valentin DRUCKSYSTEME

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.

Carl Valentin GmbH

PO Box 3744
78026 Villingen-Schwenningen
Neckarstraße 78 – 86 & 94
78056 Villingen-Schwenningen

Phone +49 7720 9712-0
Fax +49 7720 9712-9901

E-mail info@carl-valentin.de
Internet www.carl-valentin.de

Table of Contents

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.

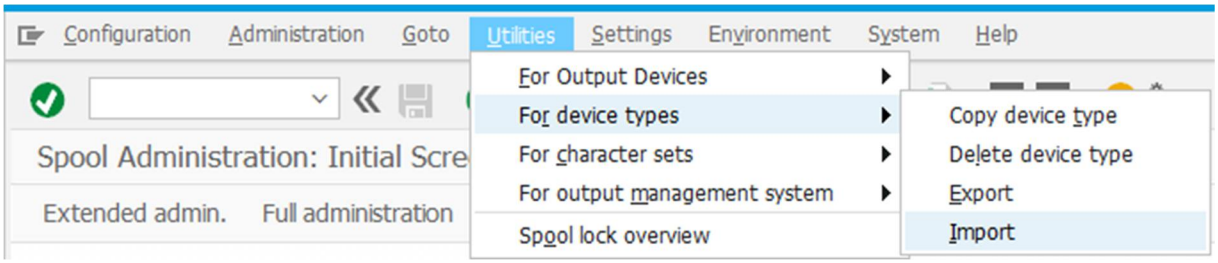
- **/o STMS** is to be started for the installation.
- In the *Overview* menu either *Imports* **F5** or the truck icon is to be selected.
- Select the import queue wanted (NSP, ECD, …) in the following dialogue per double-click or with **F2**.
- In the following dialog, select the *Extras – Further 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.

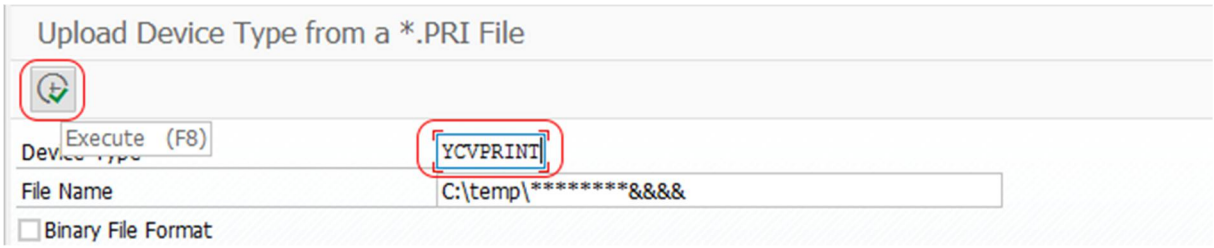
1.2 Importing device type

There are two ways of importing a device type.

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

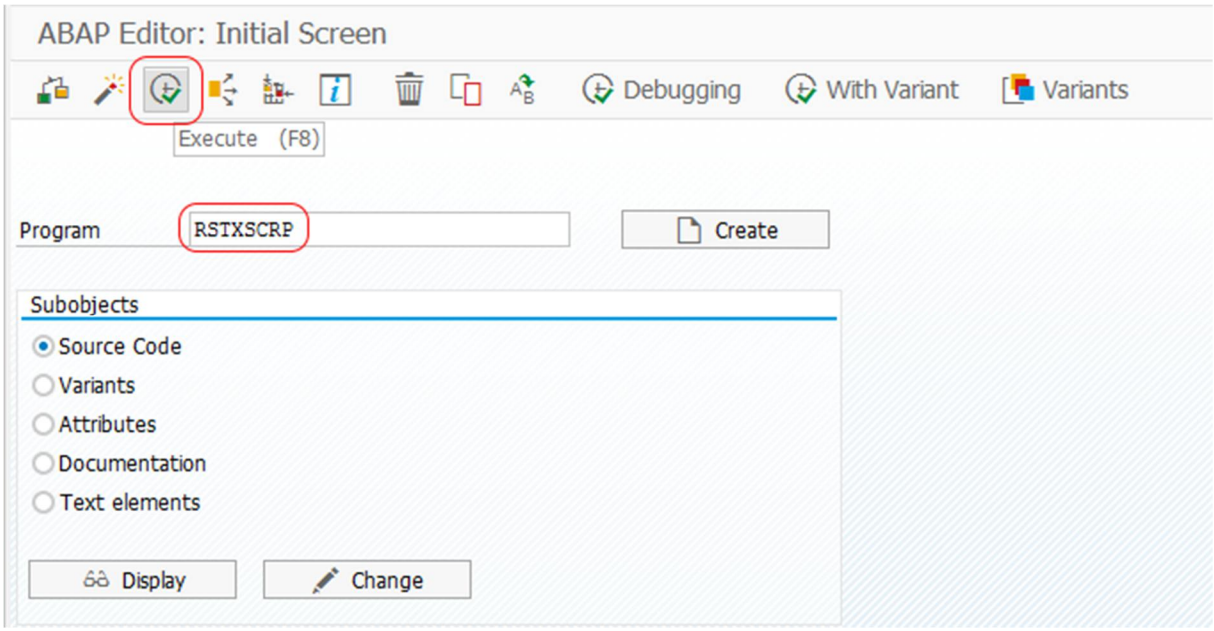


The original device type is to be specified here.

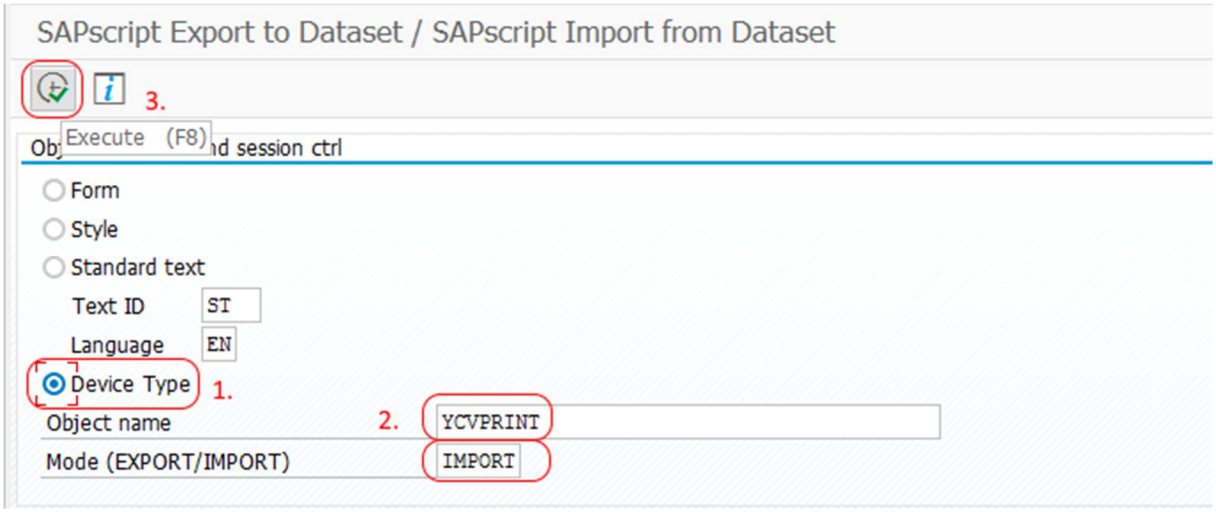


Under *Joint sequence* the further sequence is … shown below.

