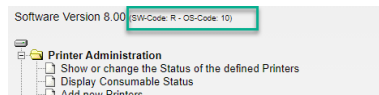# SysPrint AG

State of the Art printing

PSM Release Notes

Please read before you start

Version 8 is a major release, please read carefully before you upgrade.!

As time is moving forward, we have to say goodbye to some very old editions of PSM. The so called "very old" editions where all Linux base, but built on an OS Version which is definitely outdated today, and on PHP versions, which do not support new methods, and are considered to be insecure.
Therefore, Version 8 will support only the editions noted below. If you are running on a recent Version 7, you will see the editions noted on the top of the main menu.

Supported PSM Editions:

```
Software Version 8.00 (SW-Code: R - OS-Code: 10)

Printer Administration
    Show or change the Status of the defined Printers
    Display Consumable Status
    Add new Printers
```

SW-Code – OS Code	Description		Supported
W – W	PSM on Windows		Yes
R – 10	Raspberry Appliance with Raspbian OS		Yes
B – 3	Virtual Server with Ubuntu 14.04 64 Bit		Yes
A – 3	Rack Appliance with Ubuntu 14.04 64 Bit		Yes
S – 2	Rack Appliance with Ubuntu 12.04 64 Bit		Yes **
U – 2	Virtual Server with Ubuntu 12.04 64 Bit		Yes **
L – 2	PSM Lite Appliance (yellow) with Ubuntu 12.04 32 Bit		No
L – 1	PSM Lite Appliance (yellow) with Ubuntu 9.10 32 Bit		No
O – 0	Other (older) Linux appliances with SUSE OS		No

** Appliances built on Ubuntu 12.04 are using PHP Version 5.2. Not all functions will be available, such as SNMP V3, which is not supported there. We do also recommend to move away from that and change to the new Windows Version.
We are not sure yet, if we will build another hardware based Linux appliance yet, since there was no more demand for it over the past 2 years. If there is enough demand for it, we could build another virtual Linux image with a recent OS and PHP Version. Please let us know, it there is a need for that.

Update requirements:

The requirement for an upgrade to version 8 is, that the latest version 7 build is currently installed. The pre requirements (and update steps) are as follows:
- Versions below 6.24 : install 6.24 first
- Version between 6.24 and 7.01: install 7.02 first
- Versions between 7.02 and 7.20: install 7.21 first
- == 7.21 is the version which must be installed, before you can update to version 8.

Changes concerning the backup files

In Version 8 we have changed the backups to no longer contain the program files to make the backup files smaller. This means only the database backup and the data files are stored inside a backup archive. Version 7 backups < > Version 8 backups are NOT compatible. The Version 8 backups always contain "…v8.tar" on Linux based versions or "…v8.zip" on Windows based versions.
DO NOT rename them and try to restore on a version it was not built for. (Restoring a non V8 Backup in V8 or restoring a V8 backup on a V7 PSM would render your installation unusable!

V8 Backups can only be restored on the same PSM Version where they were created. If you need to restore because of a server change or a crash, you will need to install the same version of PSM before restoring the backup. If you don't remember the backup version, you can open the archive file and look for the file "hwedition.txt". This will contain the needed information.

"Umlaut" considerations (öäü/éàè)

Not all PSM editions (and releases) were setup using the UTF8 Character Set. Version 8 is now using it, and it will change the database table to UTF8, if not already set. Depending on you previous version (and browser used) it might be, that Umlaut characters will be displayed incorrectly. In this case you will need to correct this manually one time. After it has been corrected, it will work correctly on all browsers (Tested: IE, Chrome, Edge, Firefox, Safari).

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Windows full update (upgrade)

The current "PSM on Windows" installations are all built on MySQL Server 5.5 and PHP 5.6. These packages are recognised as "outdated" by quite a view software inventory programs or even security / virus scanners. Many customers have asked for a new version. So if you have to (or want to) upgrade the complete packages, a new built based on MySQL Server 8 and PHP 7.3 is available.

