SysPrint AG

State of the Art printing

PSE - Print Settings Enforcer
Installation and Administration Manual

Version: 2.1 - April 2013

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1. Introduction

Print Settings Enforcer - short: **PSE** - is a Windows system service, which allows companies to enforce their printing strategy by resetting any print queue settings (point and print queues) to their default settings defined by the print server administrator.

For example if a company has defined, that by default color printer have to print in monochrome, and duplex has to be used, any user was able to change the default settings for himself. **PSE** makes sure, that the user can still use other settings, but resets the administrator defined default settings when the user leaves the application.

PSE has to be installed on all client PCs and is licensed per PC, based upon the fully qualified domain name (fqdn). It is running as a service under LocalSystem and reserves aprox 24MB of RAM.

1.1. New Features in Version 2.1

Version 2.1 has been enhanced to allow:

<u>User exceptions</u>

If you got some users, which are allowed to use settings different to the ones defined as standard, you can define a windows group and add the users affected, to that group. You can define the AD Server, search path, service user/password in an ini file. Once you start **PSE**, the ini file will be encrypted and can be depoloyed together with the MSI package to your clients.
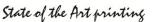
<u>Local queues</u>

Beginning with version 2.1, you can also reset local queues. By default, this feature is disabled, but you can enable it over the ini file described above. Please note, that users with local admin rights are still able to change the printing defaults of the local queues.

1.2. Requirements

PSE is supported on Windows XP, Vista, 7 and 8 for both, 32 and 64 bit platforms. .Net 3.5 or above is required.

2. Installation preparation

If you do not need exceptions for specific users, or the reset of local queues (eg. same as in Version 1.x), you don't need to perform any specific tasks. You can proceed to Step 3.

Just install it by right-clicking on the MSI package file and select "run as administrator". This will install and start the **PSE** service.

If you want to have user exceptions and/or local printer reset, you need to prepare the ini file.

The first time after **PSE** has been installed and the service is started, **PSE** will create the ini file, with empty parameters. (If you delete the ini file, **PSE** will re-create it). The ini File can be found in the directory, where PSE has been installed. Usually this is C:\program files (x86)\Print Settings Enforcer) and has the following content:

```
ldap_server=           - server name or IP address of your ldap / ActiveDirectory server
ldap_username=         - login name of a service account with read-only permissions (eg. yourdomain\yourserviceuser )
ldap_password=         - password for the service account
search_root=           - LDAP search root, eg.  cn=users,dc=yoursubdomain,dc=yourdomain,dc=local
logon_fieldname=       - LDAP field to search the currently logged on users user id  (usually  sAMAccountName )
exception_groupname=   - The name of the windows group with the users, which should be excluded from PSE queue reset
memberof=              - the attribute, where to find the users group assignments - usually  MemberOf
ldap_refresh_hours=23  - The amount of hours between LDAP queries - default is 23 hours  (Service or PC restart will always trigger a new query)
processLocalQueues=no  - if you want PSE to reset local queues too, set to  yes
```

To edit, you need to copy the ini file to your desktop and edit it with notepad or a similar editor. After you setup the parameters according to your needs, copy the file back to the **PSE** program directory, and restart the service.

After you have restarted the service, you can reopen the ini file in the program directory. You will see, that the parameters have been encrypted.

```
ldap_server=MMC4EGn3Bj+yKzPgk7{
ldap_username=MMC4EGn3Bj/0S9DNh
ldap_password=RhNKrYLo2QYxaAD/h
search_root=ZDEKnOmyfHrNj2mVUTI
logon_fieldname=ev2GfTPIvIQOCf2
exception_groupname=dINTWdFcIBu
memberof=GI8ZosSuSH7+cnqxaVXBXv
ldap_refresh_hours=23
procesLocalQueues=no
```

We recommend to do some tests now and verify that **PSE** is resetting your point and print queues to default, after you changed some of the printing parameters (provided that your userid is not in the exception group).

3. Licensing

3.1. Trial License

When you install *PSE* for the first time on a PC, *PSE* will run for 14 days without a license. All features can be used within the trial period.

3.2. Obtaining a license

PSE is licensed based on the amount of PCs where it is installed. The license key is based on the fully qualified domain name of your company network. (eg. mycompany.local)

Licenses can be ordered directly over http://www.printertools.ch/shop

Alternatively you can contact us by phone or email. Please use the contact details visible on the footer of this page.

4. Installation / Deployment

You can use you own software deployment tools to deploy *PSE*, since it comes as a MSI package.

You have to make sure, that you deploy the license file into the program folder, where you are going to install *PSE*. If you want to use a customized configuration, make sure, that you also deploy the encrypted ini file created in step 2 of this manual.

5. Troubleshooting

PSM does not have a specific log file. PSE writes directly to the system application log. Please consult the application log file first, if you experience any problems.

Support contact: mailto:support@sysprint.ch

We may need to access your PC. Remote access will be made by TeamViewer. Please make sure, that your network allows TeamViewer. If you have any other possibilities for remote support, let us know.

6. Things to know about *PSE*

How is the queue reset performed?

PSE is watching specific keys inside the registry of the PCs. If *PSE* detects a change to certain keys, they will be switched back to default.

Which types of print queues are reset by *PSE*?

By default, only point and print queues are reset. This means queues defined on print servers, mapped on client PCs. Reset means, that the settings will change back to what the print server administrator defined under advanced > printing defaults on the server queue.

Optionally (if specified in the ini file) *PSE* can also reset local print queues. Reset in this case means, that the setting will change back to the ones defined under advanced > printing defaults. If the local pc user has administration rights, *PSE* cannot prevent changes to the printing defaults.

How many resources are used by *PSE*?

PSE requires up to 1MB harddisk storage. Memory usage (private) is aprox 14MB, reserved: 24MB. The CPU consumption is very low, we've never seen it using over 2%, and even this is a peak happening for milliseconds only.

What are the .cache files inside the program directory of *PSE*?

If you are using the group exception feature and exclude some users by putting them in a windows exception group, and you are losing communication with your LDAP server (for example because you are using a laptop) the cache files are used to retrieve the last queried status, to find out if the user is excepted or not.

Each user who has logged in to a PC will automatically generate a spearate cache file. The cache files are encrypted.

Logging

PSE does not have a separate log file. *PSE* writes to the application event log.

De-installation

You can remove *PSE* like any other windows program, over "add/remove programs". This will remove the service and any other files in the *PSE* program directory (including the license, ini and cache files).