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

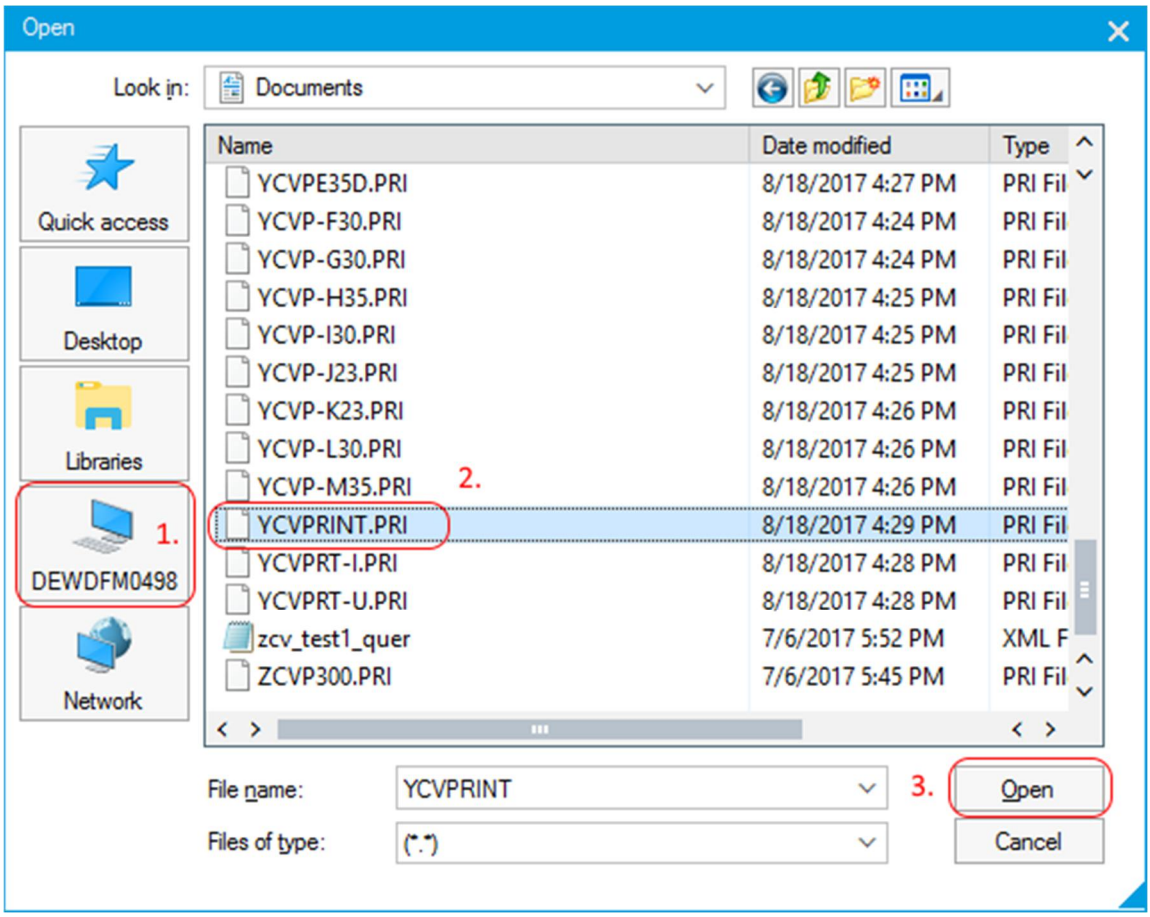


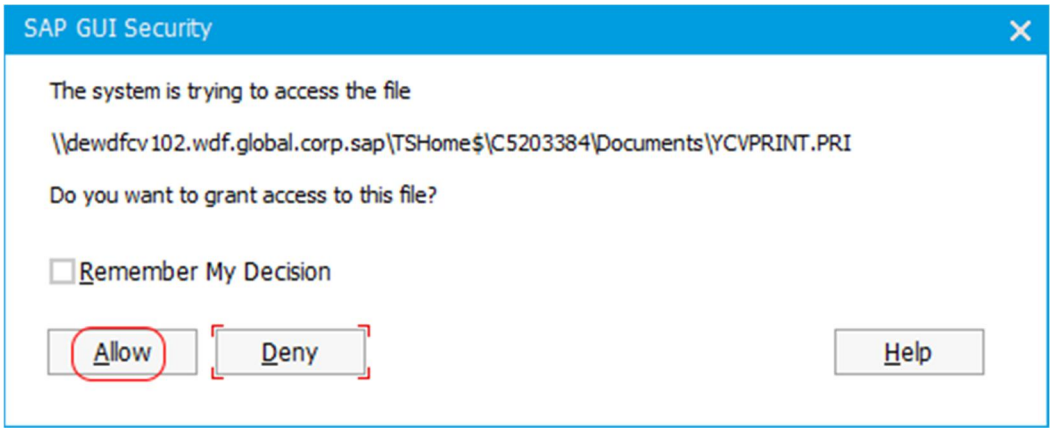
In the following dialog, select the *Device type* option and change the *Mode* to *IMPORT*. Furthermore, the *Object name* of the original YCVPRINT device type is to be specified Finally, *Execute* **F8** starts the import.



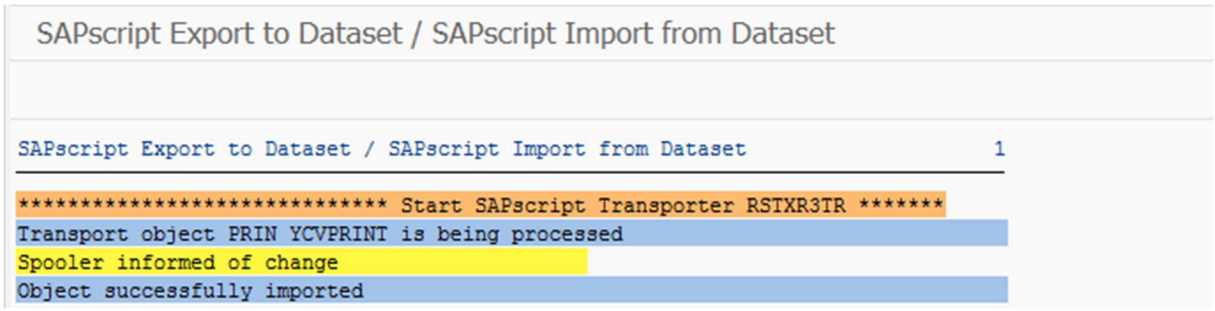
If a query regarding the customers name space appears, confirm it and save it as a local object.

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!

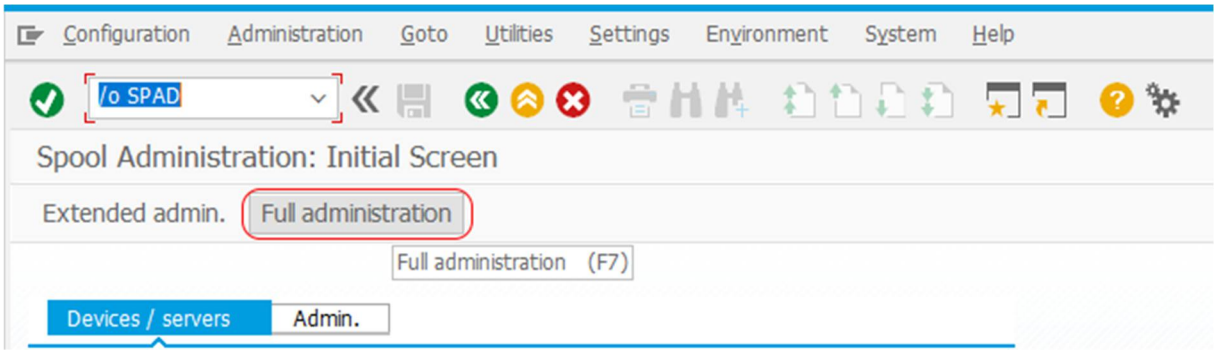
For older device series such as **SPE**, **Spectra**, **DPM III** and **Micra,** as well as **Compa**, **Dynacode**, **SPX, Vario II** and **Vita** YCVI- (ISO8859-1 Code page 1100) must be used.

