

## Modifying a device type

Start with your own  
Device Type

PJL and other  
global settings

Adding new Print-Controls  
for PCL settings like  
Barcodes

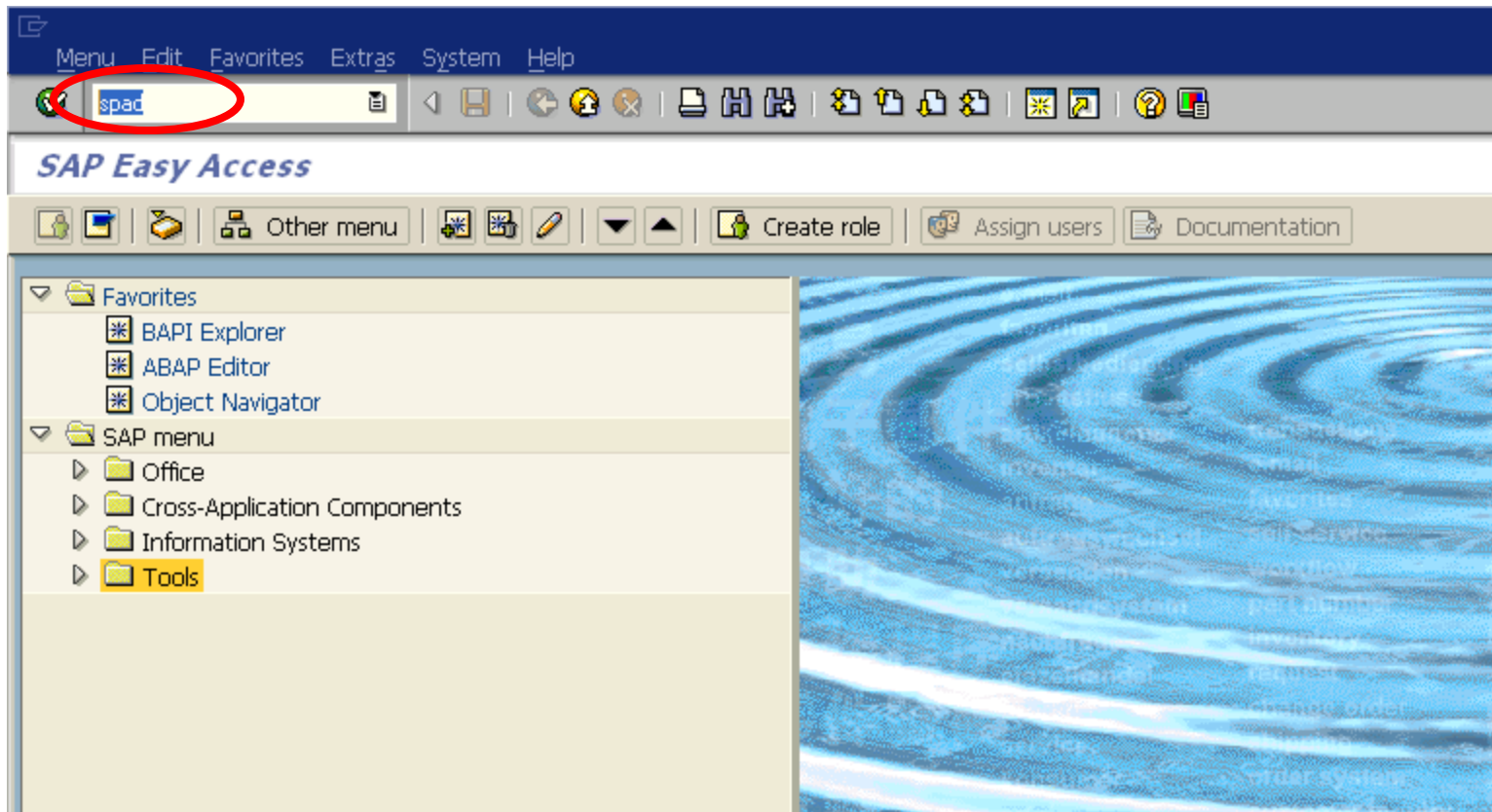
Test your new Print-  
Controls

Export/Import your new  
Device Type



# SAP Spooler Administration

Go to the spooler administrator  
(enter spad like in the screenshot and hit RETURN)



Modifying a device type

**Start with your own Device Type**

PJL and other global settings

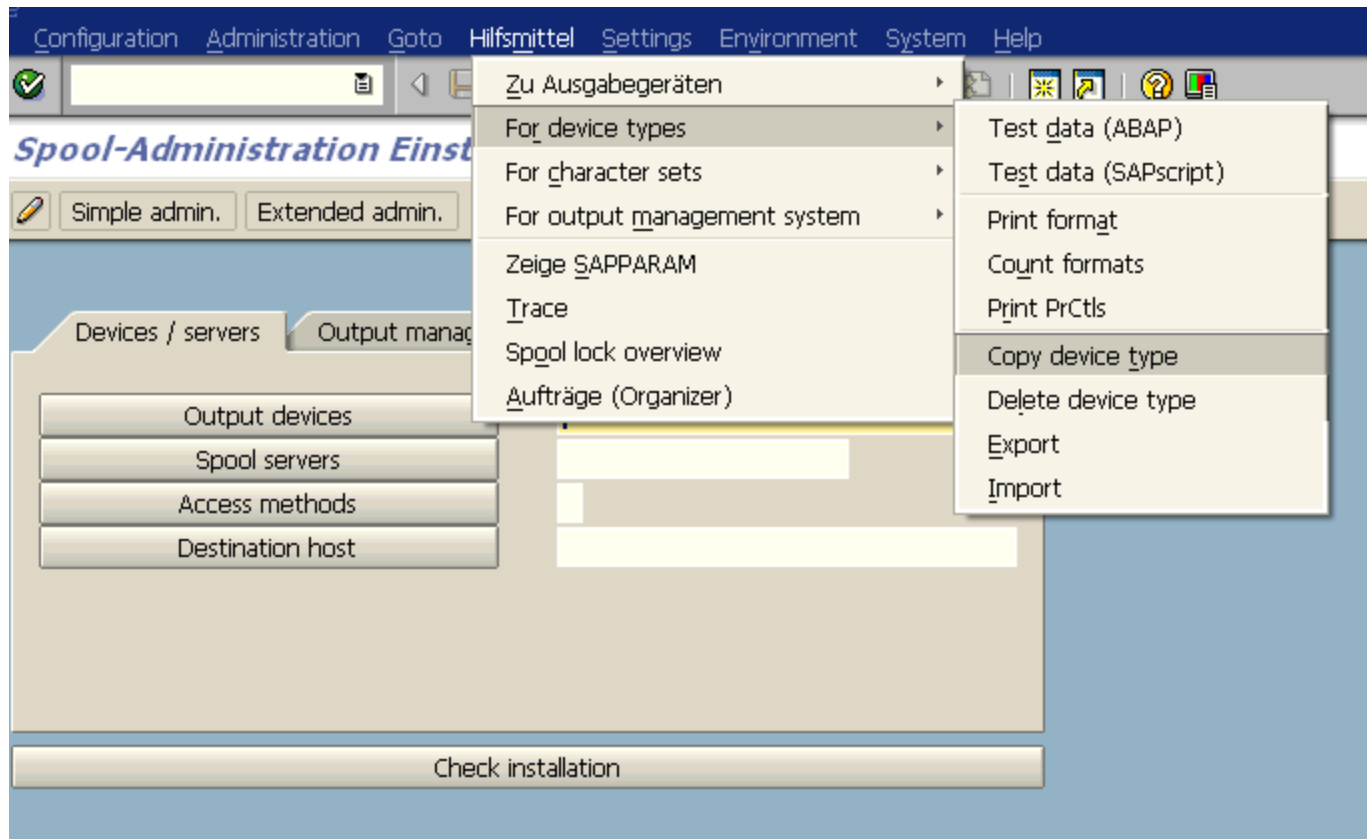
Adding new Print-Controls for PCL settings like Barcodes

Test your new Print-Controls

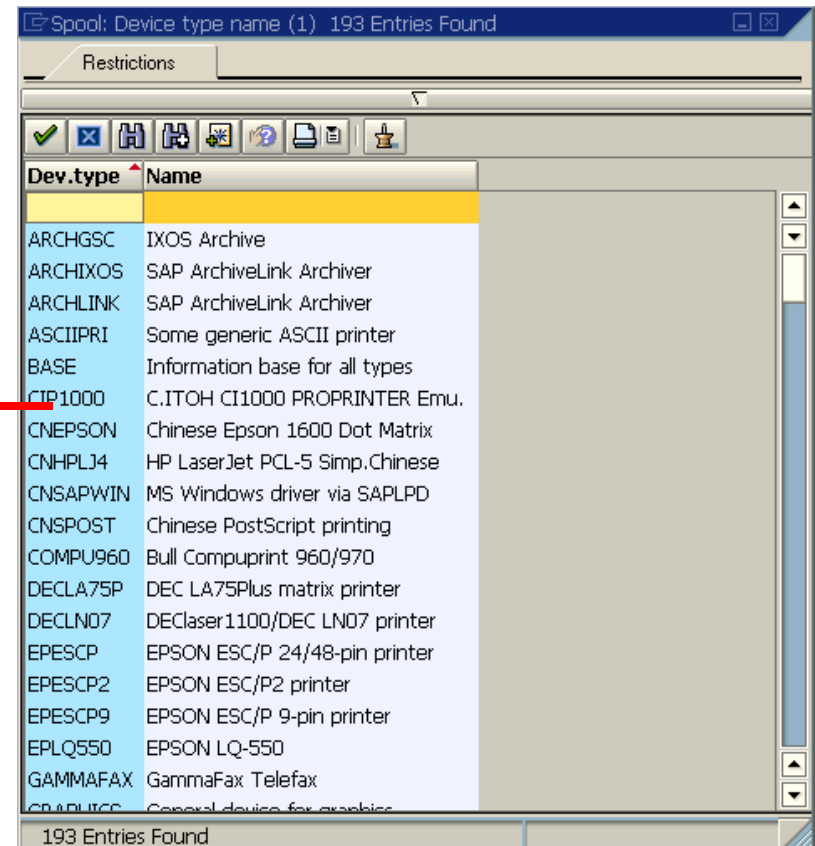
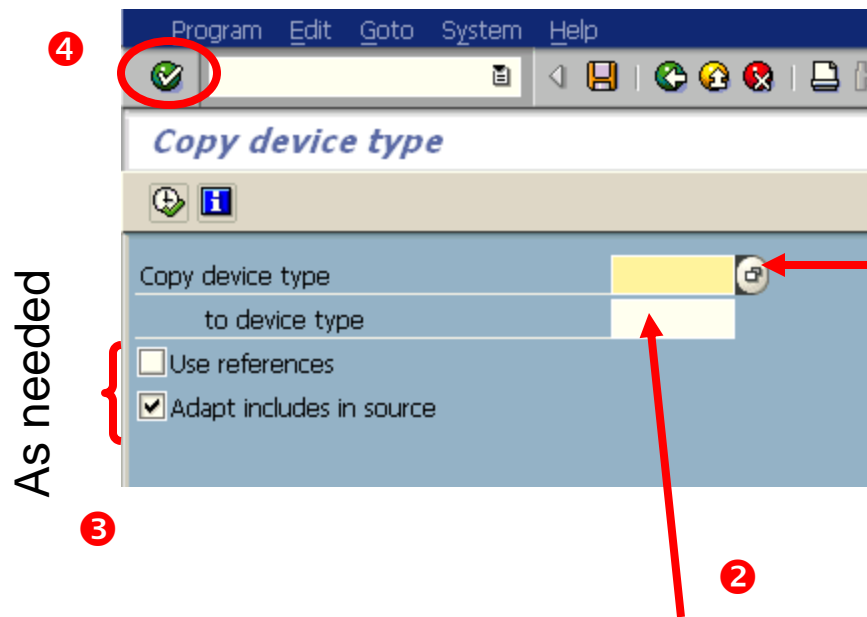
Export/Import your new Device Type

