

SAP

Installing driver and device type



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Carl Valentin is a Silver Member of the SAP Printer Vendor Program and under this program renders support for machine types as provided and the ABAP-PDL driver.

This documentation is an integral part of this support.



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There are various note numbers e.g. (SAP note 1280910) in the following descriptions.

These note numbers can be used in the SAP system to display internal documentation. In the following link, **Number** is to be replaced by the number of the note.

<https://launchpad.support.sap.com/#/notes/Number>

1 Importing Carl Valentin ABAP-PDL Driver and Device Type

The original driver and device types should be used to obtain an optimum result in the printout from SAP on a Carl Valentin printer.

For this purpose, you need to import the drive and then a device type into the SAP system.

1.1 Importing driver

Pay attention to Note 1103422 when installing the ABAP PDL driver.



NOTE!

Whilst the following description should work, however, it cannot be tested on one's own SAP development access.

The PDL driver consists of two PVD files. They are to be copied with the file explorer into the SAP User area. The **Kxxxxxx.PVD** file is to be copied into the **D:\usr\sap\trans\cofile** directory and the **Rxxxxxx.PVD** file into the **D:\usr\sap\trans\data** directory.

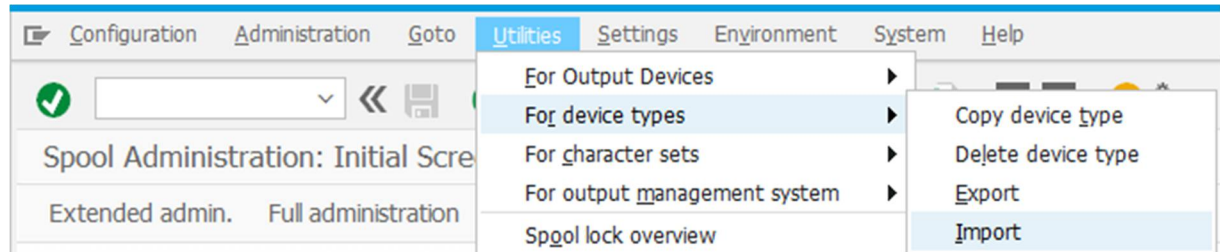
- **Io STMS** is to be started for the installation.
- In the *Overview* menu either *Imports F5* or the truck icon is to be selected.
- Select the import queue wanted (NSP, ECD, ...) in the following dialogue per double-click or with **F2**.
- In the following dialog, select the *Extras – Further orders – Attachments* menu entry.
- With the **F4** search aid, select the number of the transport order(**PVDKxxxxxx**).
- Continue with **Enter** and then **Yes**.
- Highlight the line with the transport order.
- The next dialog is opened through the *Order – Importing* menu.
- Undertake the following entries: **Target client 000**, in the dialog sheet **Schedule Immediate Start**, in the dialog sheet **Execution Synchronously executes** and in dialog sheet **Options** the tick for *Keep transport order for additional import in queue*.
- Continue with **Enter** and **Yes**.

The import is now executed. Ignore any warnings.

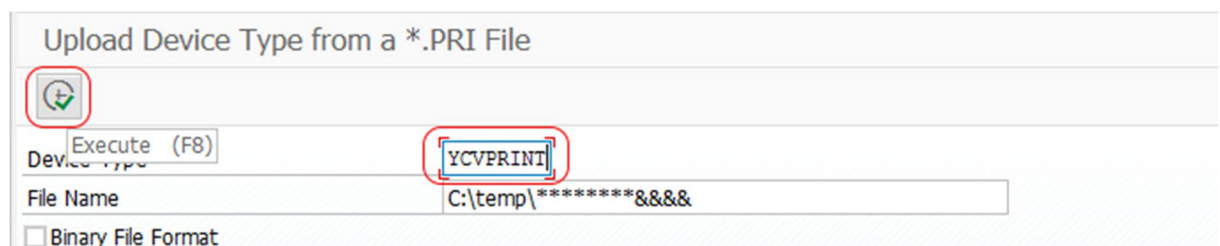
1.2 Importing device type

There are two ways of importing a device type.

1. In the **/o SPAD** transaction using the menu command Utilities – For device types – Import

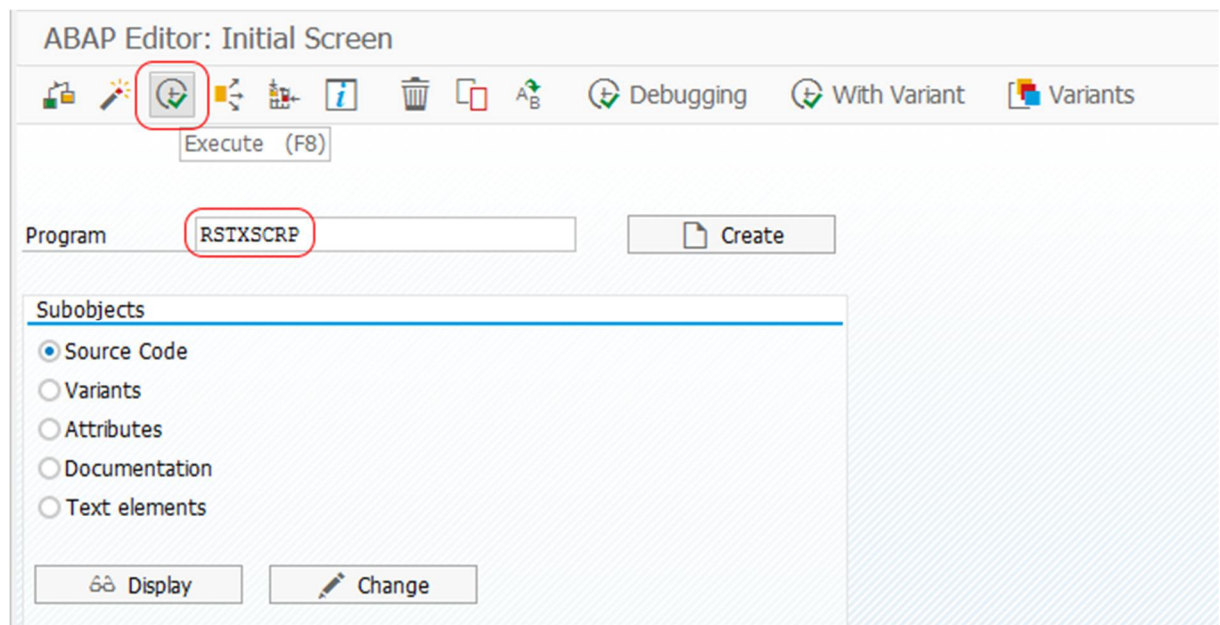


The original device type is to be specified here.