3 Device Type Adaption

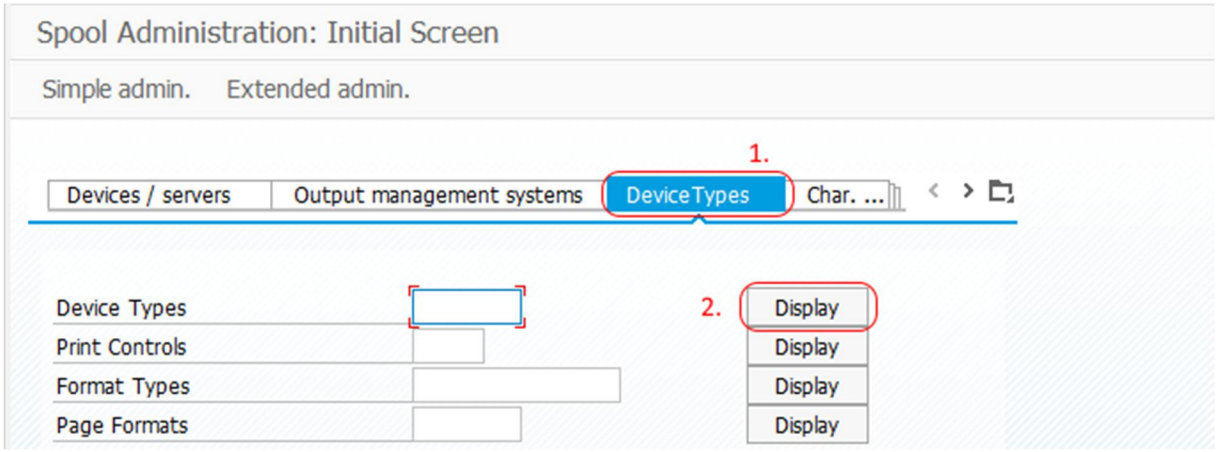
The universal devoice type comprises all the supported form sizes, font types and barcodes etc. As such, it can be used directly or as the basis for new device types.

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*.

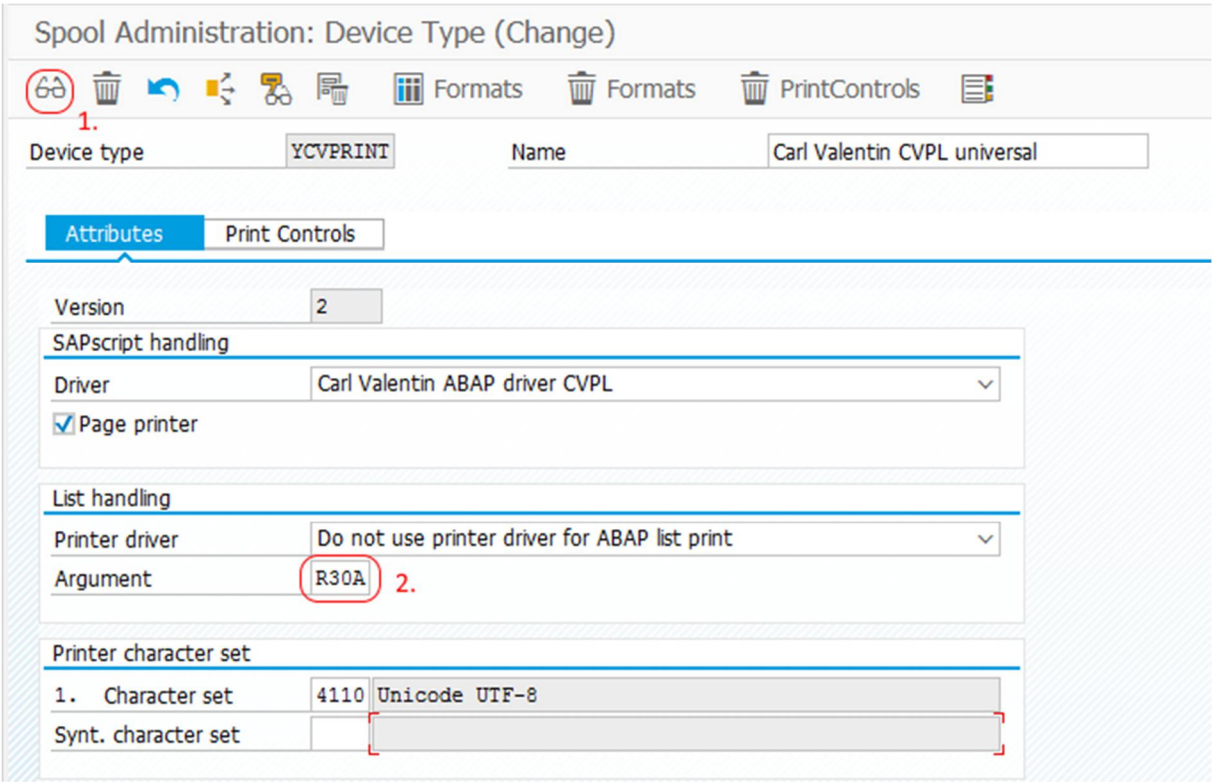


From the following displayed table, select the device type and confirm with F8.

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.



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

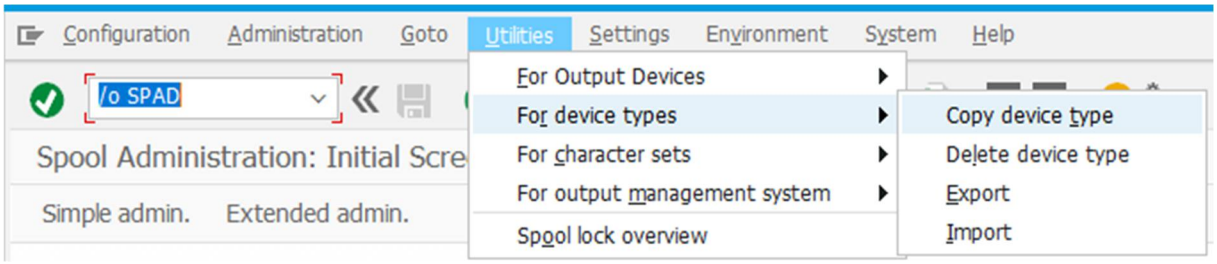
Execution:

A	Reserved
B	Reserved
C	Reserved
D	DuoPrint

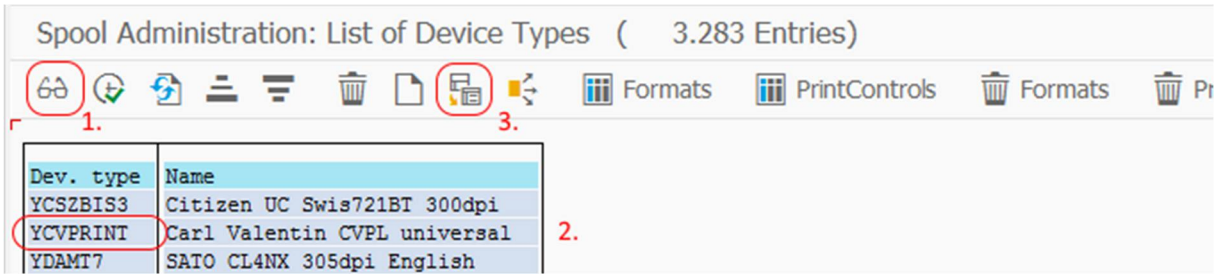
The above displayed C35D value means: 107 mm DK width, 305 dpi, DuoPrint

