztsvc /start	starts the service manually
ztsvc /stop	stops the service manually
ztsvc /uninstall	unregisters the service in SCM

4. The configuration of ZTSvc resides in the registry:

HKLM\SOFTWARE\Coopware\ZTSvc (for the x86 Sytem)

HKLM\SOFTWARE\WOW6432Node\Coopware\ZTSvc (for the x64 Sytem)

Value	Description
stop	stops the service after the first task
tmsg	time in seconds to display a message (name of the current package installation) to the active windows session (current user) (if 0 no message will be displayed)
tsvc	time in seconds the service will wait for next software install request
uncp	UNC path the service will connect to install software from
ndrv	local drive name the service will use for the UNC path
user	username to connect UNC path
pswd	password for username

REGEDIT4

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Coopware\ZTSvc]
"uncp"="\\\\server\\software"
"ndrv"="S:"
"user"="ztsvc"
"pswd"="password"
```

## Software Installation with ZTSvc

ZTSvc is designed to install software (packges) in the context of the local system automatically. Therefore the software must be prepared with scripts that execute an unattended installation of the software. Most software provides /silent, /s, /q ... switches for that purpose.

In the case of a MSI installation refer to the commandline switches of `msiexec`.

e.g. `msiexec /package xy.msi /passive /norestart`

The process of software installation will be configured with the local file `ztsvc.ini` beside the `ztsvc.exe`. The file has the following format:

```
[Name of the package]
path=Path to the unattended install script of the package
vers=Version String
```

An example:

```
[Adobe Reader]
path=S:\Adobe\Reader\9\Install.cmd
vers=9.4.6
```

Inside of `Install.cmd` the following lines ensure an unattended installation:

```
@echo off
msiexec /package AcroRead.msi TRANSFORMS=AcroRead.mst /passive /norestart
exit %errorlevel%
```

## The Process of Software Installation

The service reads one section in `ztsvc.ini` which is the abstraction of one software package.

Next the service looks for footprints of the package in the registry. If the corresponding parameters are not found (first installation) or the version in the registry does not match (update) the service will execute the script specified with `path`.

The package script (`path`) can be executed from a local or from a network drive. To map the network drive automatically the service will perform a `WNetAddConnection` call with the service parameters `uncp`, `ndrv`, `user`, `pswd`.






Before the script is executed the service will send a Message to the active session for `tmsg` seconds (If `tmsg = 0` no message will be displayed.):



A successful execution of the package script in the context of the service (`local system` is reported to the registry).

Note: If the script exits with an error code the parameter `vers` will not be saved in the registry to allow an installation at the next version check. This can be after `tsvc` seconds or after the next reboot.

If the script exits with the errorlevel `code=1641` or `code=3010` (this indicates a required MSI reboot) the Version `vers` will be saved in the registry. The services accumulates the reboot request and will then (at the end of the software installation process) perform a reboot.

Name	Typ	Daten
 (Standard)	REG_SZ	(Wert nicht festgelegt)
 code	REG_DWORD	0x00000000 (0)
 path	REG_SZ	S:\Adobe\Reader\9\Install.cmd
 time	REG_SZ	2012-01-29 12:41:16
 vers	REG_SZ	9.4.6

## Schema of Service Tasks

