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## BENS CleverPrint Filter Manual



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## 1 Introduction

### The CleverPrint Filter

The **BENS** CleverPrint filter enables the saving of money and resources, such as paper and toner. The administrator can define via a configuration that for some printers certain print properties apply, independent of the settings made by the user on the printer driver.

The 3 properties controllable via a configuration file are:

- Duplex Print
- Monochrome Print
- Toner-saving Print (Eco Mode)

These properties can arbitrarily be combined via a configuration (that way 8 combination possibilities arise).

## 2 Installation of the CleverPrint Filter

For installing the Filter on BENS, please proceed as follows:

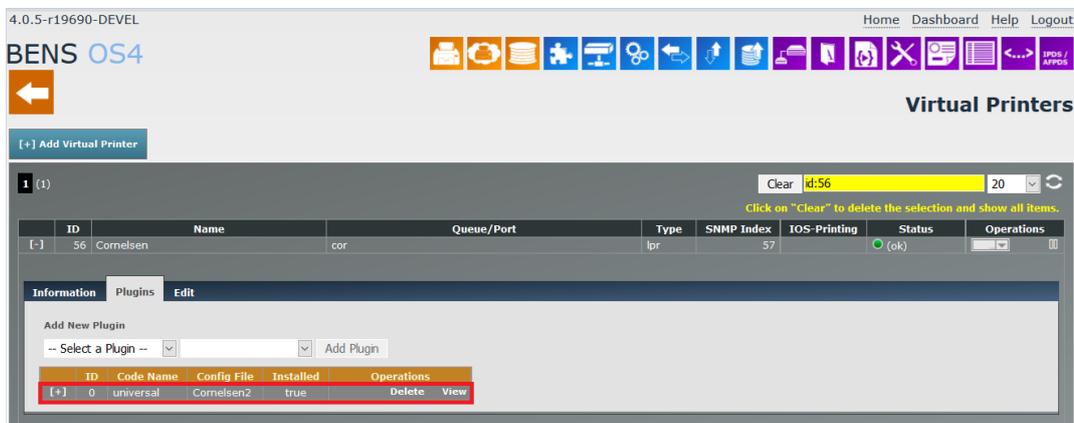
- Start the BENS HTML administration tool and log on.
- Select the module **Plugins** and then click on the button **Add / Upgrade Plugin**.
- Click on the button **Explore**, mark the Filter file and click on the button **Upload**. The name of the filter then appears in the list of all filters available on BENS.

**Note:** Assigning a filter to a virtual printer consumes one licence. The number of available licences can be checked using the module **Licenses**. The used and available licences are displayed in the column "Virtual Printers" of the displayed license table.

### 2.1 Assigning the Filter to a virtual printer

Installed filters only work on virtual printers to which they were assigned. To assign the Filter to a virtual printer, proceed as follows:

- Choose the module **Virtual Printers**
- Double-click on the name of the virtual printer to come to the edit dialog.
- Select the tab **Plugins**
- Select the Plugin from the drop down list and click on **Add Plugin**.
- The selected Filter appears in the list of active filters assigned to the selected virtual printer.



## 2.2 Uploading a Filter configuration file

The filter **CleverPrint** supports the use of a configuration (it is not assigned by default). The configuration file defines printer settings, which will be forced for each printout, like monochrome, duplex and toner saving printing. A configuration file can be created with a simple text editor like notepad or notepad++. Details about the configuration will be displayed later.

To upload a configuration file, proceed as follows:

- Choose the module **Plugins** and double-click on the appropriate filter in the the plugins list. The Plugin Window enlarges and displays all already for the selected Plugin existing configurations.
- Click on **Explore**, select the configuration file and click on **Upload**.
- The new configuration file appears in the list of all configurations available for the selected filter.

**Note:** An unlimited number of configuration files may be uploaded. The same configuration files may be assigned to filters on different virtual printers.

The screenshot shows the BENS OS4 interface with the 'Plugins' window open. The 'UNIVERSAL' filter is selected, and the 'Assigned Virtual Printers' configuration window is displayed. It includes a search bar, an 'Upload' button, and a table of existing configurations.

ID	Name	Description	Operations
[+] 0	Cornelsen2		Delete Download
[+] 1	France	france	Delete Download
[+] 2	Merkel-Wetzel	leysser	Delete Download
[+] 3	Merkel-Wetzel_prefix	Maurer	Delete Download
[+] 4	Merkel_Wetzler_KMMFP	HPGL fur KM MFP	Delete Download
[+] 5	StGobain	StGobain	Delete Download
[+] 6	akf	leysser	Delete Download
[+] 7	charmant	test_config	Delete Download
[+] 8	kroll	Kroll	Delete Download
[+] 9	kroll.cfg	kroll	Delete Download
[+] 10	leysser	leysser	Delete Download
[+] 11	leysser_pre	leysser_pre	Delete Download
[+] 12	test_config.cfg	test_config	Delete Download

## 2.3 Assigning a configuration to a virtual printer

To assign a configuration to a virtual printer, proceed as follows:

- Choose the module **Virtual Printers**.
- Double-click on the name of the virtual printer which has to be modified.
- Select the tab **Plugins**.
- Double-click on the filter name in the field **Code Name** and select a configuration.
- Click on **SET** to make the changes permanent.