3.2 Copying device type

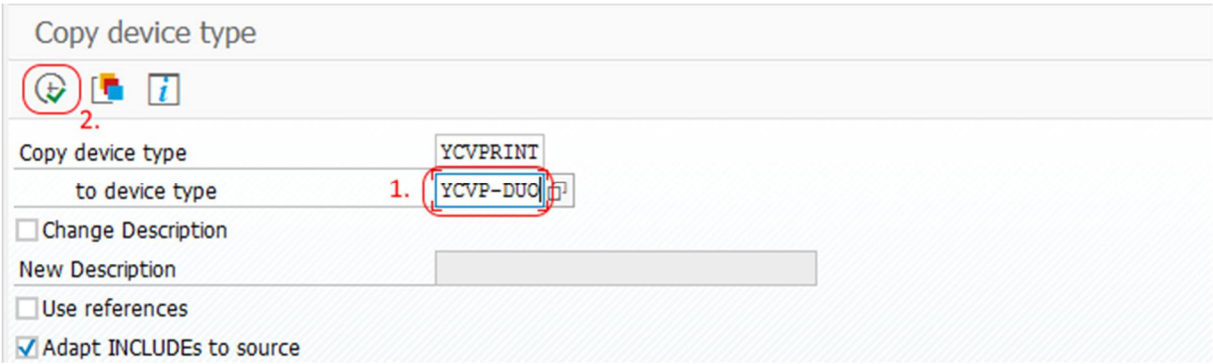
Various device types are needed to simultaneously operate a number of printers with different features. As already described, the adaptions for the resolution etc. can be undertaken in the copied device types.



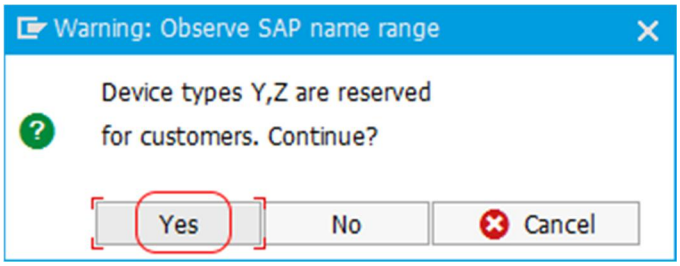
Alternatively, the device type can be marked in the list overview and copied via *Create using template* **F5**.



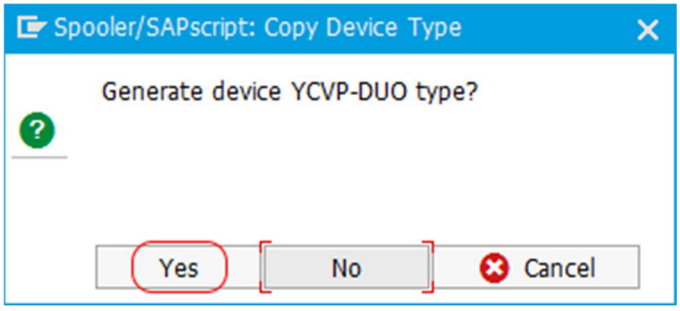
Specify a new, clear-cut device type here (beginning with Y or Z) and then click on *Execute* **F8**.



The following warning can be confirmed with *Yes*.



And here confirmation is, of course, with *Yes*:

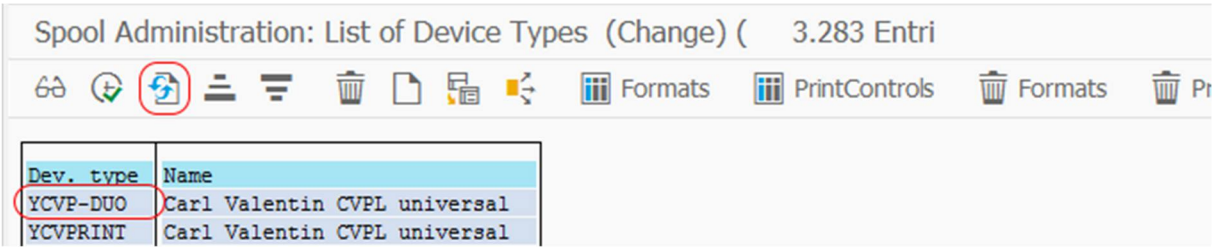


If a question appears, the new type is to be saved as local object.

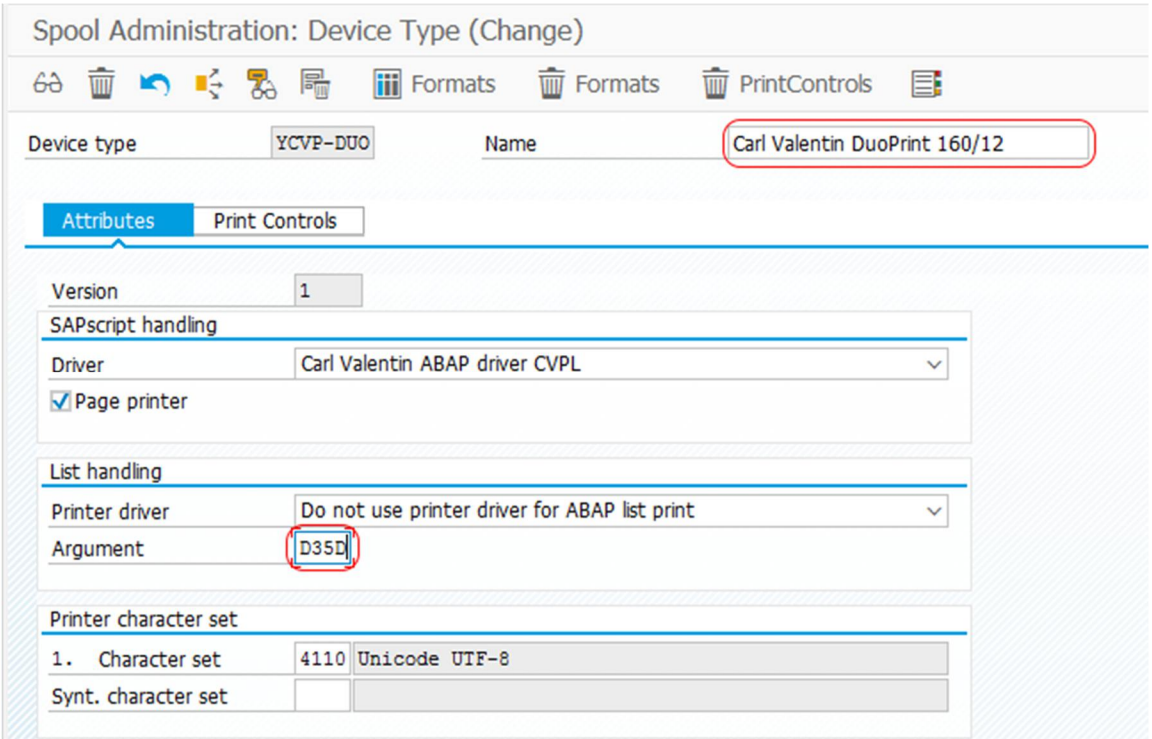
Afterwards a list is displayed, which has been copied. It now becomes clear from the plethora of data as to why no device type should be simply created anew.

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**.