# Copy an existing device type

Select Utilities (Hilfsmittel) -> For device types -> Copy device type



# Copy an existing device type



Type new device type name starting with **Y** or **Z**

Modifying a device type

Start with your own Device Type

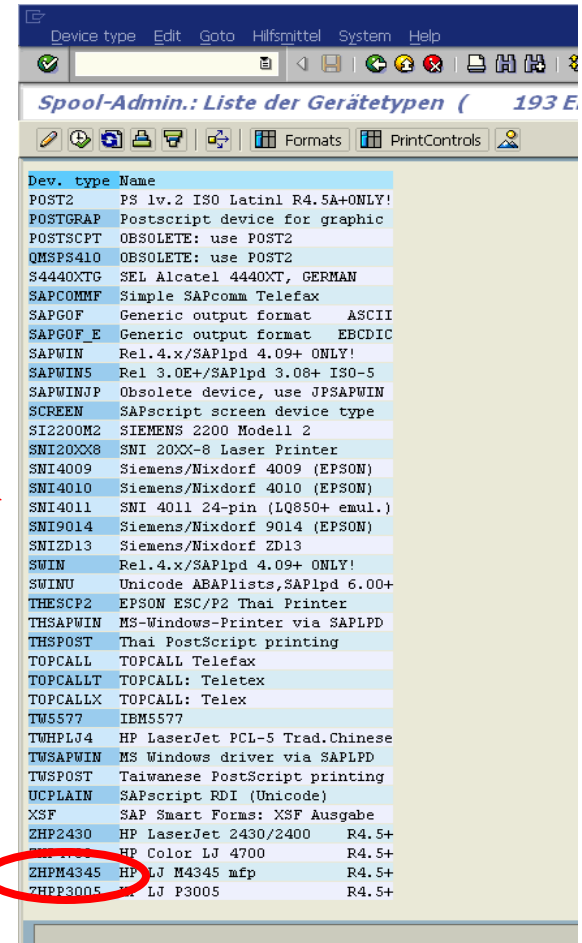
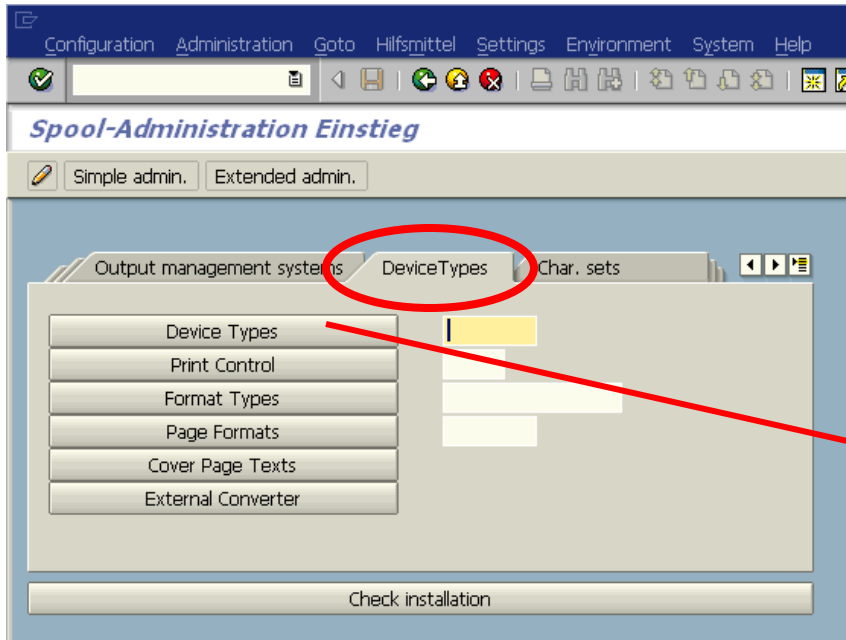
**PJL and other global settings**

Adding new Print-Controls for PCL settings like Barcodes

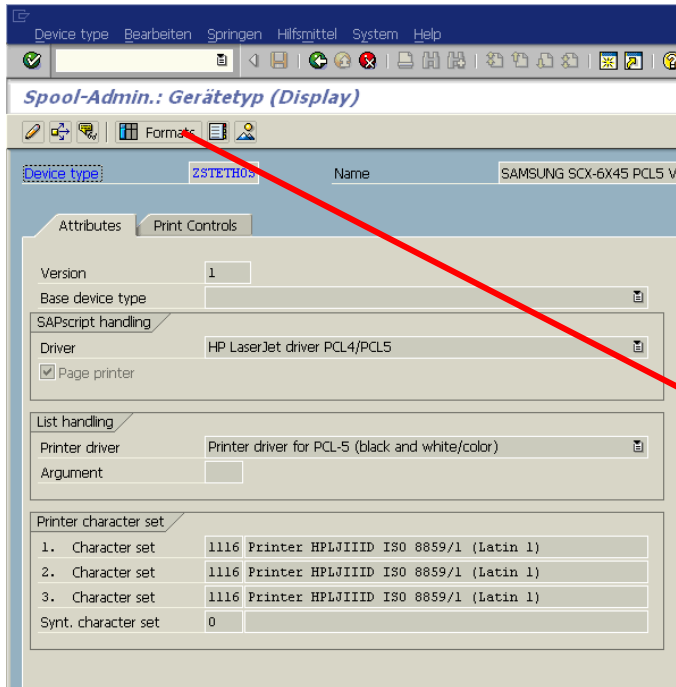
Test your new Print-Controls

Export/Import your new Device Type

# Change global printing commands PJP etc.



# Change global printing commands PJL etc.



Spool-Admin.: Gerätetyp (Display)

Device type: ZSTETHOS Name: SAMSUNG SCX-6X45 PCL5 V

Attributes: Print Controls

Version: 1

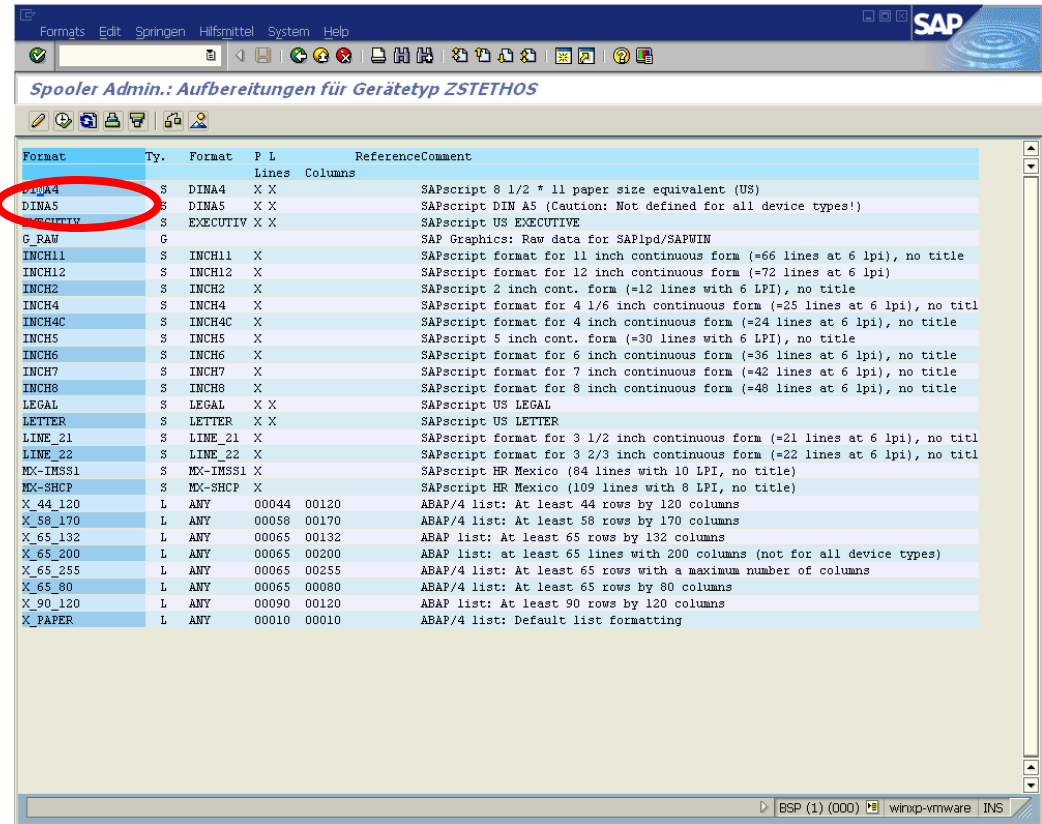
Base device type: [dropdown]