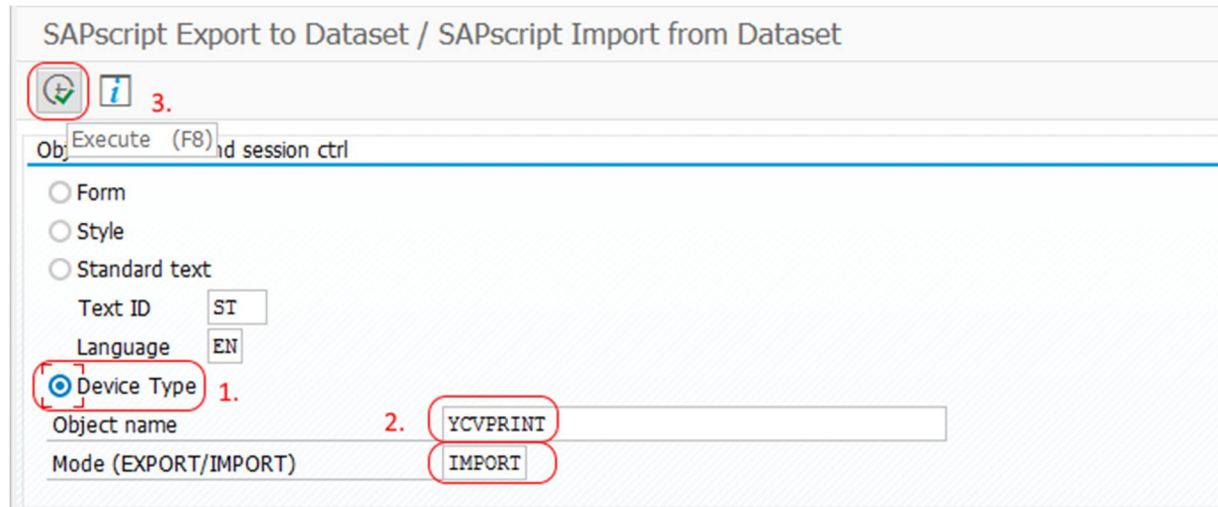


Under *Joint sequence* the further sequence is ... shown below.

2. In the **/o SE38** transaction with Program **RSTXSCR**

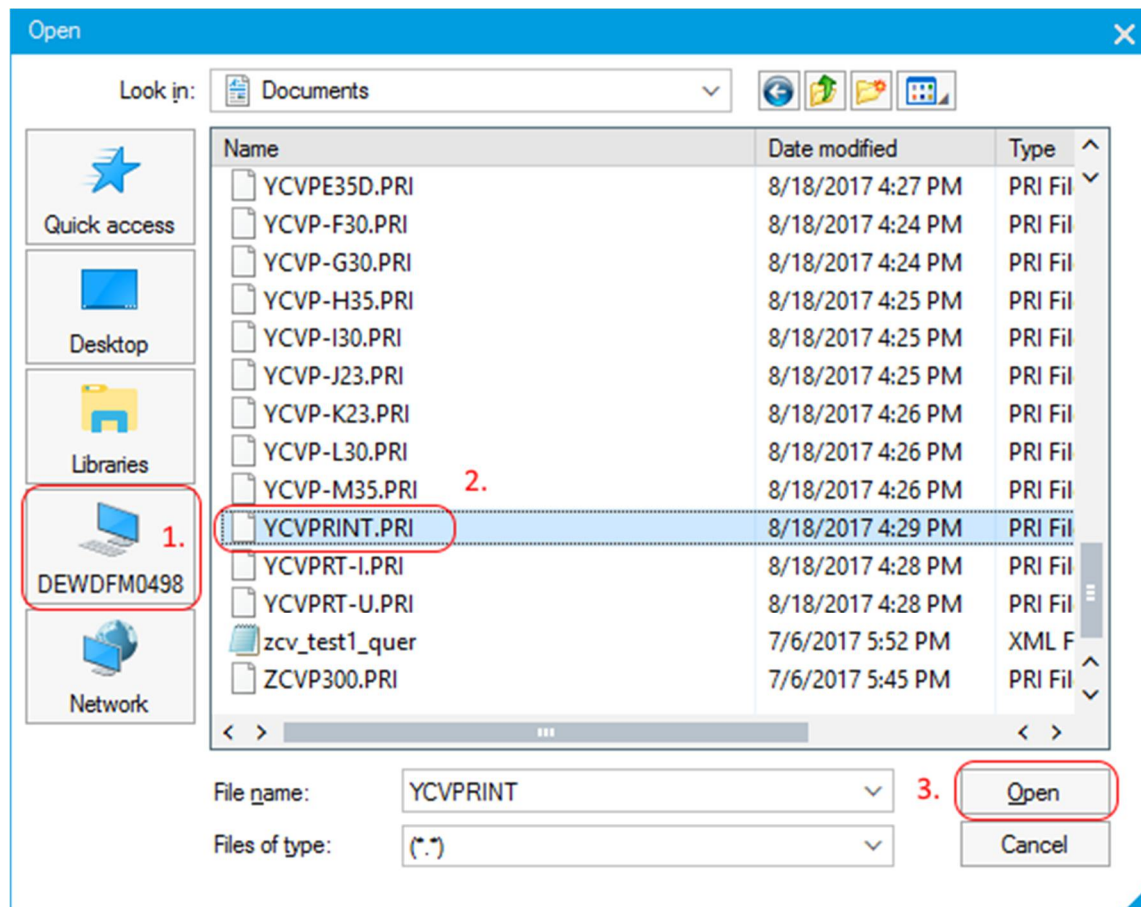


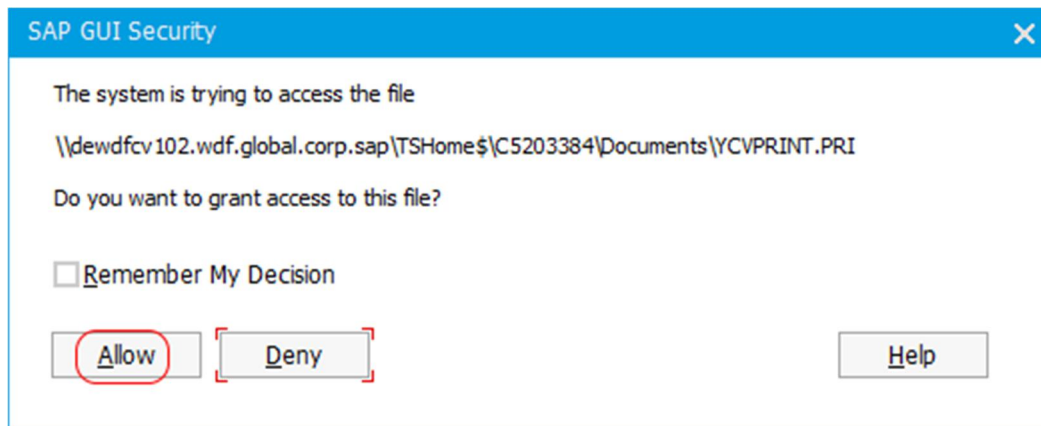
In the following dialog, select the *Device type* option and change the *Mode* to *IMPORT*. Furthermore, the *Object name* of the original YCVPRINT device type is to be specified. Finally, *Execute F8* starts the import.



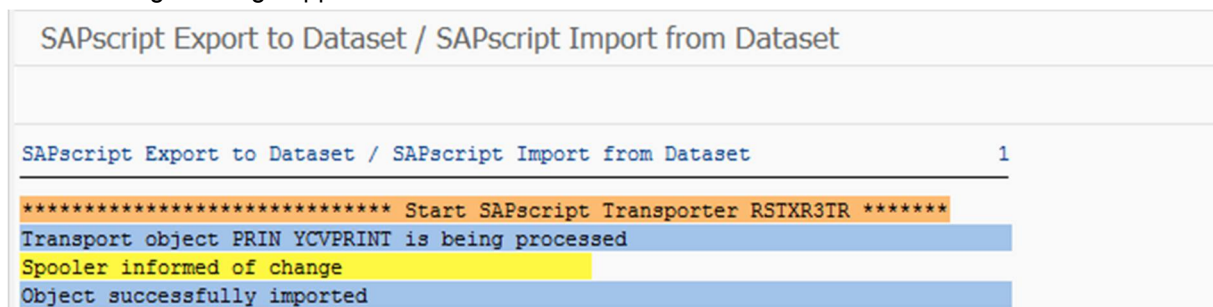
If a query regarding the customers name space appears, confirm it and save it as a local object.