**Note:** *One configuration may be assigned per filter and virtual printer but different configuration files may be assigned to the same filter on different virtual printers*

## 2.4 Deleting a configuration file

A configuration file may be deleted only if it is not assigned to any virtual printer. If you need to delete a configuration, you have to release the assignment from all virtual printers to which this configuration has been assigned. To release the configuration from a virtual printer proceed as follows:

- Choose the module **Virtual Printers** and select the tab **Plugins**.
- Double-click on the filter name in the column **Code name**.
- Don't select any configuration file (--Select a Config--) must be visible in the Configurations list) and click on "SET"

To delete a configuration file from BENS proceed as follows:

- Choose the module **Plugins** and double-click on filter name in the column "Name".
- Click on **Delete** in the "Operations" column.

## 2.5 Downloading a configuration file

- Choose the module **Plugins** and click on the name of the filter in the column "Name".
- Click on **Download** in the column "Operations". Depending on the browser used, you can open the file directly or download it to the local system. After downloading, the file can be opened by any editor, such as Notepad or Notepad++ (recommended).

## 2.6 Changing a configuration file

- Choose the module **Plugins** and double-click on the name of filter to which the configuration belongs.
- Double-click on the configurations name in the column "Name".
- Make changes and click on **Save**.

## 2.7 Deleting a filter

A filter may be deleted only if it is not assigned to any virtual printer. If you need to delete a filter, you have to release the assignment from all virtual printers to which this filter has been assigned. To release filter from a virtual printer proceed as follows:

- Choose the module **Virtual Printers** and select the tab **Plugins**.
- Click on **Delete** in the "Operations" column.

To delete filter from BENS proceed as follows:

- Choose the module **Plugins**.
- Click on the grey button in the column **Operations** and select the option **Delete**.

## 2.8 Updating a configuration file

An existing configuration file may be updated, even if it is assigned to virtual printers:

- Existing configuration will be overwritten by uploaded configurations if the file name will match. Follow the instruction for uploading a configuration to update a configuration.

### 3 Configuration File for the CleverPrint Filter

The Clever Print filter always requires a configuration file, in which the used print properties are defined.

```
<?xml version="1.0" encoding="iso-8859-2"?>

<JobControl>

  <EnforceDuplex>YES</EnforceDuplex>
  <EnforceDuplexBinding>VERTICAL</EnforceDuplexBinding>
  <EnforceDuplex>END</EnforceDuplex>

  <EnforceMonochrome>YES</EnforceMonochrome>
  <AddPJL>@PJL SET PLANESINUSE = 1</AddPJL>
  <AddPJL>@PJL SET DRIVERCOLORSELECT = GRAYSCALE</AddPJL>
  <AddPJL>@PJL SET KCOLORMODE = MONO</AddPJL>
  <AddPJL>@PJL SET LCOLORMODEL=BLACK</AddPJL>
  <AddPJL>@PJL SET RENDERMODE=GRAYSCALE</AddPJL>
  <EnforceMonochrome>END</EnforceMonochrome>

  <EnforceEconomode>YES</EnforceEconomode>
  <AddPJL>@PJL SET TONERSAVE = TYPE1</AddPJL>
  <AddPJL>@PJL SET ECONOMODE=ON</AddPJL>
  <AddPJL>@PJL SET DENSITY=1</AddPJL>
  <EnforceEconomode>END</EnforceEconomode>

  <AddPJLCR>YES</AddPJLCR>

</JobControl>
```

### 3.1 <JobControl>

Between the TAGs <JobControl> and </JobControl> standard settings can be made. That way, the operation mode of the filter is affected.

### 3.2 <EnforceDuplex>

```
<EnforceDuplex>YES</EnforceDuplex>  
...  
<EnforceDuplex>END</EnforceDuplex>
```

This TAG defines whether each printout is made in duplex.

Valid values are:

**YES:** each printout is made in duplex.

**NO:** the printouts are made according to the user settings.

### 3.3 <EnforceMonochrome>

```
<EnforceMonochrome>YES</EnforceMonochrome>  
...  
<EnforceMonochrome>END</EnforceMonochrome>
```

This TAG defines whether each printout is made in greyscale (no colour).

Valid values are:

**YES:** each printout is made in greyscale.

**NO:** the printouts are made according to the user settings.

### 3.4 <EnforceEconomode>

```
<EnforceEconomode>YES</EnforceEconomode>  
...  
<EnforceEconomode>END</EnforceEconomode>
```

This TAG defines whether each printout is made in the toner-saving mode.

Valid values are:

**YES:** each printout is made in the toner-saving mode.

**NO:** the printouts are made according to the user settings.

### 3.5 <AddPJLCR>

```
<AddPJLCR>YES</AddPJLCR>
```

This TAG defines whether PJL-commands only end with LF or with LF/CR.

Valid values are:

**YES:** the PJL commands end with LF / CR

**NO:** the PJL commands only end with LF