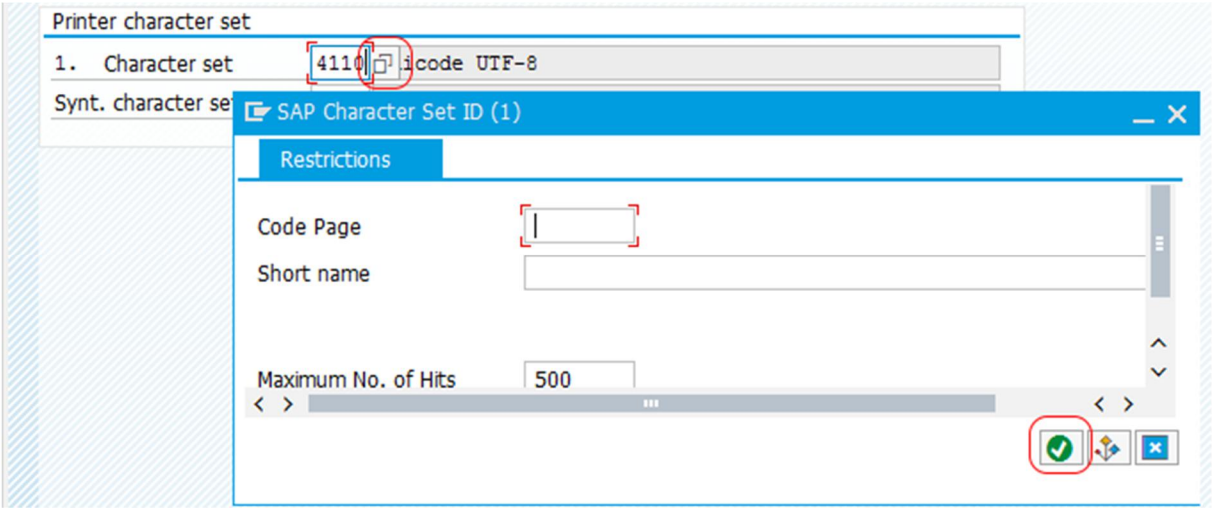
This means that a new *Name* is to be entered and the *Argument* adapted with regard to resolution, width and features:



3.3 Adapting code page

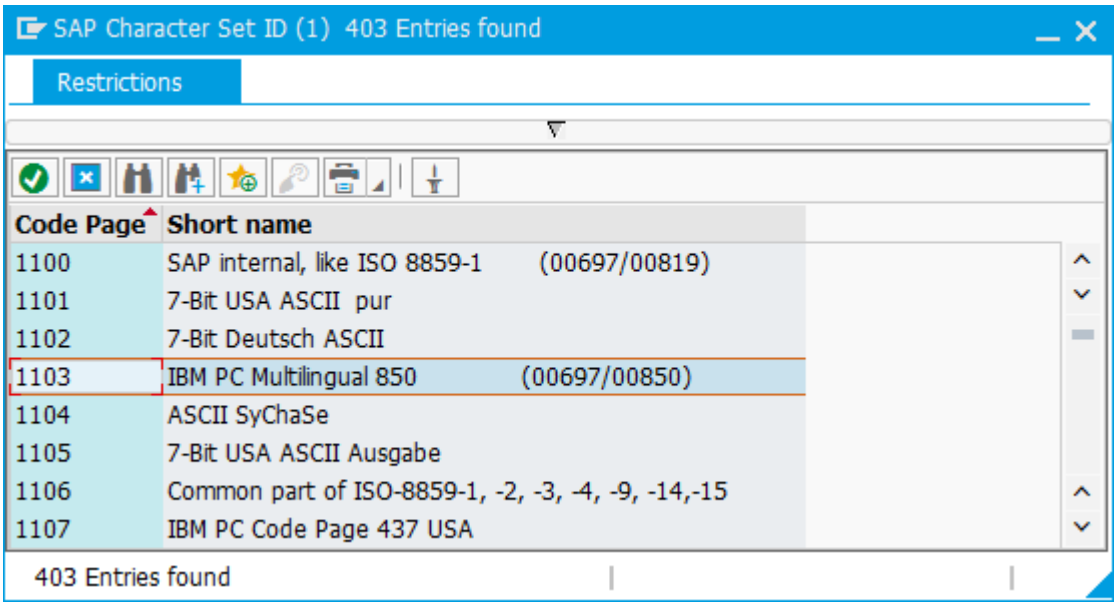
If the code page is to be adapted, firstly click into the input box and then onto the button appearing next to it on the right.

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 adaptions

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.

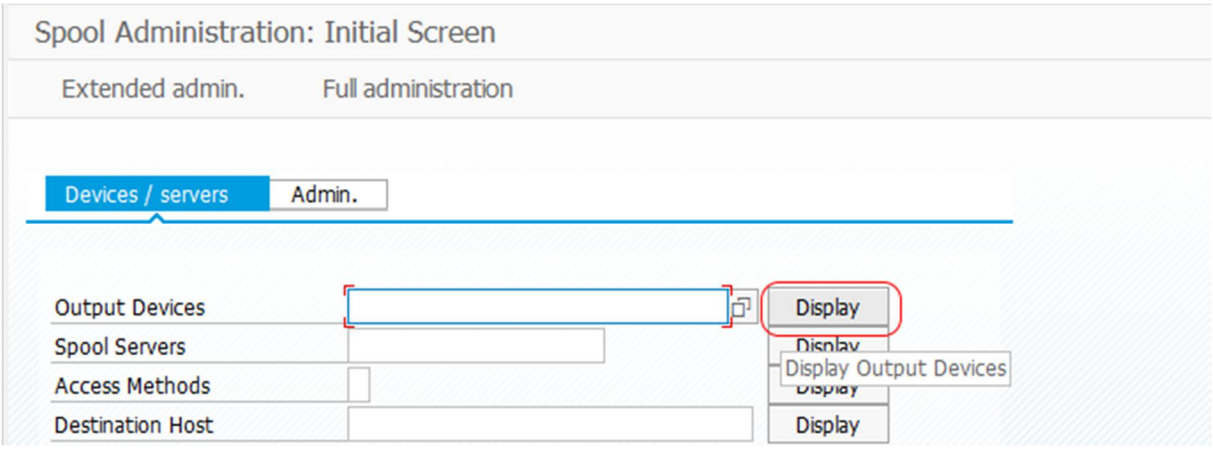
4 Creating New Output Device

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

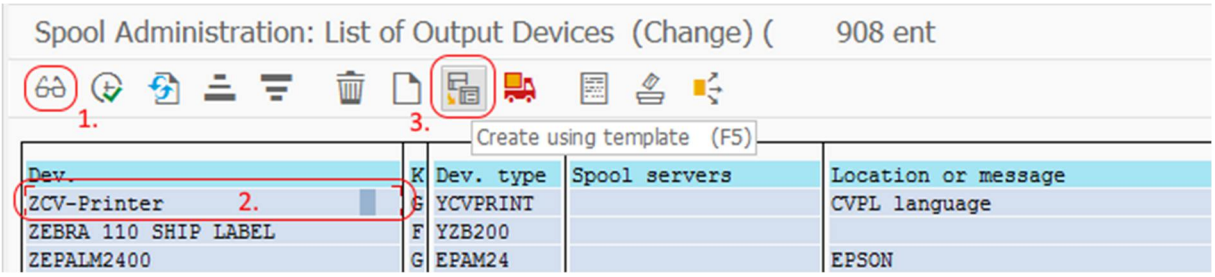
There are two ways of creating a new output device: manually and per Wizard (SAP Note 1036961).