Joint sequence of the two methods:





The following message appears after a few seconds:



The newly imported device type can then be adjusted or copied.

2 Predefined Device Types

Apart from the YCVPRINT or YCVPRT-U (Unicode) and YCVPRT-I (ISO 8859-1) device types generally kept, there are also a number of others which can also be used:

Device type – File	DK width – Resolution Argument	Device name (usable for)
YCVP-A23.PRI	104 mm, 203 DPI A23	All devices with the 103/8 or 104/8 designations
YCVP-B30.PRI	106 mm, 300 DPI B30	All devices with the 106/12 designations
YCVP-B60.PRI	106 mm, 600 DPI B60	All devices with the 106/24 designations
YCVP-C35.PRI	107 mm, 305 DPI C35	All devices with the 107/12 designations
YCVP-C60.PRI	107 mm, 600 DPI C60	All devices with the 107/24 designations
YCVP-D30.PRI	108 mm, 300 DPI D30	All devices with the 108/12 designations
YCVP-E35.PRI	160 mm, 305 DPI E35	All devices with the 160/12 designations
YCVP-F30.PRI	162 mm, 300 DPI F30	All devices with the 162/12 designations
YCVP-G30.PRI	216 mm, 300 DPI G30	All devices with the 216/12 designations
YCVPC35D.PRI	107 mm, 305 DPI C35D	DuoPrint 107/12
YCVPE35D.PRI	160 mm, 305 DPI E35D	DuoPrint 160/12
YCVP-H35.PRI	53 mm, 305 DPI H35	All devices with the 53/12 designations
YCVP-M35.PRI	128 mm, 305 DPI M35	All devices with the 128/12 designations
YCVP-I30.PRI	54 mm, 300 DPI I30	ILX 54/12
YCVP-J23.PRI	56 mm, 203 DPI J23	ILX 56/8
YCVP-K23.PRI	80 mm, 203 DPI K23	ILX 80/8
YCVP-L30.PRI	81 mm, 300 DPI L30	ILX 81/12

The device types listed in this table are also available for ISO 8859-1. Their difference comes about from Ident. Character I, thus YCVI- instead of YCVP-. The only difference to the universal device type is that the argument has already been adjusted.



NOTE!

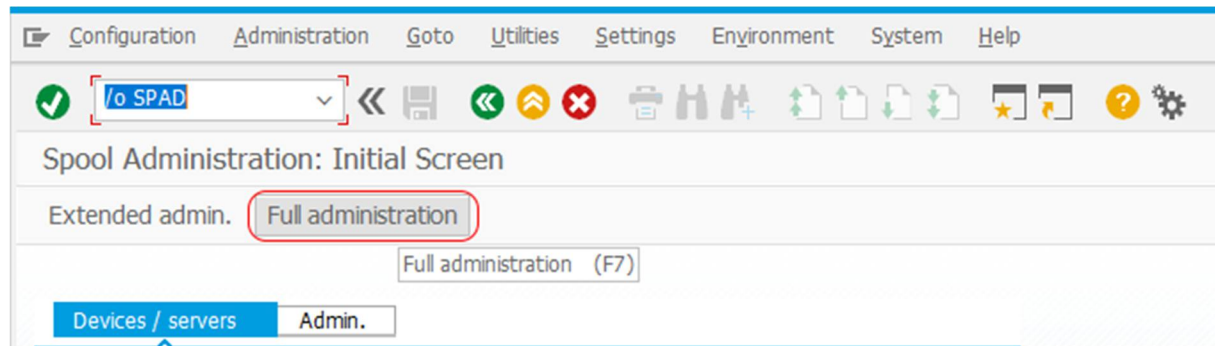
For older device series such as **SPE**, **Spectra**, **DPM III** and **Micra**, as well as **Compa**, **Dynacode**, **SPX**, **Vario II** and **Vita** YCVI- (ISO8859-1 Code page 1100) must be used.

3 Device Type Adaption

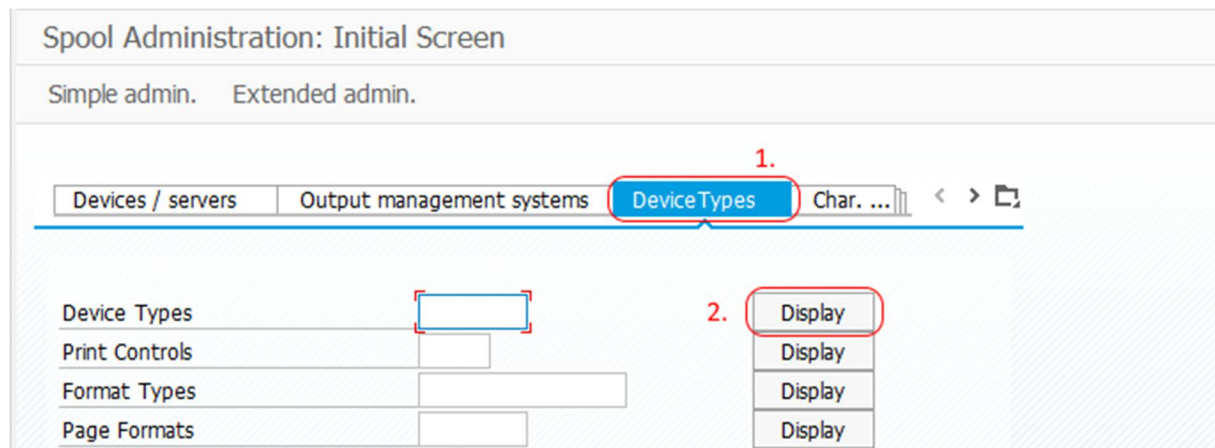
The universal device type comprises all the supported form sizes, font types and barcodes etc. As such, it can be used directly or as the basis for new device types.

3.1 Device Type – Setting print head resolution and width

Open the device type via the **/o SPAD** transaction and *Full administration*.



Select *Device Types* and *Display*.












From the following displayed table, select the device type and confirm with F8.

Afterwards the properties of the device type are indicated.

Set the resolution (dpi) and print head width for the created device type.

Undertake these settings in the *Argument* input box.

Spool Administration: Device Type (Change)

1.       Formats  Formats  PrintControls 

Device type YCVPRINT Name Carl Valentin CVPL universal

Attributes Print Controls

Version 2

SAPscript handling

Driver Carl Valentin ABAP driver CVPL

☒ Page printer

List handling

Printer driver Do not use printer driver for ABAP list print

Argument R30A 2.