SAPscript handling: Driver: HP LaserJet driver PCL4/PCL5  Page printer

List handling: Printer driver: Printer driver for PCL-5 (black and white/color) Argument: [text box]

Printer character set:

|                     |      |                                       |
|---------------------|------|---------------------------------------|
| 1. Character set    | 1116 | Printer HPLJIIID ISO 8859/1 (Latin 1) |
| 2. Character set    | 1116 | Printer HPLJIIID ISO 8859/1 (Latin 1) |
| 3. Character set    | 1116 | Printer HPLJIIID ISO 8859/1 (Latin 1) |
| Synt. character set | 0    |                                       |

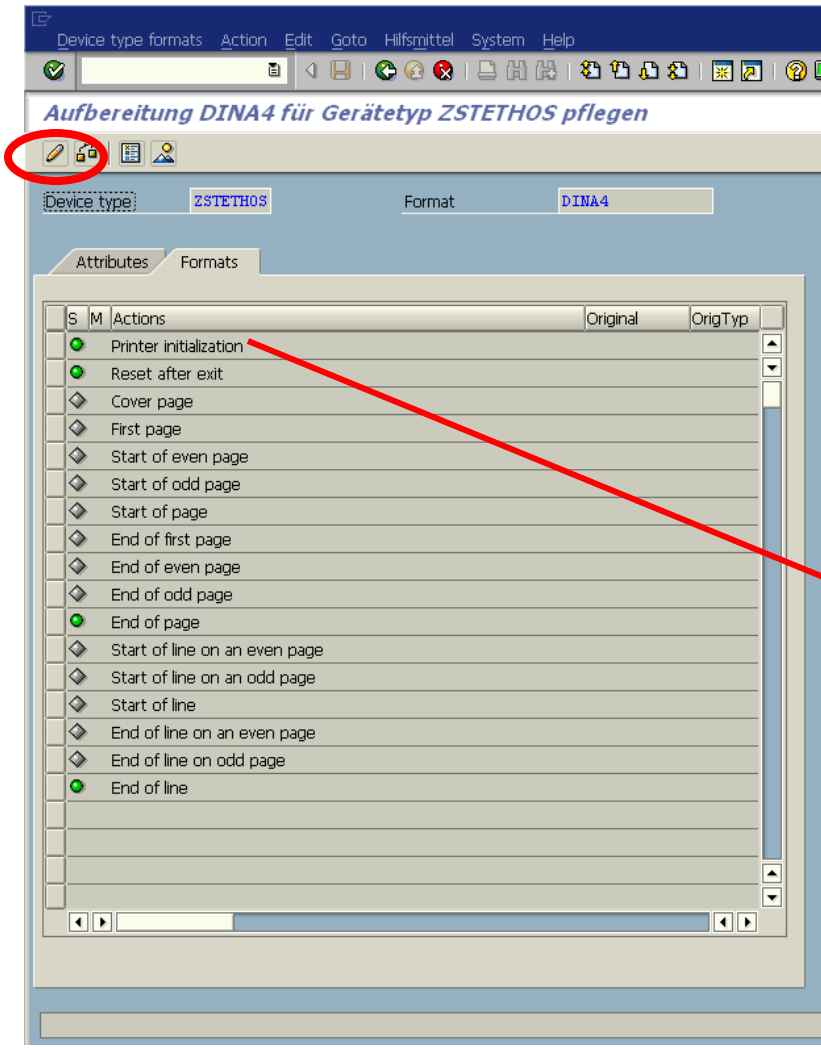


Spooler Admin.: Aufbereitungen für Gerätetyp ZSTETHOS

| Format   | Ty. | Format   | P L         | ReferenceComment  |
|----------|-----|----------|-------------|---|
|          |     | Lines    | Columns     |   |
| DINA4    | S   | DINA4    | X X         | SAPscript 8 1/2 * 11 paper size equivalent (US)                               |
| DINA5    | S   | DINA5    | X X         | SAPscript DIN A5 (Caution: Not defined for all device types!)                 |
| EXECUTIV | S   | EXECUTIV | X X         | SAPscript US EXECUTIVE  |
| G_RAW    | G   |          |             | SAP Graphics: Raw data for SAPlpd/SAPWIN                                      |
| INCH11   | S   | INCH11   | X           | SAPscript format for 11 inch continuous form (=66 lines at 6 lpi), no title   |
| INCH12   | S   | INCH12   | X           | SAPscript format for 12 inch continuous form (=72 lines at 6 lpi)             |
| INCH2    | S   | INCH2    | X           | SAPscript 2 inch cont. form (=12 lines with 6 LPI), no title                  |
| INCH4    | S   | INCH4    | X           | SAPscript format for 4 1/6 inch continuous form (=25 lines at 6 lpi), no titl |
| INCH4C   | S   | INCH4C   | X           | SAPscript format for 4 inch continuous form (=24 lines at 6 lpi), no title    |
| INCH5    | S   | INCH5    | X           | SAPscript 5 inch cont. form (=30 lines with 6 LPI), no title                  |
| INCH6    | S   | INCH6    | X           | SAPscript format for 6 inch continuous form (=36 lines at 6 lpi), no title    |
| INCH7    | S   | INCH7    | X           | SAPscript format for 7 inch continuous form (=42 lines at 6 lpi), no title    |
| INCH8    | S   | INCH8    | X           | SAPscript format for 8 inch continuous form (=48 lines at 6 lpi), no title    |
| LEGAL    | S   | LEGAL    | X X         | SAPscript US LEGAL  |
| LETTER   | S   | LETTER   | X X         | SAPscript US LETTER   |
| LINE_21  | S   | LINE_21  | X           | SAPscript format for 3 1/2 inch continuous form (=21 lines at 6 lpi), no titl |
| LINE_22  | S   | LINE_22  | X           | SAPscript format for 3 2/3 inch continuous form (=22 lines at 6 lpi), no titl |
| MX-INSS1 | S   | MX-INSS1 | X           | SAPscript HR Mexico (84 lines with 10 LPI, no title)                          |
| MX-SHCP  | S   | MX-SHCP  | X           | SAPscript HR Mexico (109 lines with 8 LPI, no title)                          |
| X_44_120 | L   | ANY      | 00044 00120 | ABAP/4 list: At least 44 rows by 120 columns                                  |
| X_58_170 | L   | ANY      | 00058 00170 | ABAP/4 list: At least 58 rows by 170 columns                                  |
| X_65_132 | L   | ANY      | 00065 00132 | ABAP list: At least 65 rows by 132 columns                                    |
| X_65_200 | L   | ANY      | 00065 00200 | ABAP list: at least 65 lines with 200 columns (not for all device types)      |
| X_65_255 | L   | ANY      | 00065 00255 | ABAP/4 list: At least 65 rows with a maximum number of columns                |
| X_65_80  | L   | ANY      | 00065 00080 | ABAP/4 list: At least 65 rows by 80 columns                                   |
| X_90_120 | L   | ANY      | 00090 00120 | ABAP list: At least 90 rows by 120 columns                                    |
| X_PAPER  | L   | ANY      | 00010 00010 | ABAP/4 list: Default list formatting  |



# Change global printing commands PJP etc.

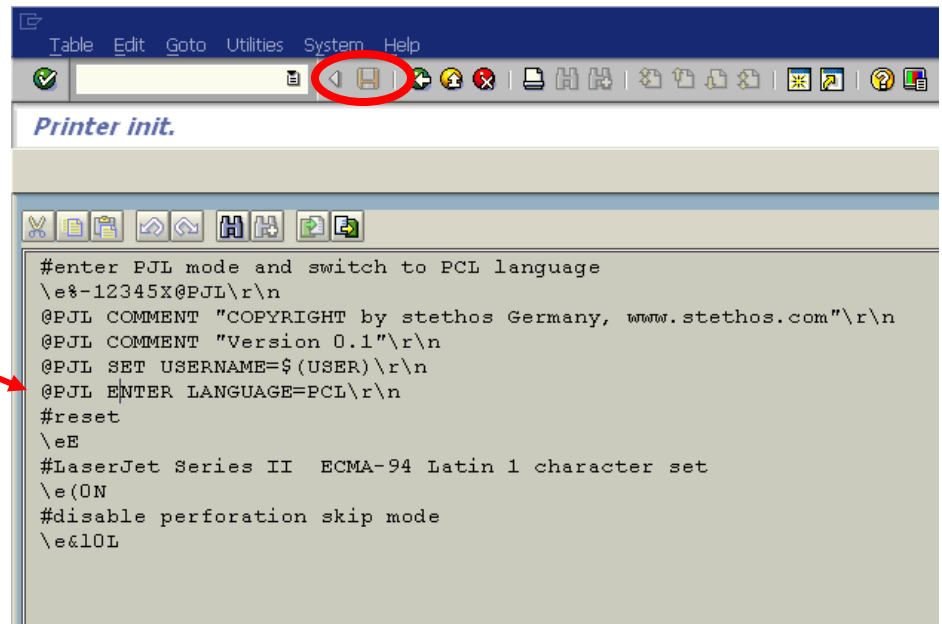


Aufbereitung DIN A4 für Gerätetyp ZSTETHOS pflegen

Device type: ZSTETHOS    Format: DIN A4

Attributes    Formats

| S                                   | M                                   | Actions                       | Original | OrigTyp |
|-------------------------------------|-------------------------------------|-------------------------------|----------|---------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Printer initialization        |          |         |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Reset after exit              |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | Cover page                    |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | First page                    |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | Start of even page            |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | Start of odd page             |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | Start of page                 |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | End of first page             |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | End of even page              |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | End of odd page               |          |         |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | End of page                   |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | Start of line on an even page |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | Start of line on an odd page  |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | Start of line                 |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | End of line on an even page   |          |         |
| <input type="checkbox"/>            | <input type="checkbox"/>            | End of line on odd page       |          |         |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | End of line                   |          |         |



Printer init.

```
#enter PJP mode and switch to PCL language
\e&-12345X@PJP\r\n
@PJP COMMENT "COPYRIGHT by stethos Germany, www.stethos.com"\r\n
@PJP COMMENT "Version 0.1"\r\n
@PJP SET USERNAME=$(USER)\r\n
@PJP ENTER LANGUAGE=PCL\r\n
#reset
\eE
#LaserJet Series II ECMA-94 Latin 1 character set
\e(0N
#disable perforation skip mode
\e&10L
```

# The fact

For testing this new layout setup, ask the SAP folks to print a new job using the new device type

They need first to create a new output device, using the device type.

