SysPrint AG
State of the Art printing

CPS-Click2Map Release Notes

Gaswerkstrasse 6
CH-8952 Schlieren
Web: www.sysprint.ch

Tel. 044 730 23 45
Fax 044 730 18 35
Mail: info@sysprint.ch

CPS Software Version 6.2 – 3rd of October 2019

Enhancement: Queue pausing / resuming

Print queues can be paused from within the single queue creation menu. Please note, that CPS Click2Map will not check on the server if a queue has been paused or resumed manually by somebody else. It only sends the commands to the servers and verifies its execution.

CPS Software Version 6.1 – 31st of January 2019

Enhancement: Cluster support (Server 2012 and above)

Since Server 2012, the print clustering is no longer what it was before.
Microsoft explains it as "High-availability clusters (also known as HA clusters or fail-over clusters) are groups of computers that support server applications that can be reliably utilized with a minimum amount of down-time."
So it is basically a group of servers running the print server role. To the end user these servers are seen with one single name.

In CPS Click2Map you will have to add the printers using the cluster name as server name. In the queue administration back-end you have an additional menu item called "configure cluster servers". There you specify the cluster server name and all of the virtual server names which belong to the cluster. When you generate a queue, CPS Click2Map will generate the queue on all servers specified by you. A queue will only be marked with "successful generation" when the generation succeeded on all specified servers.

CPS Software Version 6.0 – 7th of January 2019

Enhancement: Digital signing of VBScripts

New security policies implemented by companies – especially when they are developing Windows 10 clients – sometimes prevent VBScripts from being executed, if they are not digitally signed.
CPS Click2Map generates VBScripts for the point&print queues on servers, in order for the user to access and map them to their workstations and optionally set the mapped queue as default printer. Also for the generation of local queues, VBScripts are required to set a locally generated queue as default. These scripts are generated by Click2Map "on the fly". Depending on what the user is doing, the scripts are generated right before the user accesses them.
This made it necessary to implement a dynamic script signing process inside CPS Click2Map.

Requirements:

- You will need to have digital certificate (Type: "Code Signing"). You don't need to buy one, you can ask your local security administrator to generate such a certificate for you.
- The code signing certificate needs to be installed in the local machine certificate store of the server(s) running CPS Click2Map.
- Both IIS directories of Click2Map must run with accounts who have local admin rights, in order to be able to do the signing of the VBScripts.

CPS Software Version 5.7 – 23rd of August 2018

Change: Multiple Queues Generation

The amount of data allowed by posting a web form is limited. We experienced cases where not all filtered queues where shown on the multiple queue generation screen, and/or only the first 200 of them were taken for generation.
We cannot change the limit, however we have changed the page to reduce the amount of data sent by the POST request. Also we have included a *** End of list *** string, displayed at the end of the page, so you can be sure all data is shown. Please note, that will still not be possible to generate more than 500 queues in one shot.

CPS Software Version 5.6 – 27th of January 2018

Bug-Fix: It was possible to delete a printer model / profile with existing queues

The administration back end allowed the deletion of profiles which still had queues defined. This fix checks if there are queues using the profile, before allowing to delete it.

Enhancement: printer models/profiles can be exported and imported

In the administration back end you will find a new menu item called "Import / Export printer models". This allows to export existing profiles including the associated configuration file and printer image file if present to a zip file.
The zip file can be imported in the same or another instance of CPS. You can decide if you want to overwrite existing profiles. If you allow overwrite, CPS will check and compare the driver name specified and the configuration file. If CPS detects a mismatch, it will mark all queues already assigned to the profile for re-generation.

This feature is especially useful if you maintain more than one CPS installation, or if you are using one CPS in a test environment to test and generate new profiles and then transfer them to the production environment.

Enhancement: printer model/profile change

In the queue-administration back end you will find a new menu item called "Change printer models".
This will allow you to search for queues generated with a specific printer model/profile and assign another model/profile to them.

Changes will be made only in the database. The queues changed will be marked for re-generation, so you simply need to re-generate those queues whenever you want.

This feature is especially useful in the following situations:

- Driver / configuration updates: When you need to deploy the queues using a new driver or configuration you can add another printer model/profile with another configuration file name. This allows to selectively choose the queues which you plan to change to the new driver / configuration without forcing you to generate all queues at the same time
- Fleet changes: When you are going to replace printers 1:1 and you want to keep the existing host name /ip address and queue name for the new printer, you simply add a new model profile. All printers which have been replaced can be switched to the new model / profile here.