Printer character set

1. Character set	4110	Unicode UTF-8
Synt. character set		

The following values are to be used at the moment:

Print head width:

A	104 mm
B	106 mm
C	107 mm
D	108 mm
E	160 mm
F	162 mm
G	216 mm
H	53 mm
I	54 mm
J	56 mm
K	80 mm
L	81 mm
M	128 mm
Others	148 mm (DIN A5)

Resolution:

20	200 dpi
23	203 dpi
30	300 dpi
35	305 dpi
60	600 dpi

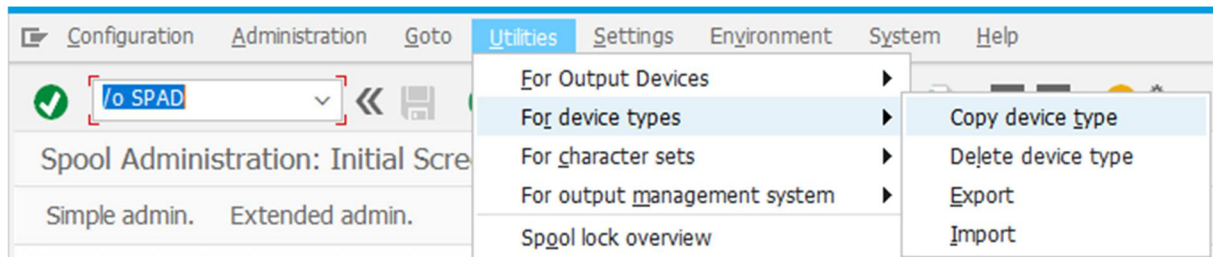
Execution:

A	Reserved
B	Reserved
C	Reserved
D	DuoPrint

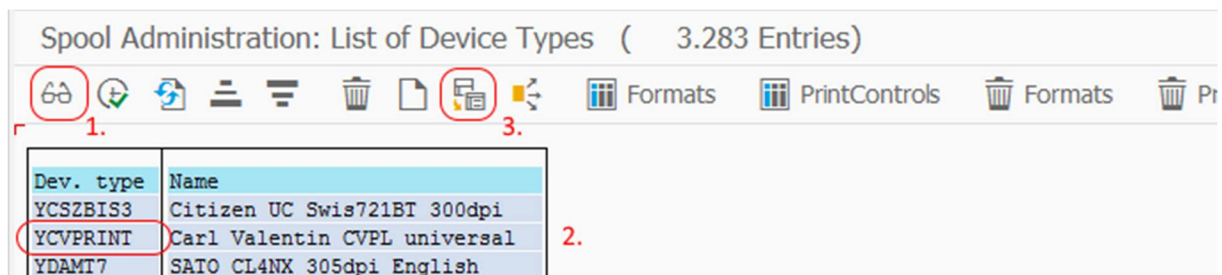
The above displayed C35D value means: 107 mm DK width, 305 dpi, DuoPrint

3.2 Copying device type

Various device types are needed to simultaneously operate a number of printers with different features. As already described, the adaptations for the resolution etc. can be undertaken in the copied device types.



Alternatively, the device type can be marked in the list overview and copied via *Create using template F5*.



Specify a new, clear-cut device type here (beginning with Y or Z) and then click on *Execute* **F8**.


The following warning can be confirmed with Yes.

And here confirmation is, of course, with Yes:























If a question appears, the new type is to be saved as local object.

Afterwards a list is displayed, which has been copied. It now becomes clear from the plethora of data as to why no device type should be simply created anew.























Copy device type	
Copy device type	
Number of data records copied:	
Number	DataType
000001	Device Type
000060	Print Controls
000019	Format types - Overview
000123	(Format Types - Details)
000123	Printer Fonts
033630	Font Metrics
000018	Bar Codes

Quit the dialog via the orange button 

With the list updated (refreshed), the new device type then appears in the list and is editable via **F2**.

Spool Administration: List of Device Types (Change) (3.283 Entr)	
                     	
Dev. type	Name
YCVF-DUO	Carl Valentin CVPL universal
YCVPRINT	Carl Valentin CVPL universal

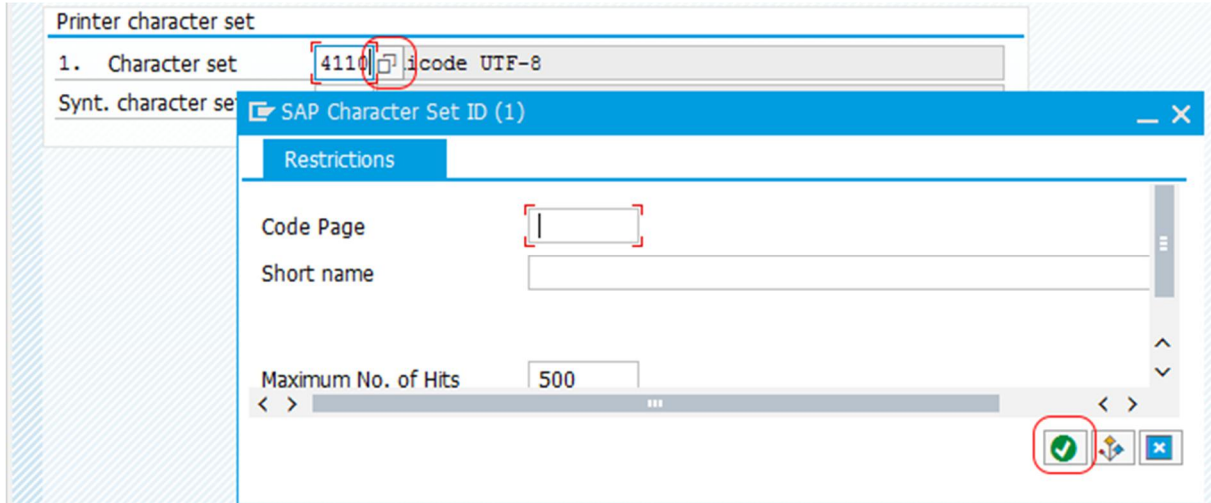
This means that a new *Name* is to be entered and the *Argument* adapted with regard to resolution, width and features:

Spool Administration: Device Type (Change)	
                     	
Device type	YCVF-DUO
Name	Carl Valentin DuoPrint 160/12
<div>Attributes</div> <div>Print Controls</div>	
Version	1
SAPscript handling	
Driver	Carl Valentin ABAP driver CVPL
<input checked="" type="checkbox"/> Page printer	
List handling	
Printer driver	Do not use printer driver for ABAP list print
Argument	D35D
Printer character set	
1. Character set	4110 Unicode UTF-8
Synt. character set	