See later in the presentation how to do that

Modifying a device type

Start with your own Device Type

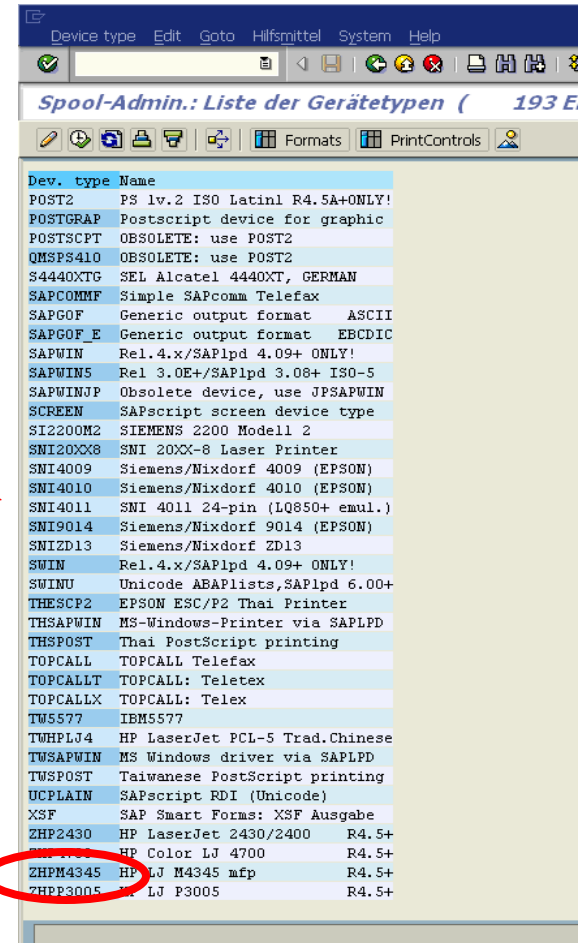
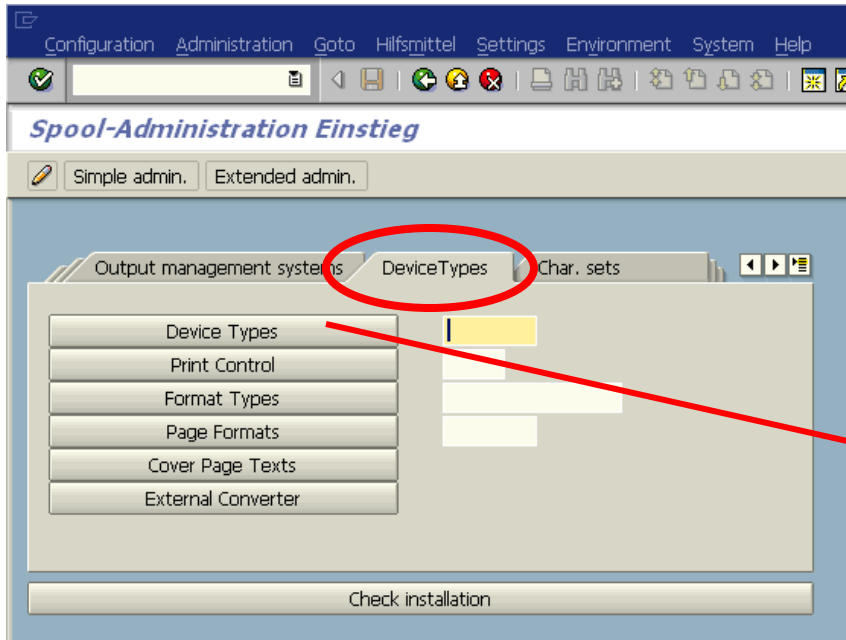
PJL and other global settings

Adding new Print-Controls for PCL settings like Barcodes

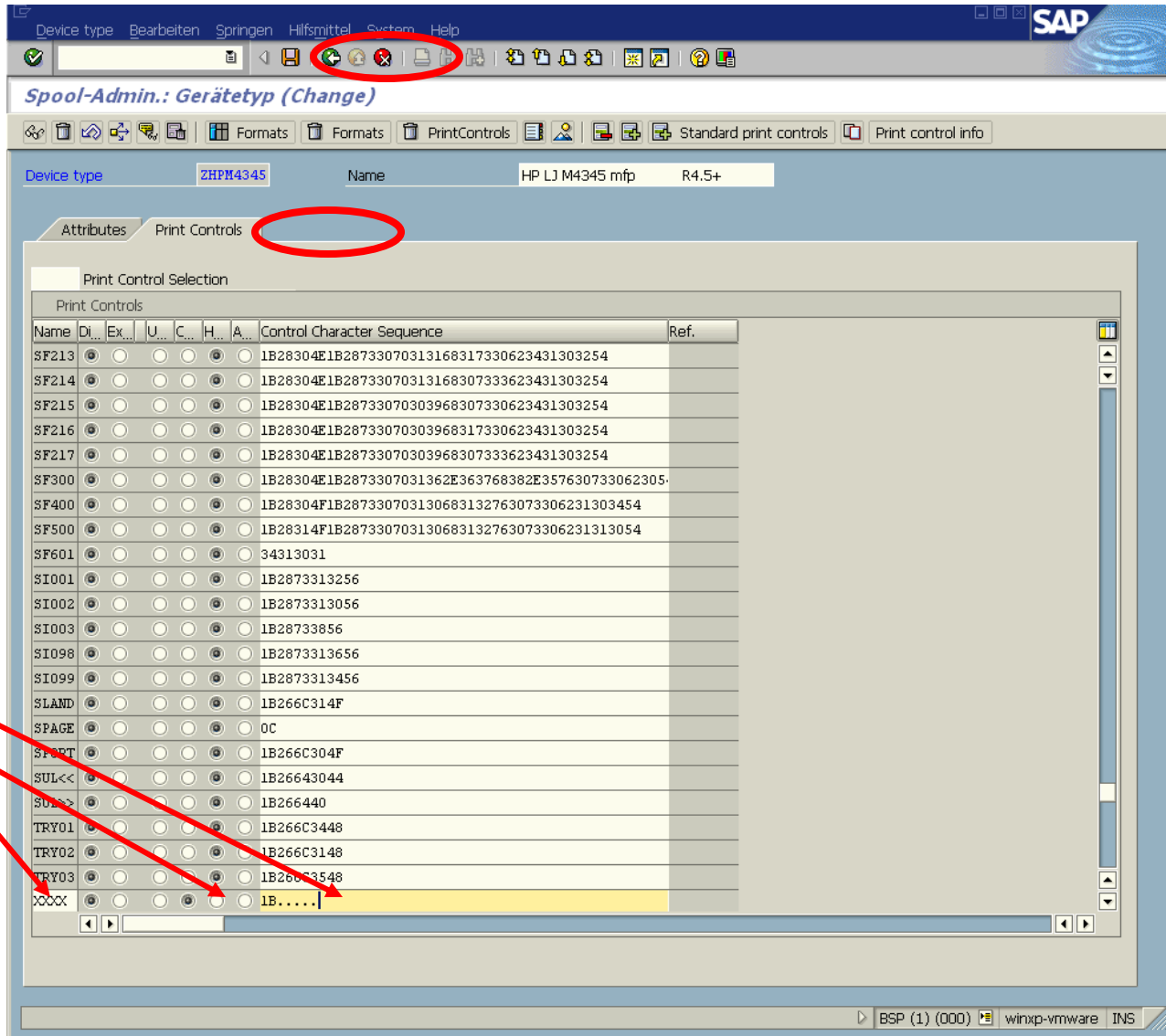
Test your new Print-Controls

Export/Import your new Device Type

# Change / Add Escape Sequences



# Change / Add Escape Sequences



Device type: ZHPM4345 Name: HP LJ M4345 mfp R4.5+

Attributes: Print Controls

Print Control Selection

| Name  | Di...                            | Ex...                 | U...                  | C...                  | H...                  | A...                  | Control Character Sequence                         | Ref. |
|-------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|------|
| SF213 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B28304E1B28733070313168317330623431303254         |      |
| SF214 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B28304E1B28733070313168307333623431303254         |      |
| SF215 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B28304E1B28733070303968307330623431303254         |      |
| SF216 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B28304E1B28733070303968317330623431303254         |      |
| SF217 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B28304E1B28733070303968307333623431303254         |      |
| SF300 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B28304E1B2873307031362E363768382E357630733062305. |      |
| SF400 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B28304F1B287330703130683132763073306231303454     |      |
| SF500 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B28314F1B287330703130683132763073306231313054     |      |
| SF601 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 34313031   |      |
| SI001 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B2873313256                                       |      |
| SI002 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B2873313056                                       |      |
| SI003 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B28733856   |      |
| SI098 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B2873313656                                       |      |
| SI099 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B2873313456                                       |      |
| SLAND | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B266C314F   |      |
| SPACE | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 0C   |      |
| SPERT | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B266C304F   |      |
| SUL<< | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B26643044   |      |
| SUL>> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B266440   |      |
| TRY01 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B266C3448   |      |
| TRY02 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B266C3148   |      |
| TRY03 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B266C3548   |      |
| XXXX  | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 1B.....  |      |