4.1 Manually creating

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



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



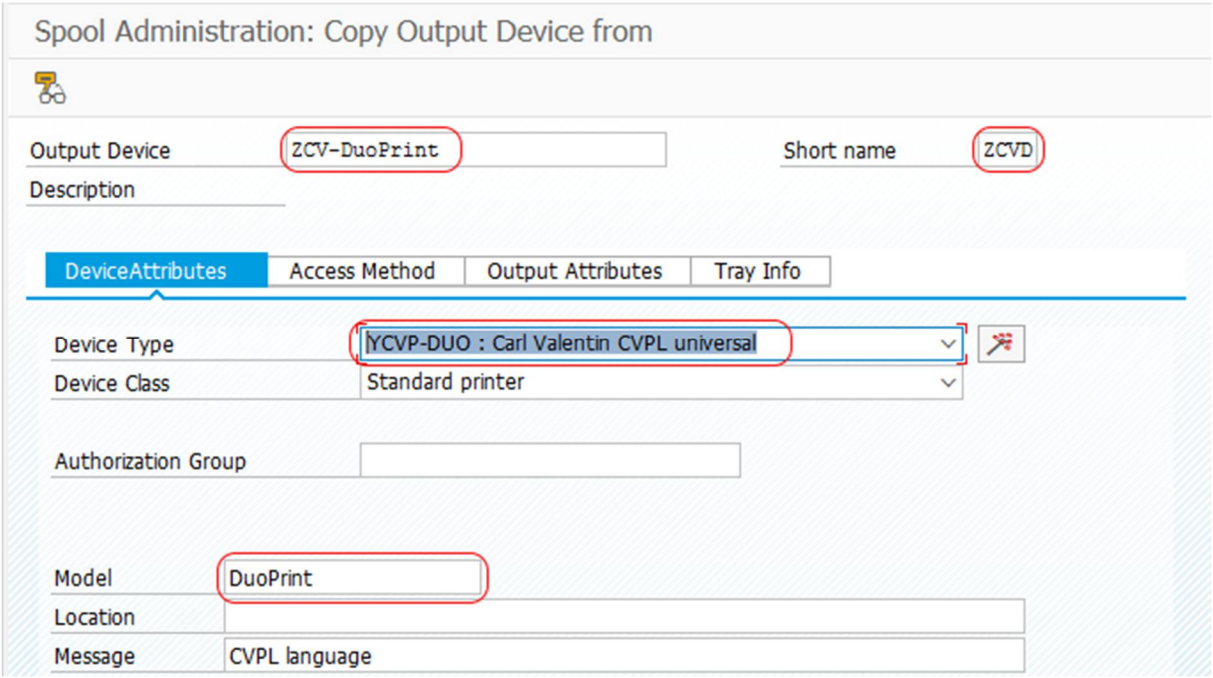
Alternatively, a different printer can, of course, be chosen.

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.

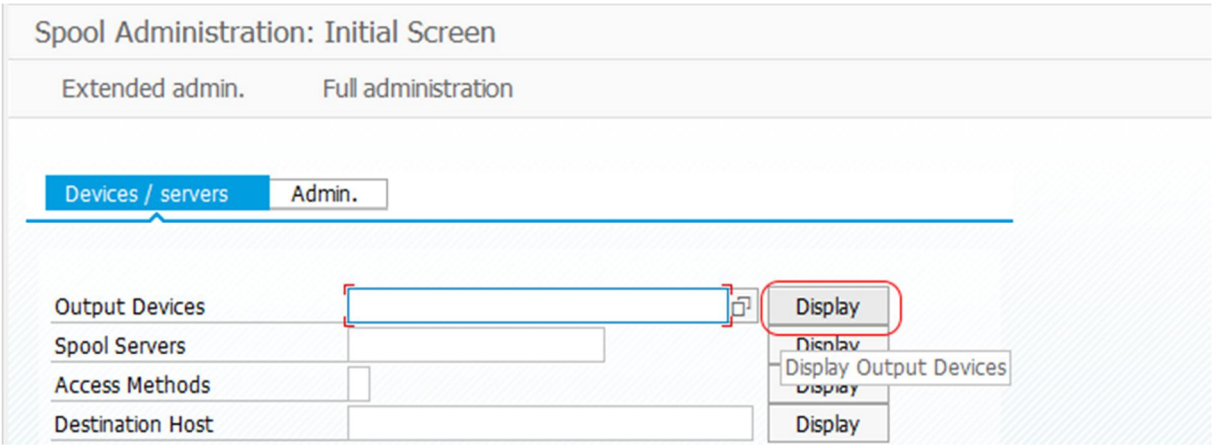


The new output device is then to be saved

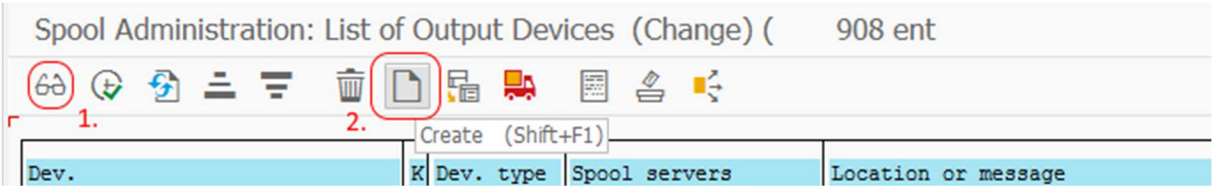
The printer (output device) is now firmly linked with the device type attributes.

4.2 Per Wizard

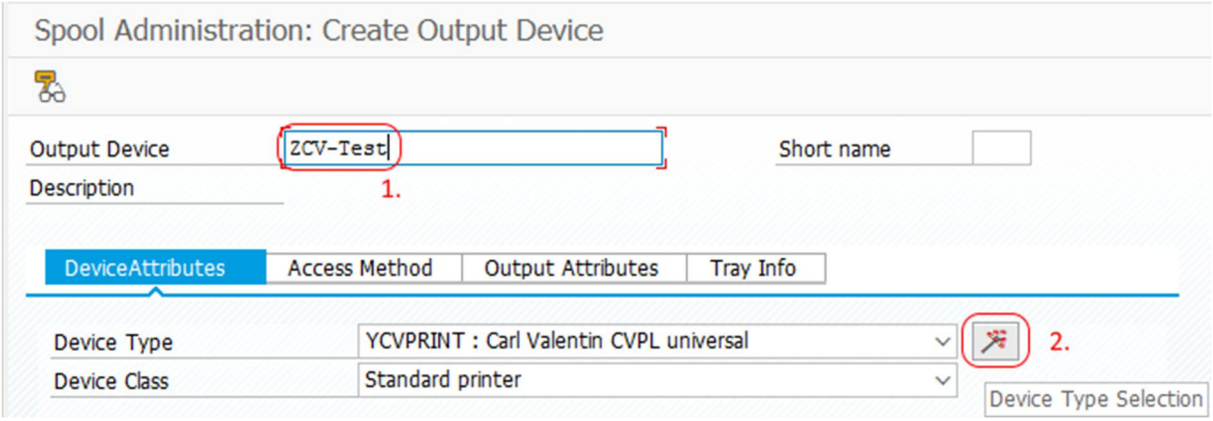
The first step is identical to that of the manual method.



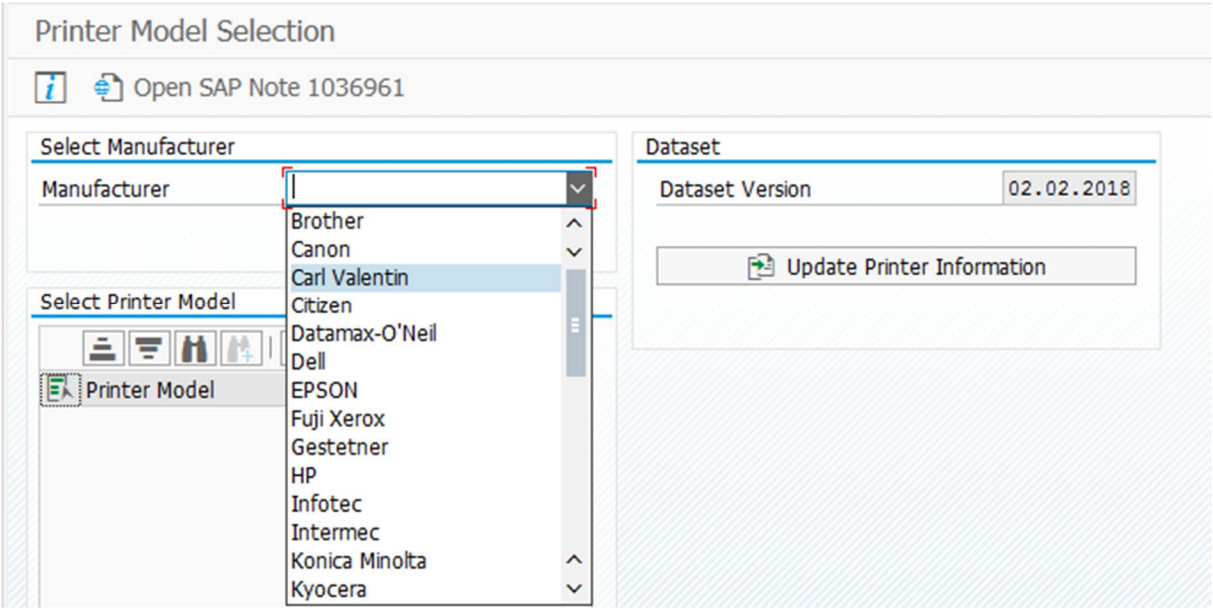
In the output device list, a switch-over is made per F8 to change and then with F5 a new device is created.