3.3 Adapting code page

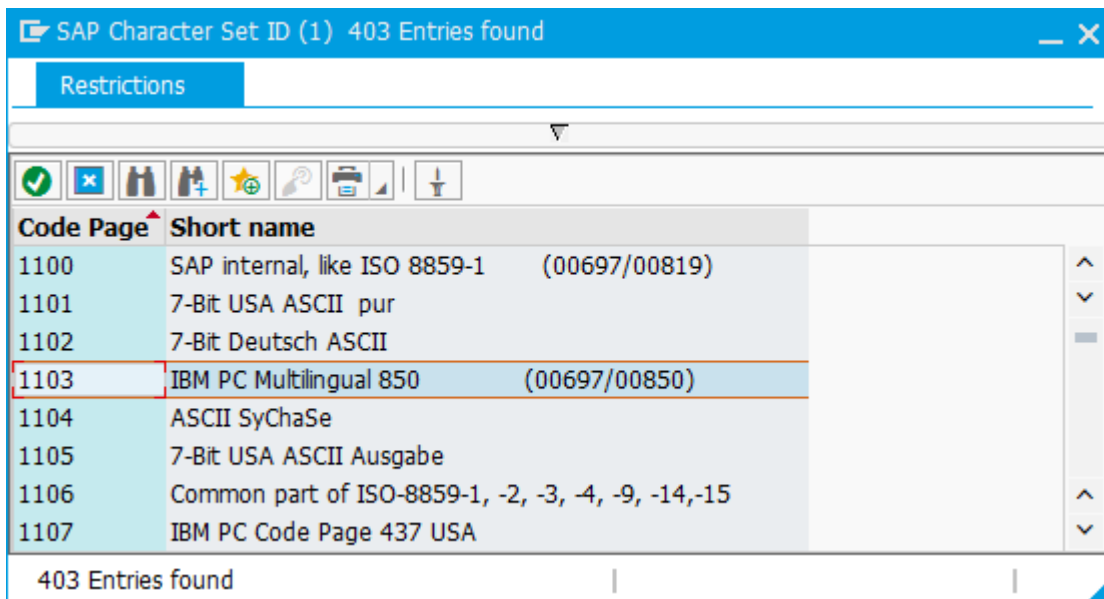
If the code page is to be adapted, firstly click into the input box and then onto the button appearing next to it on the right.

One then continues with *Start Search*:



An appropriate code page can be selected in the following dialog. Ensure here that any non-supported code pages are not diverted to UTF-8.

However, older printer types (SH 2) cannot process UTF-8.



Supported code pages (beside UTF-8 – Code page **4110**):

1100 and **1160** for ANSI (ISO 8859-1), **1107** for CP 437 USA, **1103** for CP 850, **1700-1704** for Greek, **1400-1403** for East European languages and **0611** for Turkish.

3.4 Further adptions

Normally, form sizes (preparations), font types etc. can be adopted without any changes and retained. As the *Print Controls* are not needed, they are not supported.

If wanted, any entries can be deleted or added in the newly generated device type.

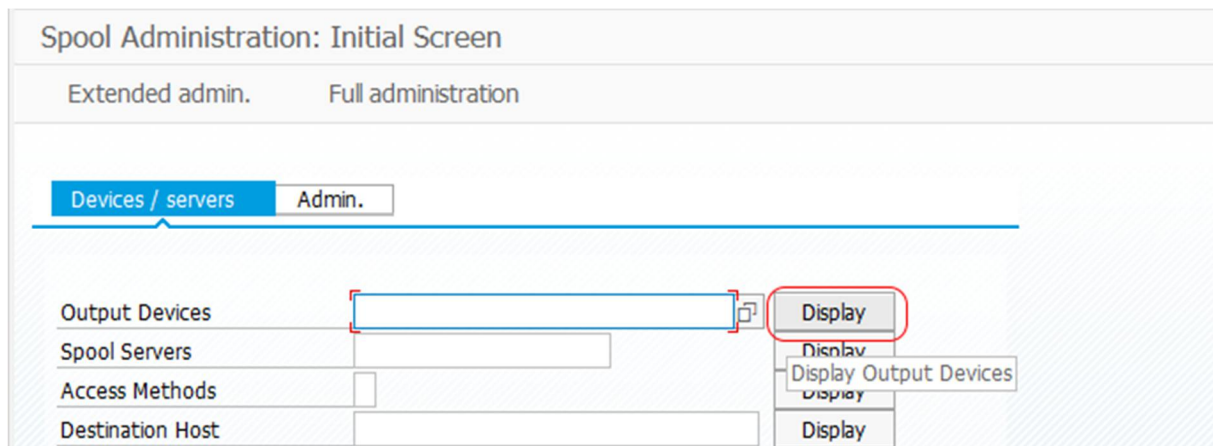
4 Creating New Output Device

A new printer (output device) can also be created in the **/o SPAD** transaction.

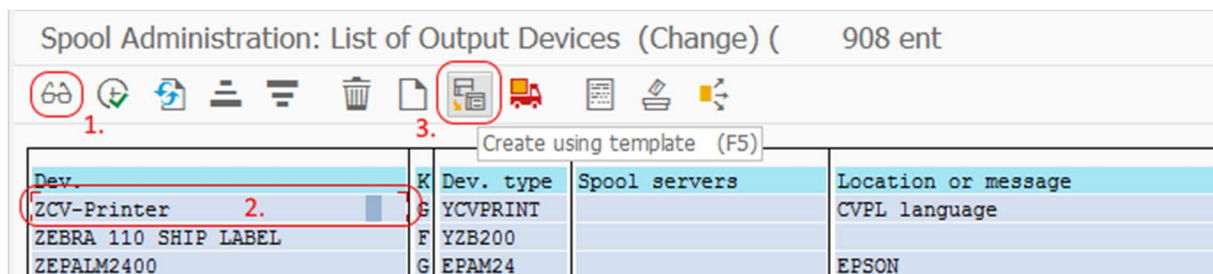
There are two ways of creating a new output device: manually and per Wizard (SAP Note 1036961).

4.1 Manually creating

For this purpose, firstly have the existing output devices displayed.



Select the Valentin printer **ZCV-Printer** there.



Alternatively, a different printer can, of course, be chosen.

Create using template **F5** is for copying the printer and creating a new one.



NOTE!

The recommendation is generally not to create a new printer but only to copy.

To be specified is a new name, short name, possibly a model name and device type newly created beforehand.

Spool Administration: Copy Output Device from

Output Device **ZCV-DuoPrint** Short name **ZCVD**

Description

DeviceAttributes Access Method Output Attributes Tray Info

Device Type **YCVP-DUO : Carl Valentin CVPL universal**


Device Class Standard printer

Authorization Group

Model **DuoPrint**

Location

Message CVPL language

The new output device is then to be saved 

The printer (output device) is now firmly linked with the device type attributes.


4.2 Per Wizard

The first step is identical to that of the manual method.

Spool Administration: Initial Screen

Extended admin. Full administration

Devices / servers Admin.