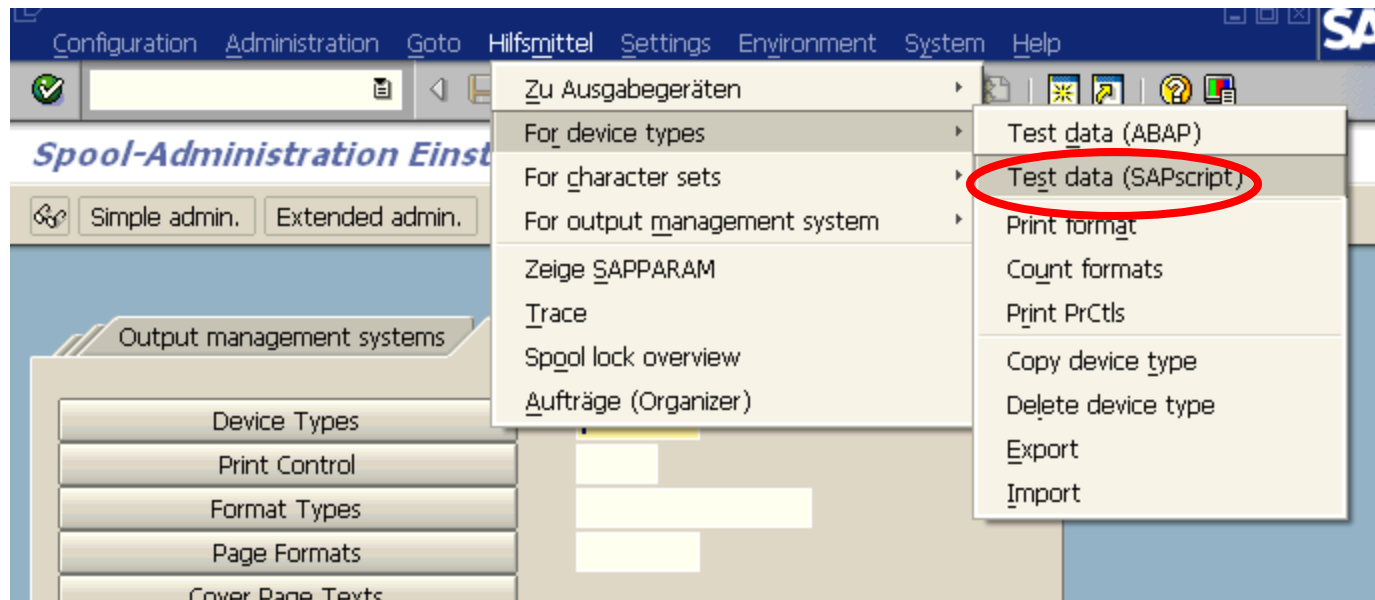
Tipp:

For barcoding you can get the hex values pretty easy, install our ELP <http://welp.stethos.com> and then use the MS Word based Field & Forms Installer to click the needed barcode together.

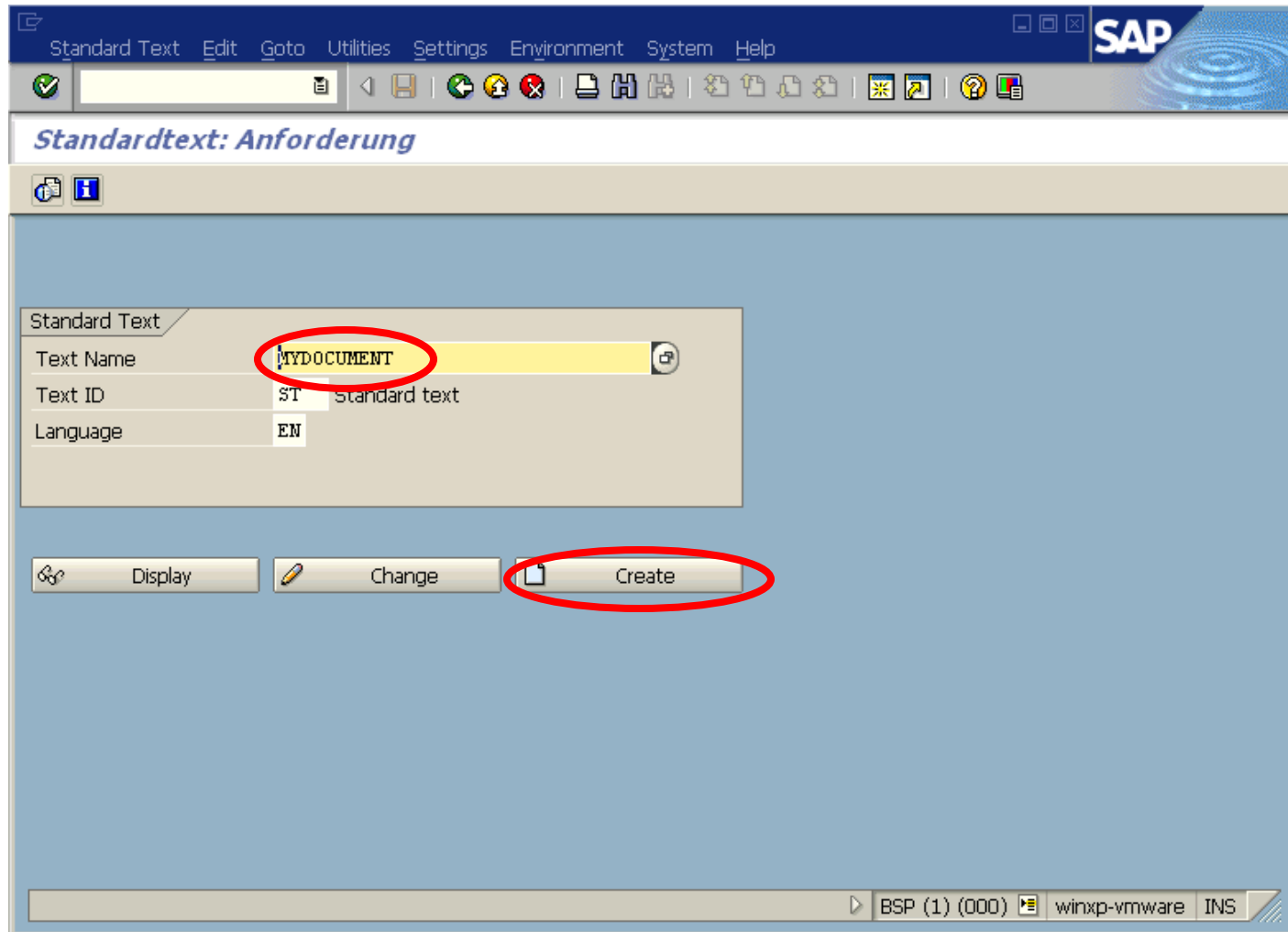
If the barcode needs to be printed from top to bottom, then enter a minus sign in front of the size value (-#v)

# Test your new PCL / PDL settings

For testing your new print control select  
Utilities (Hilfsmittel) -> for device types -> Test data (SAPscript)



# SAP Spooler Administration

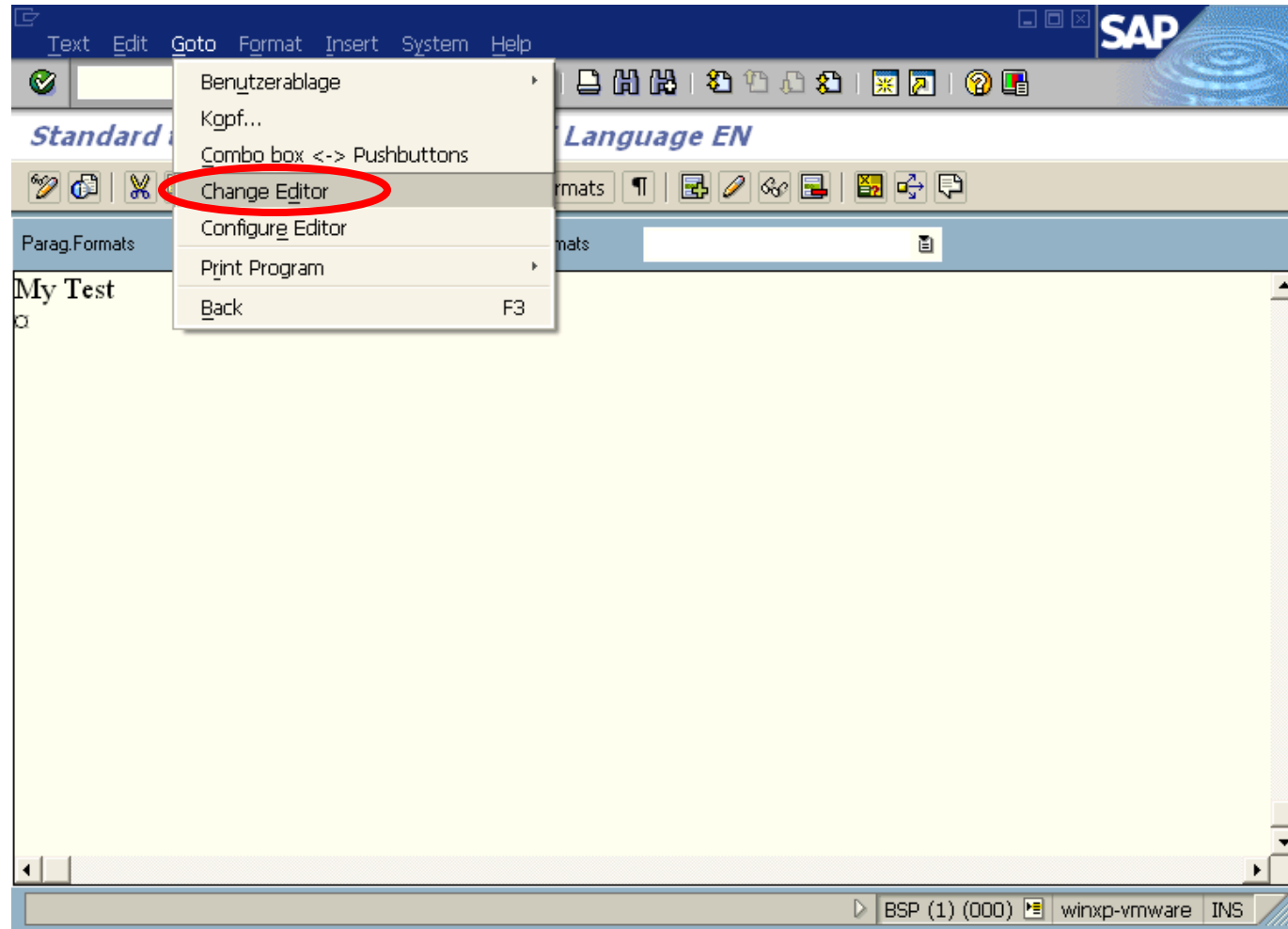


The screenshot shows the SAP Standard Text Administration interface. The title bar reads "Standard Text: Anforderung". The main area contains a form with the following fields:

|           |                  |
|-----------|------------------|
| Text Name | MYDOCUMENT       |
| Text ID   | ST Standard text |
| Language  | EN               |

Below the form are three buttons: "Display", "Change", and "Create". The "Create" button is circled in red. The status bar at the bottom shows "BSP (1) (000) winxp-vmware INS".