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

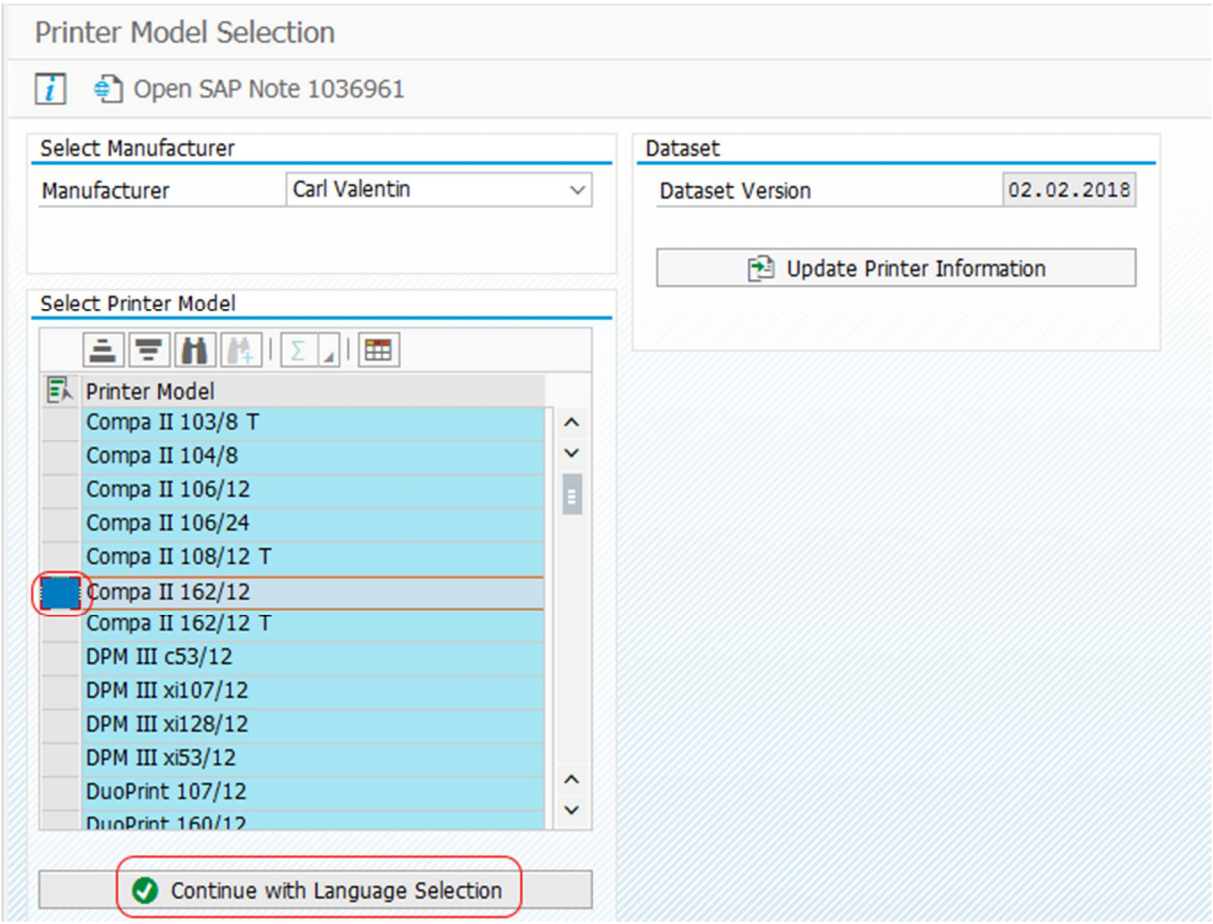


In the following dialog, select Cart Valentin under *Manufacturer*.



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

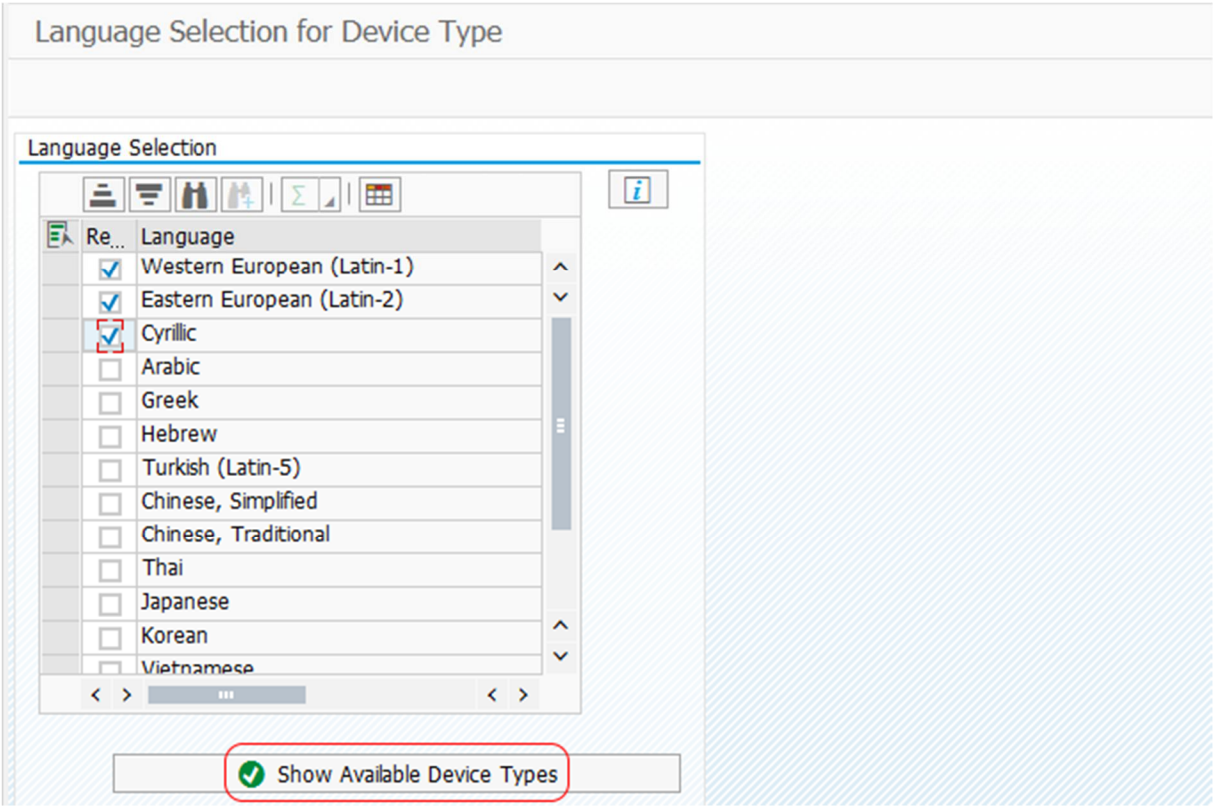
Thereupon a list with pre-defined printers is opened.