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CPS Software Version 5.5 – 12th of September 2017

Bug-Fix: Local queue not deleted in CPS when local queue was not present on the workstation

When a local queue which was indicated as connected, was deleted outside CPS Click2Map, the user was unable to disconnect / delete it from within the CPS Click2Map GUI. This has been fixed.

Bug Fix: National special characters displayed incorrectly in chrome, edge or firefox browsers

German, French and Italian language strings were incorrectly displayed in chrome, edge or firefox browsers. The headers have been corrected to select the correct language in the browser.

Enhancement: "Country" can now be renamed and "Street" can now be disabled

If less location fields are needed, the "street" level fields can now be disabled. Also the "Country" field can be renamed. This allows for a less complicated location management. This particular request was made by a hospital, who wanted to have the hospital name instead of the country, and only needed the building name, which was placed on "City" level, while the "Street" has been disabled completely. The above can be configured in the administration > language section.

Enhancement: The "text-search" field on the front end GUI can now be renamed

The "text-search" field can now be renamed. This is useful if users now their printer name or inventory number. In this case you could rename it to "Inventory number". The above can be configured in the administration > language section.

Enhancement: "Badge print enabled" icon can now be set on printer profile and/or print queue level

Many companies don't have equipped every single printer or MFP device with badge functionality / badge reader.
New: on the front-end GUI a "key" icon will be displayed beside the printer model name, if the device is badge-print enabled. The printer model configuration GUI also allows for another color to be displayed, when the device is bade-print enabled. The following rules apply in the following priority (lowest priority first):

- "FollowMe" is enabled in the profile
    - o All print queues assigned to the printer model will display the key-icon (and the different color, if configured in the printer model profile).
    - o On queue level, individual devices can be excluded by selecting "Force-disable badge"

- "FollowMe" is not enabled in the profile
    - o On queue level, individual devices can be excluded by selecting "Force-enable badge". These queues will display the key-icon (and the different color, if configured in the printer model profile).

Example profile:

Example queue entry:

Example front-end GUI display with key:

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CPS Software Version 5.3 – 1st of June 2017

Enhancement: Migration (Merge) from multiple instances of CPS Click2Map to a single instance

In the Administration menu, you will find an additional Menu called "Migration from/to another CPS Click2Map". This allows to backup printer and profile data from one CPS and merge it to another instance. If you have multiple CPS to migrate, please make sure, that you increment the backup counter (internal ID's) by at least 100'000 for each source instance to avoid overwriting entries of the target CPS.

CPS Software Version 5.2 – 6th of February 2017

Enhancement: Enhanced checking for the "publish in ActiveDirectory" setting

We've been informed, that the "publish in active directory" setting does not always work. There's not much we can do about it, since this is a windows problem. We already checked the return code of this command when we executed it using the WMI interface.

However, we have changed the execution and now also use the printui on the target server to set this setting.
Also, when "publish in Active Directory" has been activated in the CPS Click2Map Queue Administration administrative settings, the execution of this setting will now be double checked. We now query the setting after we setup the queue or reconfigure the queue. If the returned setting does not match the one we set, we will mark the queue as failed in order for you to see if there was a problem.

Enhancement: Location / Contact can now be changed using the "reconfigure" command

If there was a change on the location / contact field of a queue, the whole queue had to be re-created in order to change it on the target print server. This has now changed. The change of these fields can now be applied by just using the reconfigure command, instead of needing to re-create the whole queue.

Enhancement: Windows driver version now visible when creating queues

During the generation or reconfiguration of a queue the windows driver and version are now visible.
(Please note, that the windows driver is not equal to the printer driver. For example when using the HP PCL driver, the windows driver is the unidrv.dll).

Enhancement: Windows driver version now visible in the configuration file generator

The printer driver and the windows driver version is now visible on the configuration file generator.
(Please note, that the windows driver is not equal to the printer driver. For example when using the HP PCL driver, the windows driver is the unidrv.dll).

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The windows driver version is there for information purpose. It is read from the source server, when a configuration file is generated. However, these fields remain empty for configuration files created before this update has been applied, and the configuration files will still function.