# SAP Spooler Administration





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**Test your new Print-Controls**

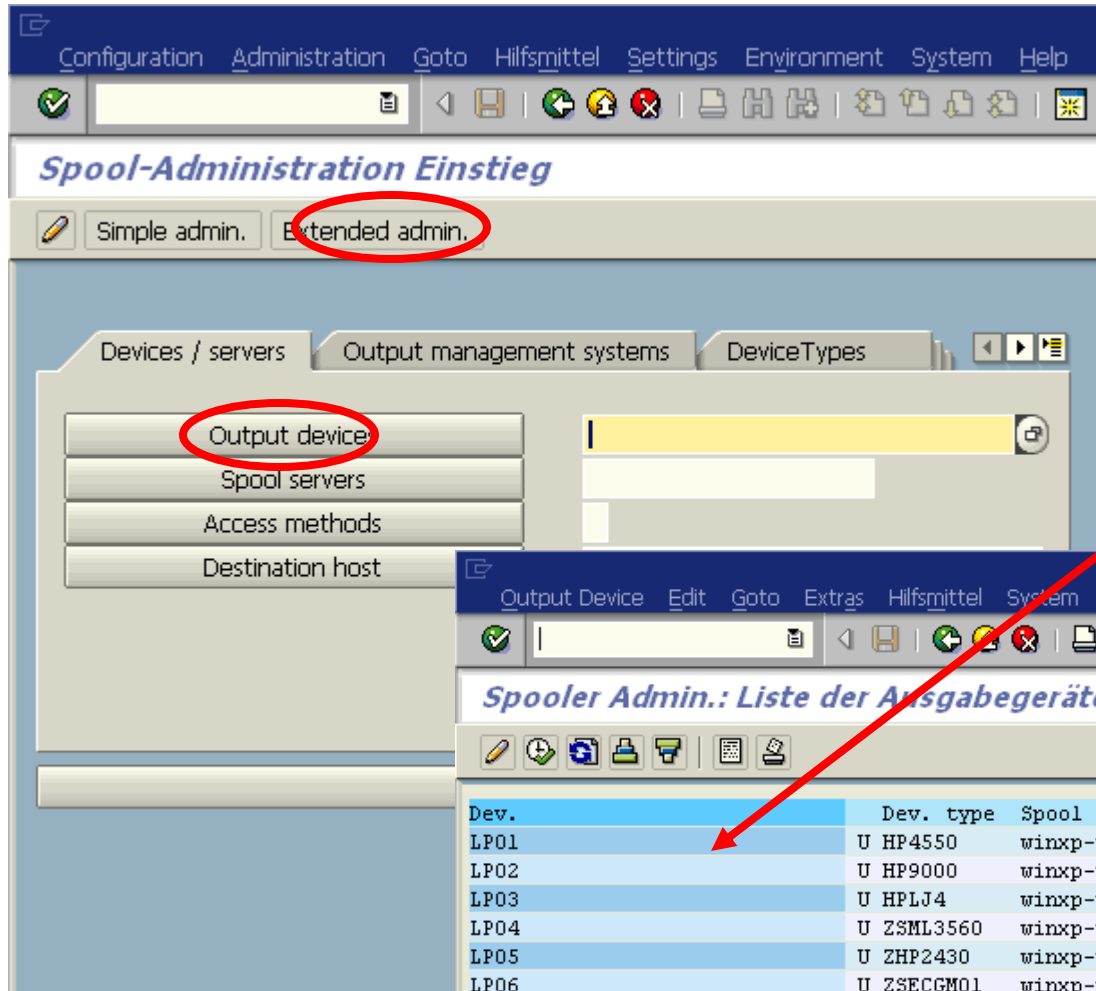
Export/Import your new Device Type

## Test your new Print-Controls

Step one, generate a new Output Device

(only needed once to be done)

# Print to a printer / insert ELP



Configuration Administration Goto Hilfsmittel Settings Environment System Help

Spool-Administration Einstieg

Simple admin. **Extended admin.**

Devices / servers Output management systems DeviceTypes

**Output device**  
Spool servers  
Access methods  
Destination host

Output Device Edit Goto Extras Hilfsmittel System Help

Spooler Admin.: Liste der Ausgabegeräte ( 8 Einträge)

| Dev. | Dev. type  | Spool servers       | Location or message                  |
|------|------------|---------------------|--------------------------------------|
| LP01 | U HP4550   | winxp-vmware_BSP_00 | HP 4550                              |
| LP02 | U HP9000   | winxp-vmware_BSP_00 | HP 9500 mit 9000Device Typ           |
| LP03 | U HPLJ4    | winxp-vmware_BSP_00 | HP m5035MFP mit LJ4-PCL5 device type |
| LP04 | U ZSML3560 | winxp-vmware_BSP_00 |                                      |
| LP05 | U ZHP2430  | winxp-vmware_BSP_00 |                                      |
| LP06 | U ZSECGM01 | winxp-vmware_BSP_00 |                                      |
| LP07 | U ZHPM4345 | winxp-vmware_BSP_00 |                                      |
| LP08 | U ZSTETHOS | winxp-vmware_BSP_00 |                                      |

Double click

# Print to a printer / insert ELP

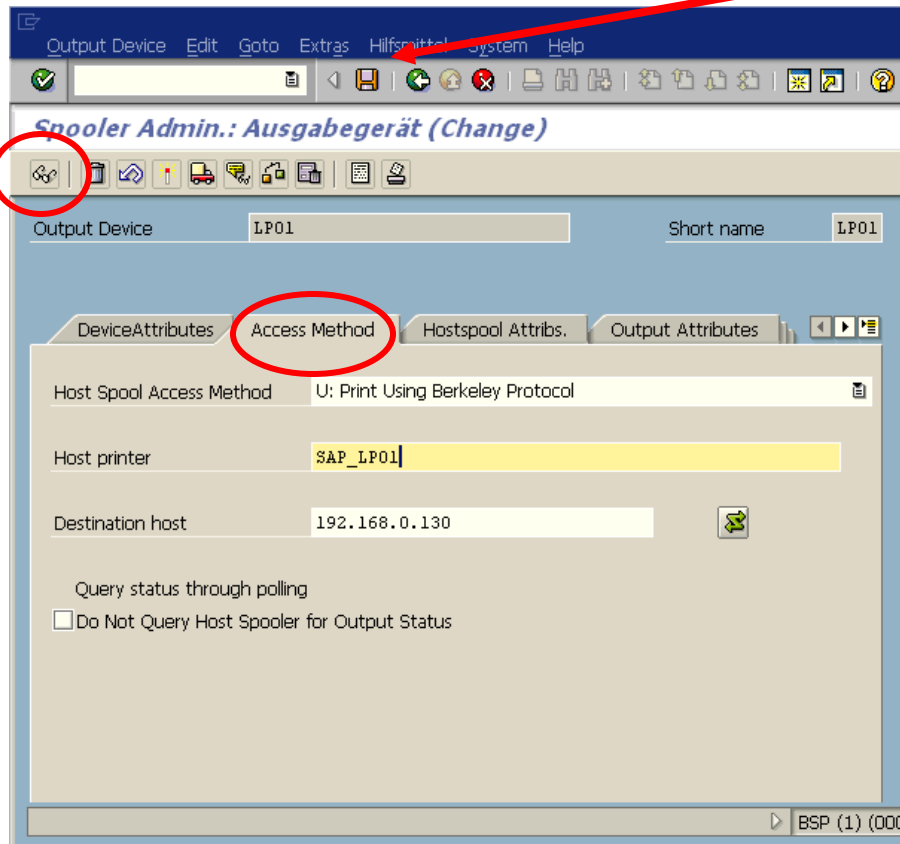
## Windows:

Use „U: Print Using Berkeley Protocol“

Enter the printer share name („SAP\_LP01“)