The "PSM_for_Windows_Installation-Guide_Version-8.00.pdf" manual describes the process of upgrading existing windows servers or migrating to a new windows server in chapter 8. Please follow the steps there for a successful migration / upgrade.

Please note that if you are upgrading (full update) your windows installation (which means also that the MySQL Server is upgraded), you will loose the MySQL Users, if you have defined any. You will need to re-create the MySQL Users again over the administration section of PSM after the upgrade.

Reporting Section (graphical reports)

Since version 8 has changes in the MySQL area, you will need a new reporting package, if you are using the graphical reports at all (optional). On the new windows installation, the graphical reports are not even installed by default.
You can download the new reporting package over the download pages, or use the links here:
- Linux based PSM reporting package download
- Windows based PSM reporting package download

To install the new reporting package, use the administrative section of PSM after you have updated to Version 8 of PSM.

PSM Software Version 8.05 – 30th of December 2021

Enhancement: Additional fields

The database has been enhanced, to support up to 5 more additional fields to enter information about a printer.
The fields can be enabled in the administration section.

Field names

You can give the fields an individual name. If you are using PSM in a multi-language environment, we recommend that you name it, so all users can understand it. If the field name is not specified, it will be disabled automatically. In the table "PRINTERS", these fields will be present as "CustomField01 – CustomField05".

Field usage

You can limit the usage of the additional fields to certain sections of PSM:

- ***Show in printers list***: (this should be the minimum setting enabled if you intend to use this feature). Enabling this field, will show the field in the consumables- and printer views as well as in the printer detail view.

- ***Show in import/export***: If enabled, this field becomes available in all import / export programs, as well as in the series / mass mutations. You should carefully consider the consequences:
    - o If enabled, all export files will contain this columns, after the location column.
    - o If enabled, and you are using imports: if the import files do not contain these, the import will fail, as the number of column will expect the additional columns. This can be critical, if you are using automatic imports.
    - o If you want to enable the additional columns in the import/export programs, we recommend to first enable it, and then do an export. This way you will get a sample of your future import files have to look like.

- ***Show in order mails***: If enabled, the email body will contain the additional fields below the "contact" line. If you have systems which are processing the email order files automatically, the processing could fail, if the process is not taking care of these additional lines.

- ***Show in alerts and error messages***: If enabled, the email body will contain the additional fields below the "contact" line. If you have systems which are processing the alerts or error messages automatically, the processing could fail, if the process is not taking care of these additional lines.

- ***Show in reports***: If enabled, the additional columns will be shown right of the contact column.

Bug Fix:

The program used by Sysprint to setup MPS customer did not correctly create the Groups, if the Group name contained national characters, such as öäü.

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PSM Software Version 8.04 – 8th of September 2021

Enhancement: Stock Administation, automatic XML Orders by FTP/SFTP

The optional "stock feature" has been enhanced. Instead of automatic email ordering, the orders can be routed to the "stock administration" (Lagerverwaltung in German). In the past, you have been able to set minimum stock quantities fpr every part number. When a printer needed something, it was routed to the stock administration. From there the stock administrator was able to manually generate a list of items needed in excel format. The only use cases for this feature was for one customer who no longer needs it.

A new request asked for the same functionality, but with automatic ordering by FTP or SFTP. This means, that the parts needed from specific printers are still routed to the stock administration, but instead of manually dealing with the needed parts, the order should be automatically sent to a dealer, who processes the order. The only manual step is to add entries in the stock administration, when the parts have been shipped.

A settings screen has been added to allow the setup of this feature:

Please note, that this feature is only visible and available if you have licensed it. Please contact us, if you would like to have more details about this.

Bug Fix:

Old style automatic reports (monthly CSV reports) were not sent in all cases. There was a bug introduced in Version 8.0, this is fixed now.

PSM Software Version 8.03 – 1st of September 2021

Development Release only

This release was made for debugging purposes only and is not an official release.