The reason why we have implemented this is, that the windows driver is also affecting printing (not only the printer driver alone). The printer driver and windows driver version used when creating a configuration file should match the ones on the target server. Using a configuration file created with another version than the one present on the target server may cause problems.

Please also note, that the windows driver versions used in server 2016 / windows 10 may be different to the ones on earlier operating systems. From our experience, it works fine when you create the configuration file on the EARLIER operating system and use it on server 2016 / windows 10. The other way around it may cause problems.

Note: It is a possibility, to further enhance CPS Click2Map and let it check and compare the version of the windows driver used to create the configuration file and the version of the target file and disallow the queue creation, if the versions do not match. Please let us know if this is an issue for you and if such an enhancement would make sense for you.

Feedback is always welcome. Please write it to support@sysprint.ch , subject: CPS Click2Map enhancement. Thanks.

Enhancement: Support for Windows Server 2016 / Windows 10

CPS Click2Map now officially supports the creation of print queues on windows server 2016 and windows 10 operating systems. However it does not yet support installation on the IIS server of server 2016. We will release another installer version to support installation on a server 2016 in near future.

CPS Software Version 5.1 – 10ᵗʰ of September 2016

Enhancement: Support for backup server

Backup servers are now supported. You can choose an alternative server for each original server. If specified, each queue will be created twice, once on the original server and once on the backup server. This eliminates the need to mirror your original server manually, if you have a backup server. The backup server name can be specified over the the "Queue Administration > Administration section".

Original Server	Backup Server		
		💾	
sysprint-vmsrv	test-srv2012-2	💾	✖

HINT: If you plan to use a backup / failover server, we recommend to specify a DNS Name for both servers and use the DNS name also in CPS Click2Map as the server name for the queues. In a disaster situation, you then just need to swap the server names into your DNS configuration.

CPS Software Version 5.0 – 5ft of August 2015

IMPORTANT: Administrative credentials need to be set again after updating!

Due to an improvement in storing the credentials for the administrative tasks, you need to immediately store the passwords for the queue generation again. You can do this on the queue administration's administration menu. Please don't forget to do this or else queue generation will no longer work.

Enhancement: Clients can now delete local (Peer2Peer) queues created over CPS

When a client created (by mistake) a wrong local queue over CPS, he did not have the ability to delete the queue again. During the update to version 5.0, a table containing all the local queues created on client PC's will be created by extracting information from the log file. The table will directly be used if new local queues are created.

Impact for the users: If a queue was created over CPS, the user will get a disconnect button instead of a connect button, allowing him to delete the local queue.

Enhancement: Queue admin can now see local (Peer2Peer) queues created by clients.

The queue admin menu has been enhanced by an additional item called "Workstation (Local) Print Queue Management" This menu allows the administrator to see all the queues created by users on their workstations.
Additionally the administrator can:

- Delete queues on workstations (if the workstation is powered on and connected to the domain)
- Detect configuration differences: If there are changes on the configuration (model template (.cfg) file or other changes such as comment, location, asset number, ip address ..)
    - If differences are detected compared to the time when the queue was created, the differences will be highlighted in yellow. You can move the mouse over the highlighted field to see more details. The administrator has the possibility to "push" out the new configuration to the workstation print queue (if the workstation is powered on and connected to the domain)

Bug Fix: Import definitions "disable Bidi" and "disable SNMP" were not possible to save

When import definition were made, the changes could not be saved if the above mentioned 2 fields were empty. This has been corrected. It is now possible to save the definitions again, when the 2 fields are empty.

Bug Fix: First new printer for a new location was not imported

When the import file contained a new printer- AND a new location not previously present in CPS, the location was created, but the printer was not added to CPS. This has been corrected.

CPS Software Version 4.9 – 6th of May 2015

Bug Fix: Update from very old CPS Version < 4.0 did not work

Updating from very old CPS Versions below Version 4 did not work correctly.

CPS Software Version 4.8 – 24rd of March 2015

Bug Fix: "Publish in Active Directory" setting does not always work

The "publish in active directory" did not always work. The was believed to be fixed in 4.7. However when the server is too slow, the command which sets the AD setting worked before the configure queue command has ended. We changed the programs, so that the AD Setting will be made using printUI instead of WMI. This makes sure, that the correct configuration / setting order takes place.