Output Devices  **Display**

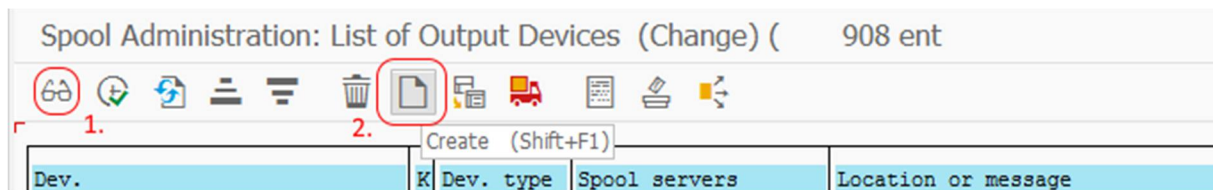
Spool Servers

Access Methods

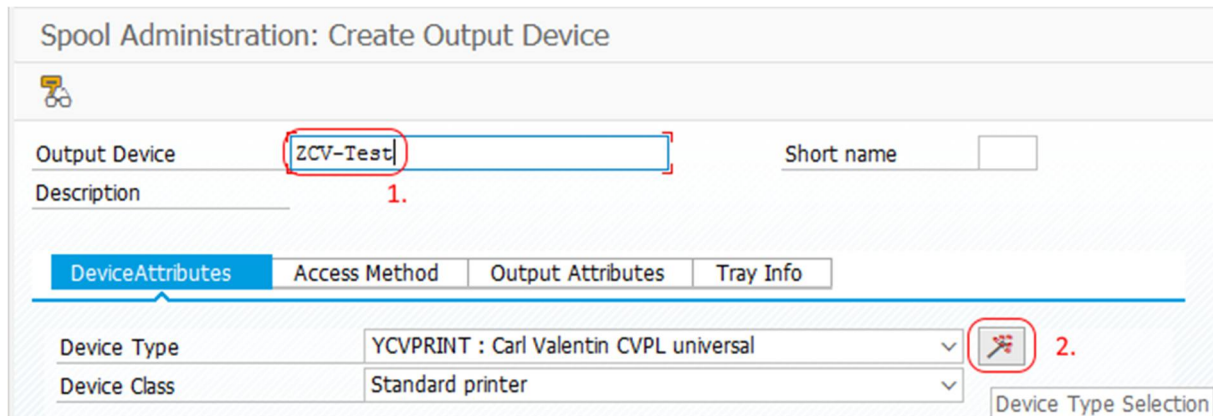
Destination Host

Display
Display Output Devices
Display

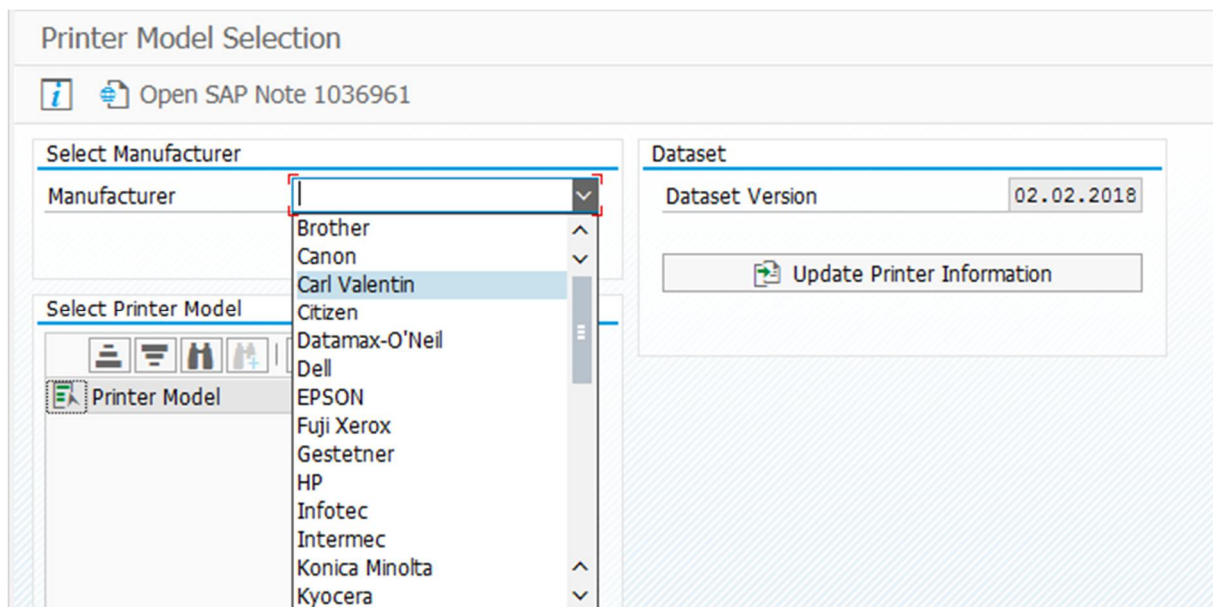
In the output device list, a switch-over is made per F8 to change and then with F5 a new device is created.



Even though it appears non-sensical, an output device must be named before the Wizard can be started.



In the following dialog, select Carl Valentin under *Manufacturer*.



If in one's own system there is no *Carl Valentin* entry, then open Note 1036961 and carry it out.

Thereupon a list with pre-defined printers is opened.

Printer Model Selection

Open SAP Note 1036961

Select Manufacturer

Manufacturer: Carl Valentin

Dataset

Dataset Version: 02.02.2018

Update Printer Information

Select Printer Model

Printer Model

- Compa II 103/8 T
- Compa II 104/8
- Compa II 106/12
- Compa II 106/24
- Compa II 108/12 T
- Compa II 162/12**
- Compa II 162/12 T
- DPM III c53/12
- DPM III xi107/12
- DPM III xi128/12
- DPM III xi53/12
- DuoPrint 107/12
- DuoPrint 160/12

Continue with Language Selection

This is where one selects the printer(s) (keep Ctrl. key pressed) that are possibly to be generated. For this purpose, click into the box in front of the name.

**NOTE!**

Make a note of the printer name as it will not be taken over.

Language Selection for Device Type

Language Selection

Re...

Language

☒ Western European (Latin-1)

☒ Eastern European (Latin-2)

☒ Cyrillic

☐ Arabic

☐ Greek

☐ Hebrew

☐ Turkish (Latin-5)

☐ Chinese, Simplified

☐ Chinese, Traditional

☐ Thai

☐ Japanese

☐ Korean

☐ Vietnamese

☒ Show Available Device Types

Device Type Selection

[Open SAP Note 1036961](#) [Install Device Types](#)

List of Suitable Device Types

Device Type

YCVF-F30 (resident fonts required)

Details

Device Type

YCVF-F30

Driver

YCV1

Manufacturer

Carl Valentin

Printer Model

Compa II 162/12

Remark

See Wizard Note for details

Reference SAP Note

1982755


(resident fonts required)

☒ Assign Device Type to Output Device

Possibility 1

On selecting *Assign device type to output device*, the only thing that happens is adoption of the device type.