Enter the IP address of the print host

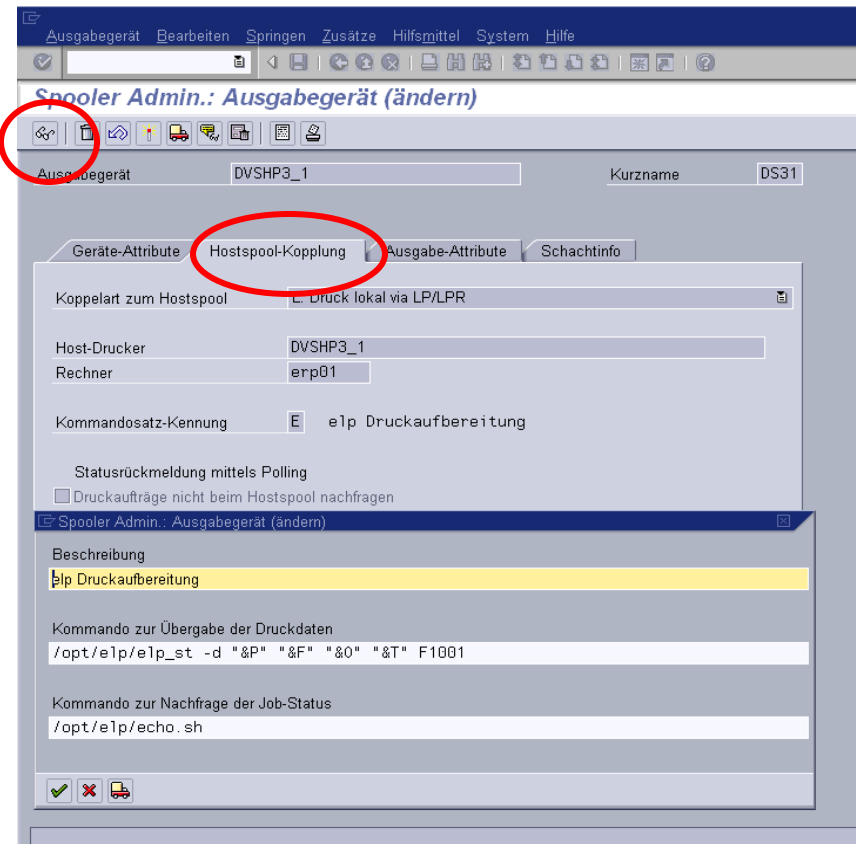
save



## Unix:

Use „L: Print locally using LP/LPR“

Change from LP to ELP shell script



Print to a printer / insert ELP

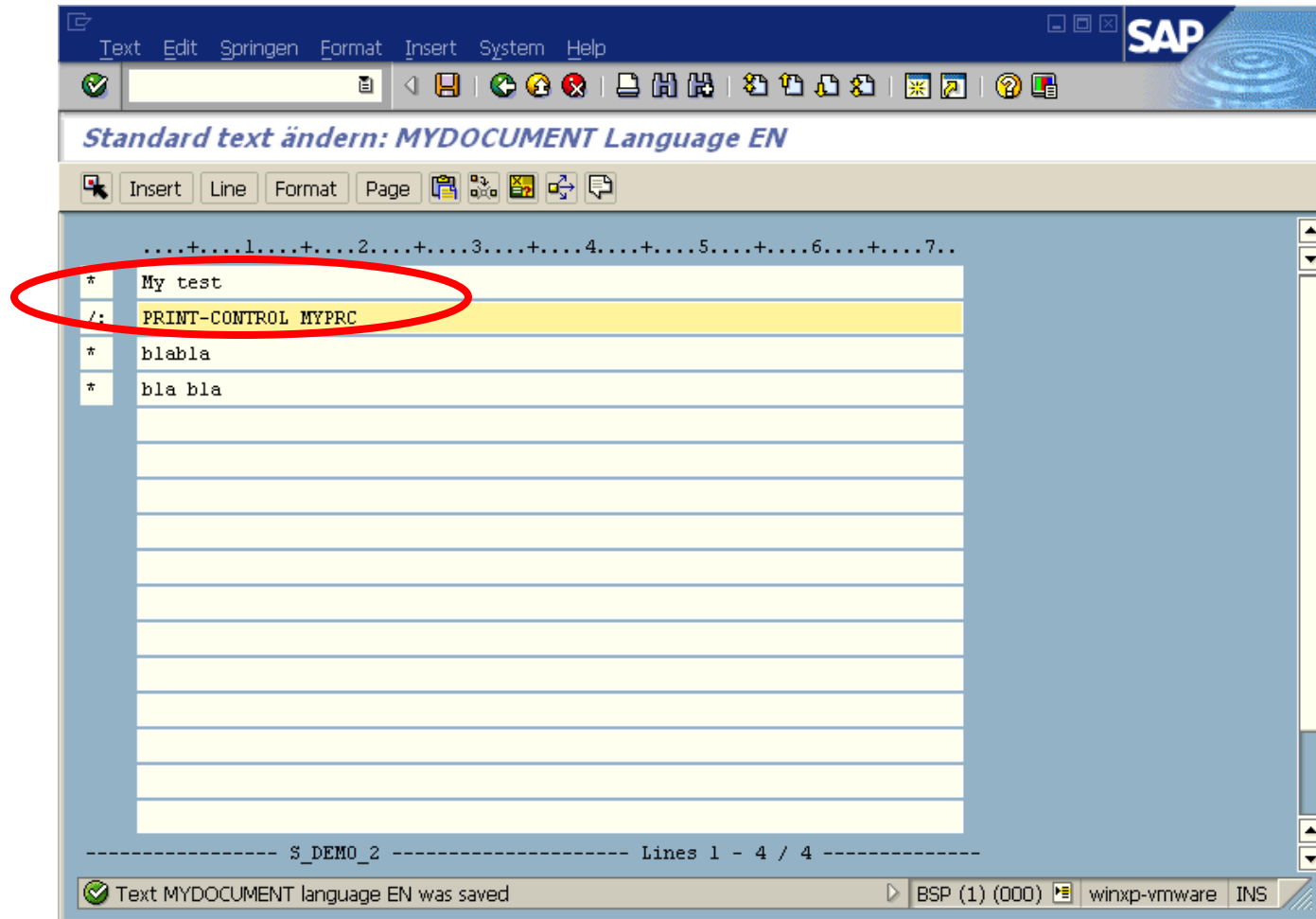


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Test your new Print-Controls

Step two, generate a new test form and print

# SAP Spooler Administration



This is the correct editor: to use your print control, just use the marked line (syntax: `„/; PRINT-CONTROL PRINTCONTROLNAME“`)

If you want to print it, click on the printer symbol.

Then in the upcoming dialog enter the printer name („LP01“)  
and click on print.

Then you will see how your print control affects  
the common print of a document.

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Export/Import your new Device Type



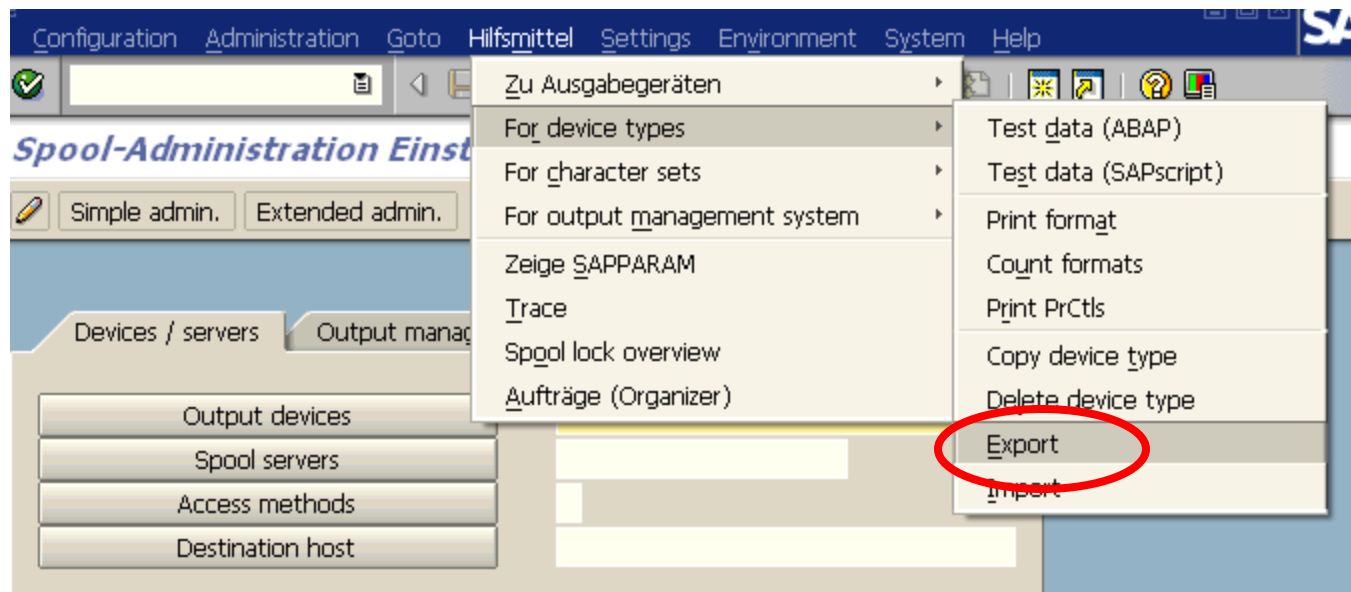
The fact



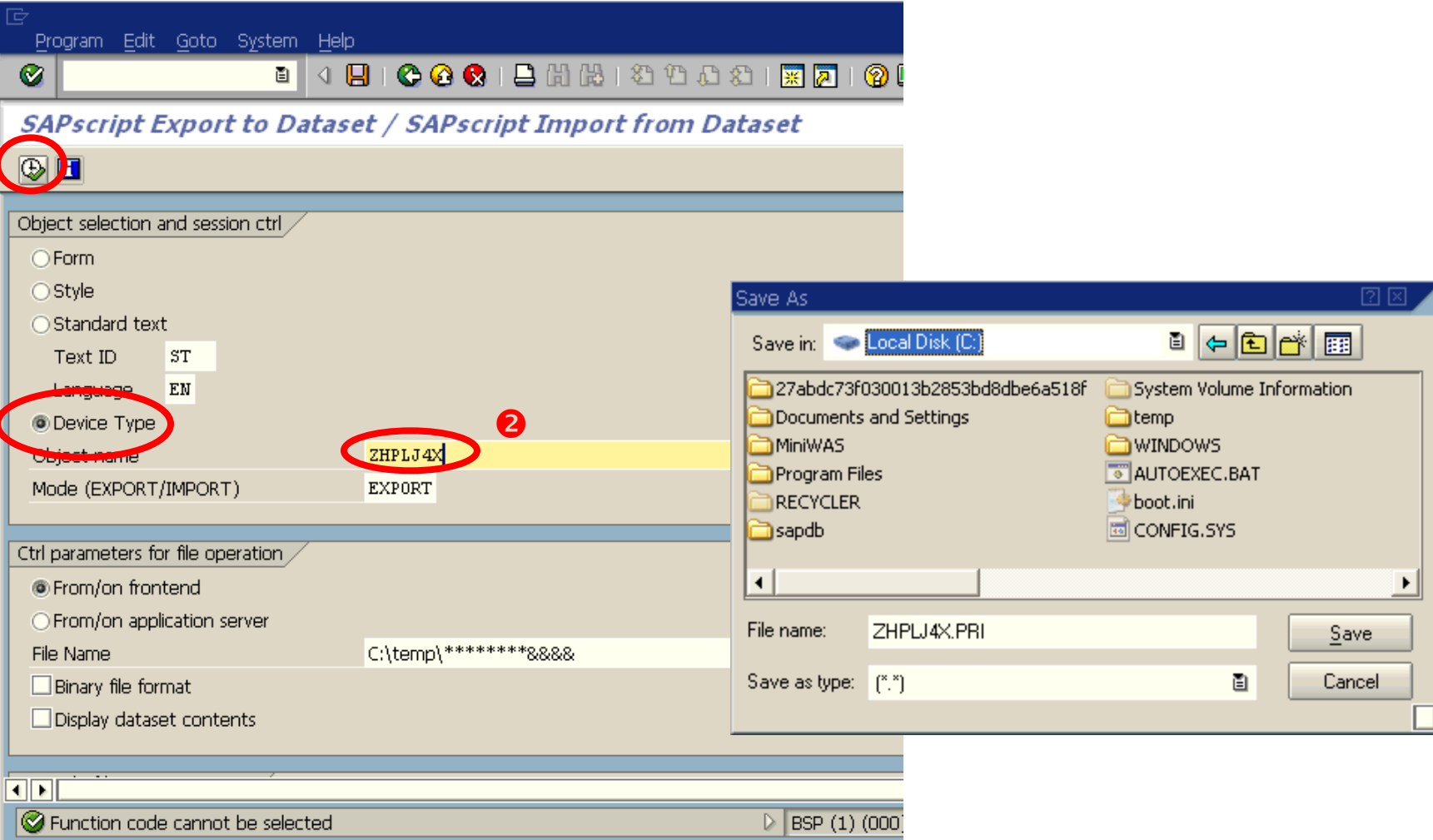
© [www.stethos.com](http://www.stethos.com)

Distribute your new driver  
Export / Import

# Export a device type



# Export a device type



The screenshot shows the SAPscript Export to Dataset dialog box and a Save As dialog box. The SAPscript dialog has several sections:

- Object selection and session ctrl:** Includes radio buttons for Form, Style, and Standard text. Text ID is set to ST, Language to EN, and Device Type is selected (circled with a red 1). Object name is ZHPLJ4X (circled with a red 2). Mode is EXPORT.
- Ctrl parameters for file operation:** Includes radio buttons for From/on frontend (selected) and From/on application server. File Name is C:\temp\\*\*\*\*\*&&&. Binary file format and Display dataset contents are unchecked.