PSM Software Version 8.02 – 14ᵗʰ of June 2021

Bug-Fix: AD/LDAP Login: some users not auto-created

Depending on the AD group membership, which is the base for PSM to assign the appropriate rights, PSM was not able to create the user. This has been corrected. The bug was depending on the underlaying MySQL Version, only Version 8 was affected. Therefore this bug was only present on new Windows installation based on PHP 7.3 and MySQL V 8.

PSM Software Version 8.01 – 12ᵗʰ of May 2021

Bug-Fix: Counter tables not written in some cases

This error has been implemented with PSM Version 8.
Newer implementation of MySQL do not allow empty values to be written to fields defined as INT (integer). In earlier versions, the default of 0 (zero) was taken, while newer implementation will throw an error, which causes the table which holds the daily counters, will not be updated. This update forces zero for empty fields / counters to prevent this behaviour. We recommend to update from version 8.

Bug-Fix: " (Quotation mark) Character for some values queried by SNMP

This error has been implemented with PSM Version 8.
Depending on the OS level we have seen that some values retrieved by SNMP (such as the printer name or the printer model name) was surrounded by quotation marks. PSM will now check for quotation marks returned by the SNMP GET command, and will eliminate these characters.

If you use PSM Version 8.00 and already have printer model names surrounded by quotation marks, we recommend to edit the printer profile and rename it. Also we recommend to not use quotation marks for the printer name.

PSM Software Version 8.00 – 28th of April 2021

New: SNMP V3 (Read) Support

SNMP V3 is now supported. There are different levels, where you can enable V3:

- At device level: recommended if you only have a very view device which should work with SNMP V3 instead of SNMP V2.
- At Group1 level: recommended if you have a considerable number of devices, which should use V3 instead of V2, or if you got groups of devices with different credentials.
- At Global Level: recommended if you want to use V3 for all devices and they have the same credentials.

Here is an example on how to set SNMPv3 on global level, and how it is corresponding to a HP device setup.

Please note, that you can also enable "Fallback". If enabled, PSM will try to establish a V3 connection first. If this does not succeed, PSM will try V2. If V2 then works, PSM will only try V3 again on the next day (to prevent lockouts because of too many unsuccessful attempts.). If you manually update the device status over the browser, it will immediately retry V3.

Considerations for using SNMP V3

There are many discussions going on concerning the use of SNMPv3. We do NOT recommend v3 for most customers.

The reasons why we do not recommend it:
- Half as fast and double the amount of traffic compared to SNMPv2. Since V3 is encrypted, the amount of data is increased. Also the authentication is more complex. V2 is only sending a plain text password (community name).
- There is an administrative effort to setup V3 on the devices which needs to be done.
- If you switch off SNMPv2 on the devices, you can no longer get the status of a devices on windows print servers or clients. This means that if the device has (for example) no more paper, you will not see this in the queue status. Microsoft is still not supporting SNMPv3 to query the printer status.

We recommend to stay with SNMPv2. Maybe you can change the community name away from "public" to something else, to prevent any SNMP capable program to query your devices without any effort. The only information which we would consider as "maybe sensitive" are information such as the names of last print jobs for example.

If you still want to use SNMPv3, be informed, that we have taken a lot of effort to prevent a huge increase in data traffic. We group the queries as much as possible to decrease the amount of authentications needed. Still – you should calculate the times used to query all printers *2 compared to SNMPv2.

Code cleanup and use MySQLi calls instead of MySQL calls

A lot of code cleanup has been performed in version 8. Since it is too technical and people who are not familiar with programming would not understand it, we do not publish the technical details here. If someone wants to know it exactly, we can deliver the information upon request.

Special thanks also goes to Dominik Blunk. He is one of the PSM users, but also programmer, and did quite a lot of the work with the code cleanup.

PSM Software Version 6.xx and 7.xx versions

Older versions have been moved to "PSM Release Notes Version 7 and older".

PSM Software Version 5.xx and older versions

Older versions have been moved to "PSM Release Notes Version 5 and older".