Spool Administration: Create Output Device




Output Device Short name

Description

DeviceAttributes Access Method Output Attributes Tray Info

Device Type YCVP-F30 : Carl Valentin 162 mm 300 dpi U 

Device Class Standard printer 

Authorization Group

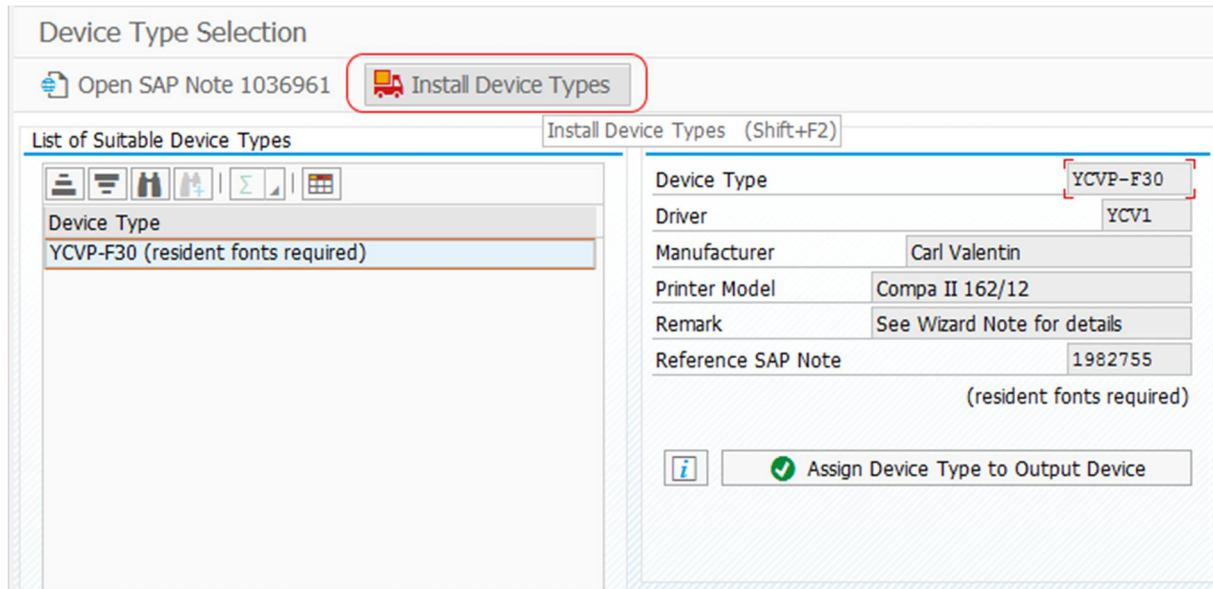
Model

Location

Message

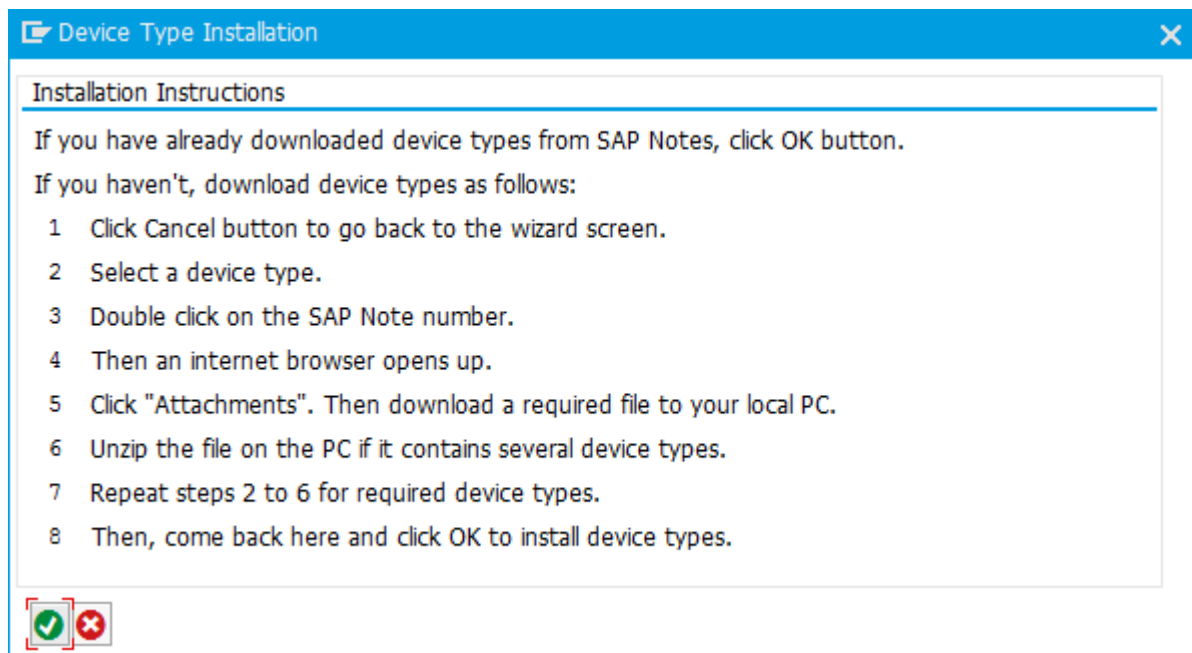
Possibility 2

However, if in the next to last dialog (*Device Type Selection*)) *Install Device Types* is selected, a new device type can be selected. Firstly a note appears.



This note refers to the following executed steps. I.e. at first the device type of the manufacturer must be available on the SAP system of the local PC before they can be installed.

This step should be carried out right at the beginning of this description.



The Wizard method only helps in selecting the correct device type. It does not produce any benefits over and above this.

5 SAP Interactive Forms by Adobe

The ABAP driver cannot be used for the interactive forms. However, the device types can do so.

The printout from the interactive forms involves the printout from PDF files directly from the SAP system. To this end, “xdc drivers” as provided by SAP are needed. xdc drivers are XML files (XML Forms Architecture (XFA) Device Configuration) in which a printer description is saved. ZPL-II is used for this.

This means that only the ZPL emulation - which needs to be activated in the respective printer - effects the printout from interactive forms.

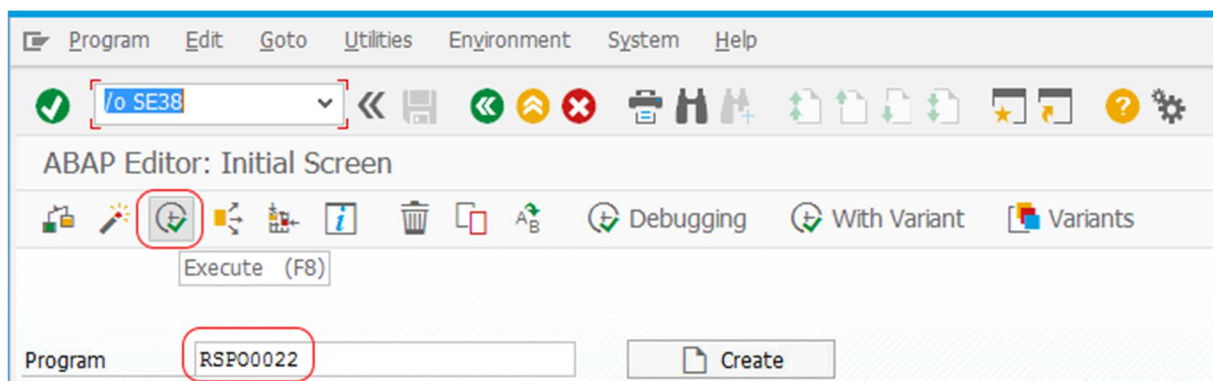
The functional differences between the Smart Forms and Interactive Forms Adobe are presented in Note 1009567.

Also refer to Note 685571.

5.1 Assigning device types

An xdc driver must be assigned to a Valentin device type before it can be directly used in Interactive Forms.

For this purpose, the **/o SE38** transaction of the **RSP00022** report is to be retrieved and F8 carried out.



Only the first two entries are of interest in the following list. They serve as the basis for assigning to one's own device types.

Report for XDC Assignment

XDC Administration

Assignment of XDC File Name to SAP Device Type (Top Table)

If no XDC name is assigned to a device type, the standard assignment is used in accordance with the printer language (bot

Currently Defined Assignments of Device Type to XDC Name

Device Type	Printer Language	XDC Name (Black/White)	B/W XDC Type	XDC Name (Color)	Color XDC Type	Description
AZPL203	ZPL-II	zpl203.xdc	zpl	zpl203.xdc	zpl	
AZPL300	ZPL-II	zpl300.xdc	zpl	zpl300.xdc	zpl	
CNA355P	PCL	hppcl5e.xdc	pcl	hppcl5e.xdc	pcl	

From one's own list of the device types (see Section: *Predefined device types*), the name of the appropriate device is to be found, e.g.

YCVF-F30 for all devices with designations 162/12 for Unicode and/or YCVI-F30 for ISO8859-1.