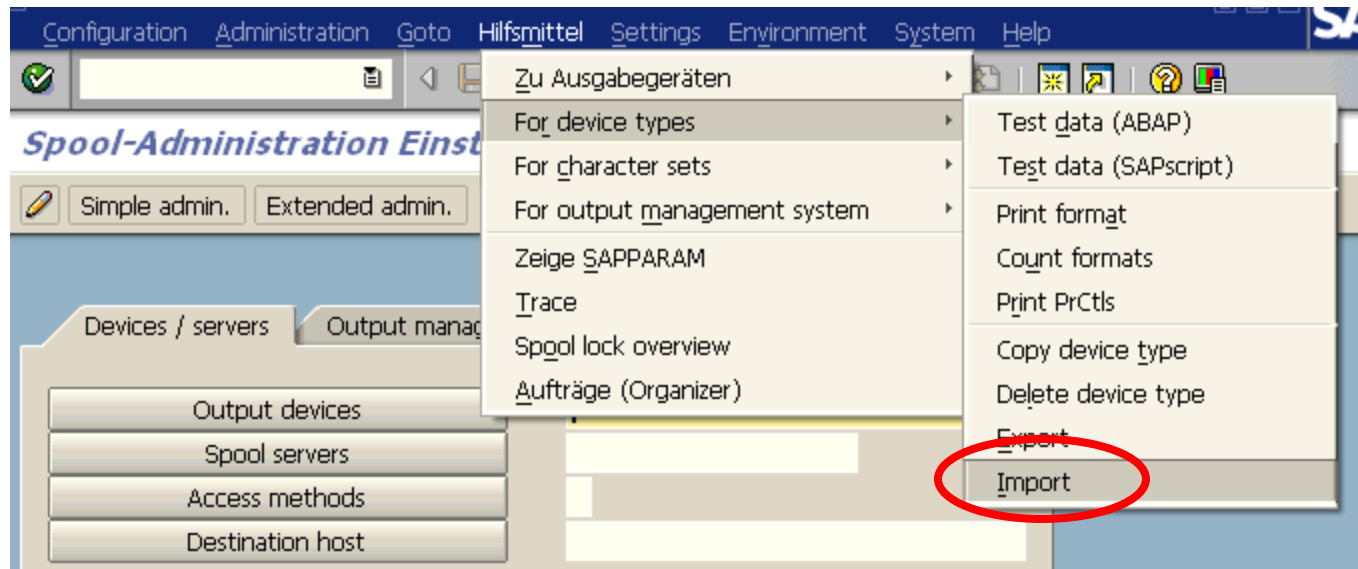
The Save As dialog box shows the file being saved to Local Disk (C:) with the file name ZHPLJ4X.PRI and Save as type (\*.\*) (circled with a red 3).

If your device type export was successful, this screen should be displayed.

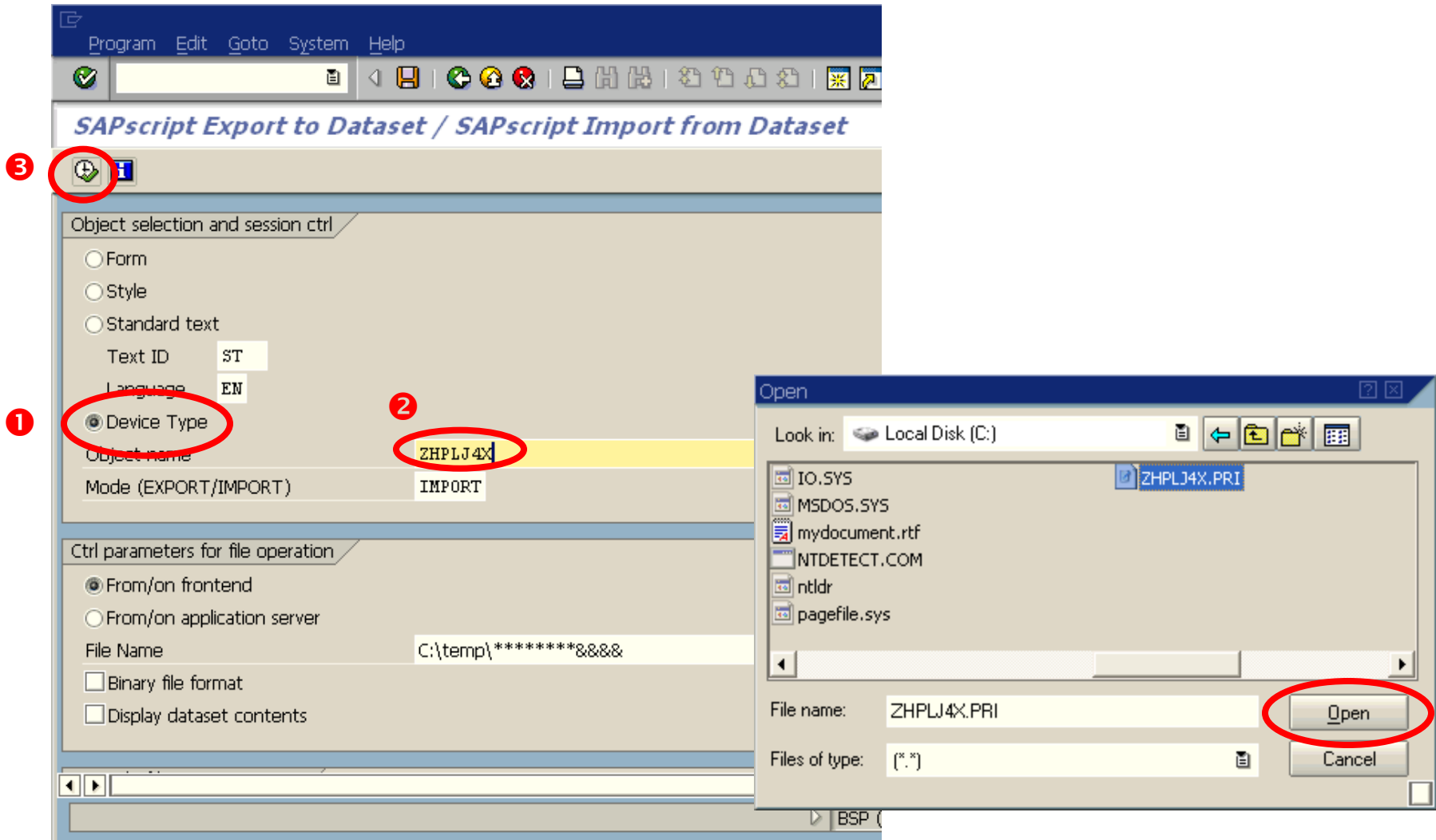
```
SAPscript Export to Dataset / SAPscript Import from Dataset

26.04.2007 SAPscript Export to Dataset / SAPscript Import from Dataset      1
***** Start SAPscript Transporter RSTXR3TR *****
Transport object PRIN ZHPLJ4X is being processed
Object was exported
```

# Import a device type



# Import a device type



The image shows two overlapping windows from an SAP system. The main window is titled "SAPscript Export to Dataset / SAPscript Import from Dataset". It has a menu bar (Program, Edit, Goto, System, Help) and a toolbar. The "Object selection and session ctrl" section has radio buttons for "Form", "Style", and "Standard text". The "Device Type" radio button is selected and circled with a red circle labeled "1". Below it, the "Object name" field contains "ZHPLJ4X" and is circled with a red circle labeled "2". The "Mode (EXPORT/IMPORT)" is set to "IMPORT". The "Ctrl parameters for file operation" section has "From/on frontend" selected. The "File Name" field contains "C:\temp\\*\*\*\*\*&&&&". A toolbar at the top left has a green checkmark icon circled with a red circle labeled "3".

The "Open" dialog box is overlaid on the bottom right. It shows the "Look in:" path as "Local Disk (C:)" and a list of files including "IO.SYS", "MSDOS.SYS", "mydocument.rtf", "NTDETECT.COM", "ntldr", and "pagefile.sys". The file "ZHPLJ4X.PRI" is selected. The "File name:" field contains "ZHPLJ4X.PRI" and the "Files of type:" field is set to " (\*.\*)". The "Open" button is circled with a red circle.

If your device type import was successful, this screen should be displayed.

```
SAPscript Export to Dataset / SAPscript Import from Dataset
-----
26.04.2007 SAPscript Export to Dataset / SAPscript Import from Dataset      1
-----
***** Start SAPscript Transporter RSTXR3TR *****
Transport object PRIM ZHPLJ4X is being processed
Object successfully imported
Spooler informed of change
```

Finally assigning this device type to a printer

© stethos Systemhaus GmbH  
Weimarer Strasse 48  
D-71065 Sindelfingen  
Germany

General: <http://www.stethos.com>

ELP: <http://welp.stethos.com>

Support@stethos.com