CPS Software Version 4.7 – 22nd of March 2015

Enhancement: Default display all printers for a selected "City" (Front end only)

Upon customer request, the users should have a full list of all printers by default, rather to refine their selections. This makes sense for customers who made use of the new feature introduced in Version 4.6, where the titles can be changed from "city, street, floor" to something else. One example is, if somebody is using "building codes" for example:

In this case it makes sense to display all printers, when the building code is selected:

This feature is disabled by default. It can be enabled over the administration back end:

Bug Fix: "publish in ActiveDirectory" and "Location / Comment" set wrong

If a configuration template is created from a queue which published in AD at the time when the configuration template was created, the queues generated using this template also had AD publishing on, and were using the comment and location names from the template queue. The reason for this is, that the printui command used will set this while the configuration is applied to the new queue.
In Version 4.7 this has been changed: the AD settings, location and comment will be re-applied after the queue configuration has been sent, to make sure that the settings are correct.

CPS Software Version 4.6 – 24th of February 2015

Enhancement: Language Strings for front End also used in Back End (English only!)

The language strings introduced in Version 4.5 are now also used in the back end and queue administration.

Bug Fix (Back End / Queue Admin): Queues and Server names upper/lower case

If a queuename or server name was specified in lower case or mixed case, it was not found when the queue name and/or server name search fields were used. this has been corrected.

Bug Fix (pre Version 4 manual installations only)

Printers could not be added. The problem started, when an old per-Version 4 manual installation was updated to 4.2 or higher. The default database inserts have now be changed for "disable BiDi" and "disable SNMP" to always contain "0" or "1" instead of "0" or empty value.

CPS Software Version 4.5 – 12th of February 2015

Enhancement: Language Strings for Front End

Some of the titles displayed on the front end GUI of CPS can be modified in the back end administration section. Some customers are not using the "City / Street" conventions on their location. They are using location codes instead. In order to not confuse the End user, you can modify the titles displayed on the front end to match your environment.

Change: Set Default Printer

The change described for version 4.4 is now implemented on peer- and follow me queues too.

CPS Software Version 4.4 – 10th of February 2015

Change: SetDefaultPrinter

On Windows 7 and higher operating systems, Microsoft has introduced "local awareness default printer". This feature is present only, if the operating system is installed on a laptop. The handling of the default printer dependent on the network, where the laptop is connected to, is stored in the registry, HKCU\printers\defaults.

CPS has set the default printer using a WMI command. Unfortunately Microsoft has forgotten to handle the "local awareness default printer" handling in their WMI handling and only stores the default printer in the usual location, but does not update the registry under HKCU\printers\defaults.
Consequence: When we set the default printer using WMI, it is only working as long as the current user is logged in. On the next login, windows reads the default from HKCU\printers\defaults if it is running on a laptop and if the "local awareness" feature is not disabled. This makes windows use the old default printer.

After the update to CPS Version 4.4, the default will be set by microsoft's PrintUI. This handles the setup of the default printer correctly also on Laptops with "Local awareness" enabled.

Important: The VBScript files available for the user on the frontend of CPS are already generated using the old way. To update the existing VBScript files, please execute the "Re-Generate VBScript files" located in the administration section. This will regenerate the existing VBScript files with the new default printer handling.

Note: If you are using CPS only for queue generation and if you do not use the frontend for clients to map printers, you can omit this update.

CPS Software Version 4.3 – 29th of January 2015

Bug-Fix: Backup did not work

The backup function did not work, if someone deleted all existing printer model definitions. This has been corrected.

CPS Software Version 4.2 – 8th of August 2014

Enhancement: Spooler Service Restart no longer forced

In previous versions, CPS forced a restart of the spooler on the target server when multiple queues were generated. This is now selectable.
Note: We still recommend to let CPS restart the spooler before generating a lot of queues on a server, especially if the server has not been restarted for a long time. This frees up memory and speeds up the generation.

Enhancement: Bidirectional and SNMP can now be disabled per Queue

Some special printers, such as Zebra label printers are not capable of SNMP and don't work correctly, if the bi-directional setting is set to on (which is the default when creating print queues). The BIDI and SNMP settings can be enabled over the CPS GUI or by importing a printer list. The administration page has been enhanced to allow to specify the 2 fields for this setting.