Firstly highlight the line with AZPL203 (203 dpi) or AZPL300 (300 dpi). 300 dpi are for the YCVF-F30 device type.

Report for XDC Assignment

XDC Administration

Assignment of XDC File Name to SAP Device Type (Top Table)

If no XDC name is assigned to a device type, the standard assignment is used in accordance with the printer language (bot

Currently Defined Assignments of Device Type to XDC Name

Device Type	Printer Language	XDC Name (Black/White)	B/W XDC Type	XDC Name (Color)	Color XDC Type	Description
AZPL203	ZPL-II	zpl203.xdc	zpl	zpl203.xdc	zpl	
AZPL300	ZPL-II	zpl300.xdc	zpl	zpl300.xdc	zpl	

New XDC Assignment (Template)

New is for continuing:

Enter a device type and the XDC name

Device Type: YCVF-F30

XDC Name: zpl300.xdc

Type of XDC File: zpl

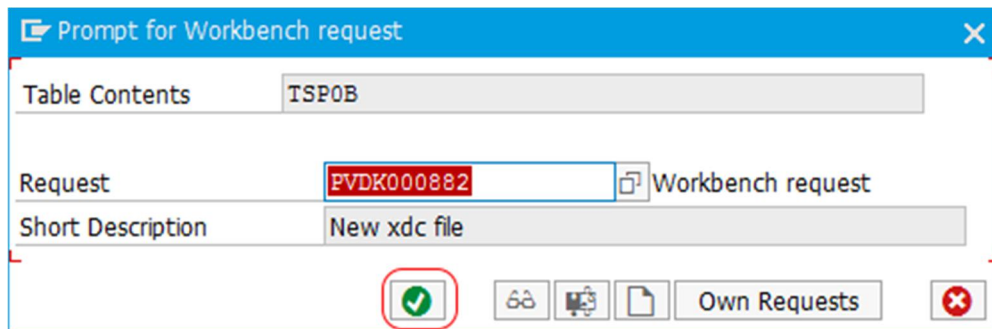
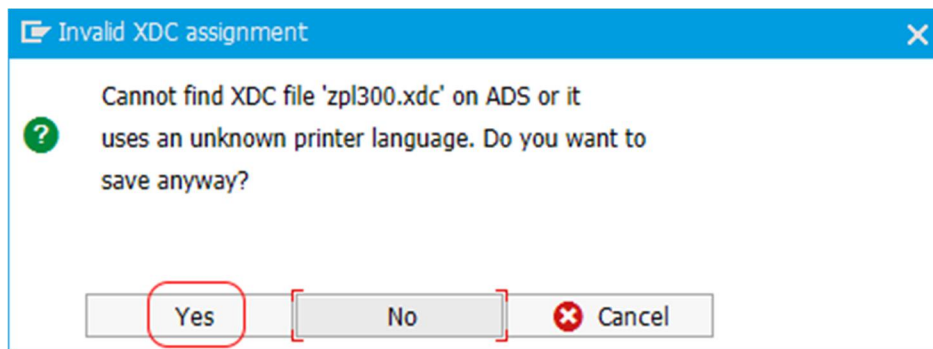
☐ Different XDC File for Color Printing

Description: ZPL Emulation for Carl Valentin 162 mm 300 dpi U

✓ ✗

The Valentin device is not present in the device type list. The name is therefore entered directly. A description can also be made.

Confirmation is to be given to the following note that may appear.



The new entry should now appear in the list.

Report for XDC Assignment

XDC Administration

Assignment of XDC File Name to SAP Device Type (Top Table)

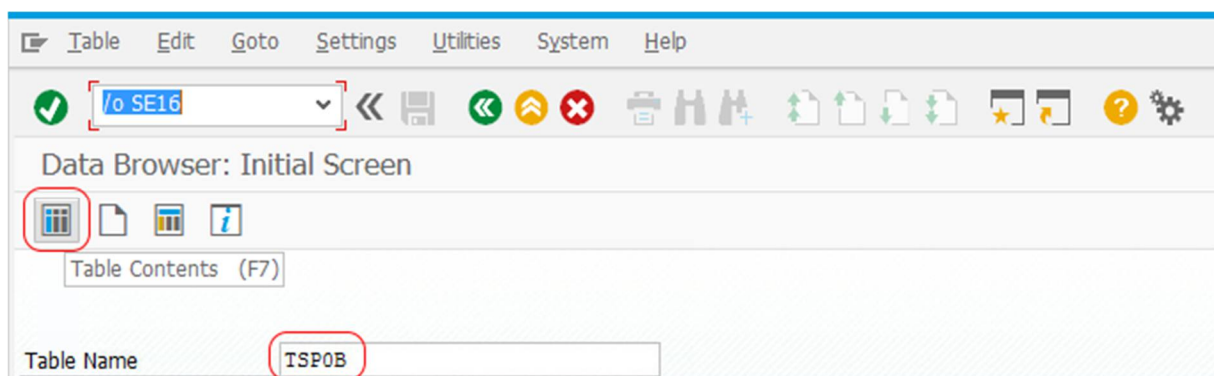
If no XDC name is assigned to a device type, the standard assignment is used in accordance with the printer language (bottom table)

Currently Defined Assignments of Device Type to XDC Name


Device Type	Printer Language	XDC Name (Black/White)	B/W XDC Type	XDC Name (Color)	Color XDC Type	Description
TTC4111	PCL	hppcl5c.xdc	pcl	hppcl5c.xdc	pcl	
TTI3111	PCL	hppcl5c.xdc	pcl	hppcl5c.xdc	pcl	
YCVF-F30	Other	zpl300.xdc	zpl	zpl300.xdc	zpl	ZPL Emulation for Carl Valentin 162 mm 300dpi U

The device type can now be selected in the Interactive Forms and used.

To check: Via the **/o SE16** transaction and the **TSP0B** table, a check can be made on whether the device type has been adopted using F8.



The newly created association between device type and xdc file must be on hand in the table.

Data Browser: Table TSP0B Select Entries 64	
	
Table: TSP0B	
Displayed Fields: 2 of 6	Fixed Columns: [1] List Width 0250
PATYPE	XDCNAME
<input type="checkbox"/> SAPWIN	acrobat6.xdc
<input type="checkbox"/> TTC4I11	hppcl5c.xdc
<input type="checkbox"/> TTI3I11	hppcl5c.xdc
<input type="checkbox"/> YCVF-F30	zpl300.xdc
<input type="checkbox"/> YPTPOST	ps_plain.xdc

5.2 Binary colour print per PDF

The binary colour print does not function since with Interactive Forms printing is done directly via the ZPL emulation.

It must be ensured, however, if printing is done on a binary colour printer (DuoPrint) that a PDF file is created and printed out from the Windows system through the Valentin printer driver e.g. from the Acrobat-Reader (Note 834573).

See Notes 1444342 and 1672781.

5.3 Printing out a number of copies per PDF

It seems that when a number of copies are printed from the Interactive Forms that a print order on its own or an extra page is generated for each copy. Thus possibly results in a longer calculating and transfer time for large labels.

The detour by way of the printout from the Acrobat Reader and the Valentin Windows printer driver can put things right here. In this case, the number of copies in the Interactive Forms should be set to 1. Afterwards, the required number of copies is set in the Acrobat Reader. In the printer driver, as an alternative, the *Number of copies* in the *Layout – Size* can be set to *manual* and to the required number.



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