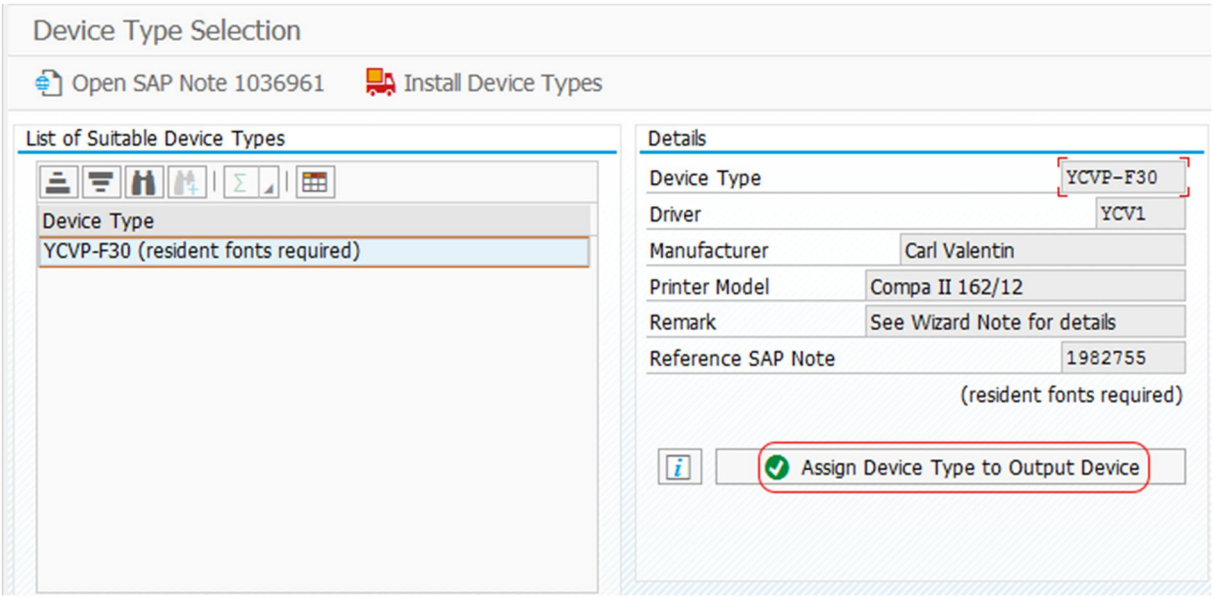
This is where one selects the printer(s) (keep Ctrl. key pressed) that are possibly to be generated. For this purpose, click into the box in front of the name.

NOTE!

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

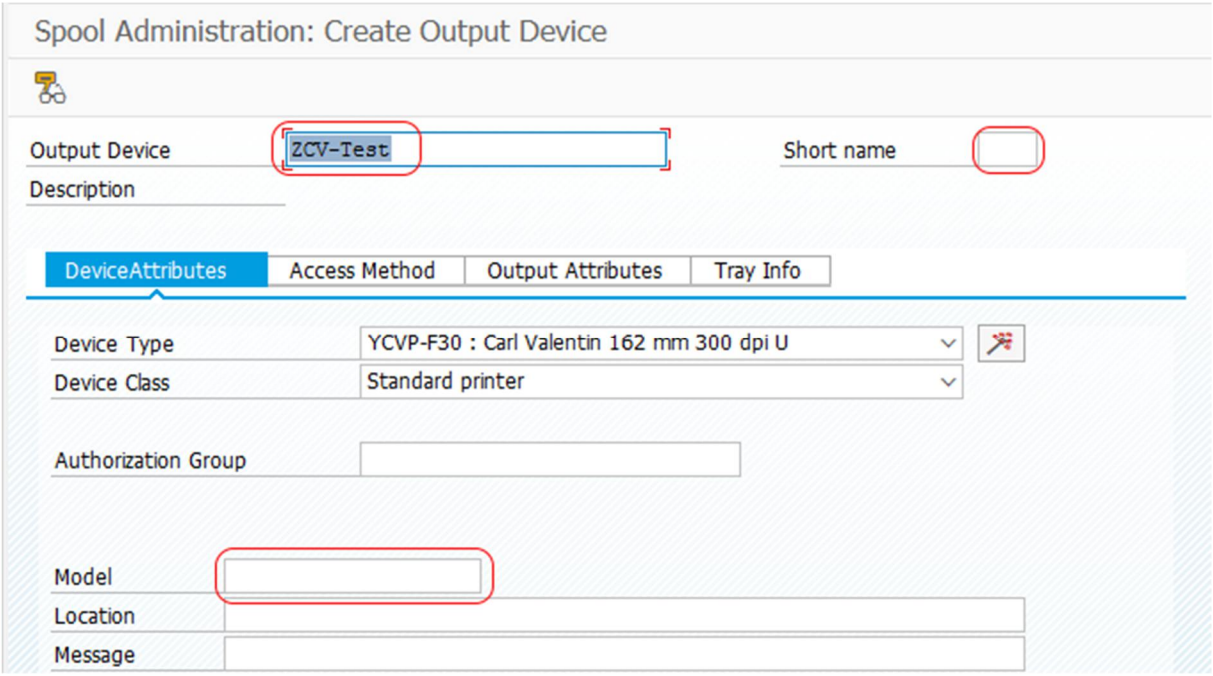


Here the language to be printed is specified.



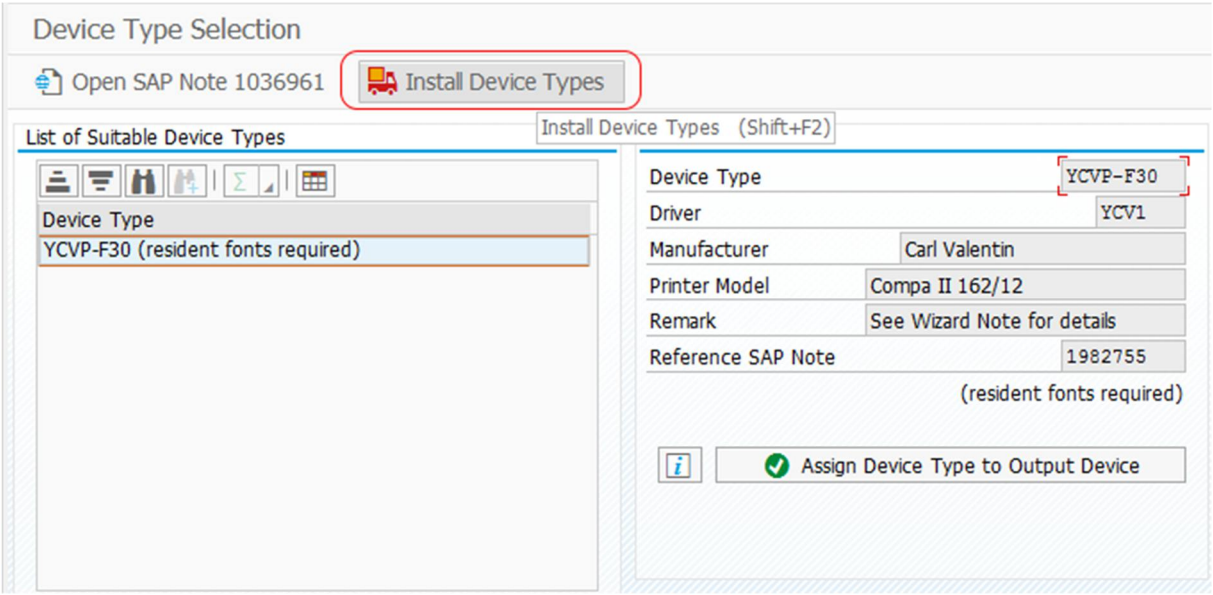
Possibility 1

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



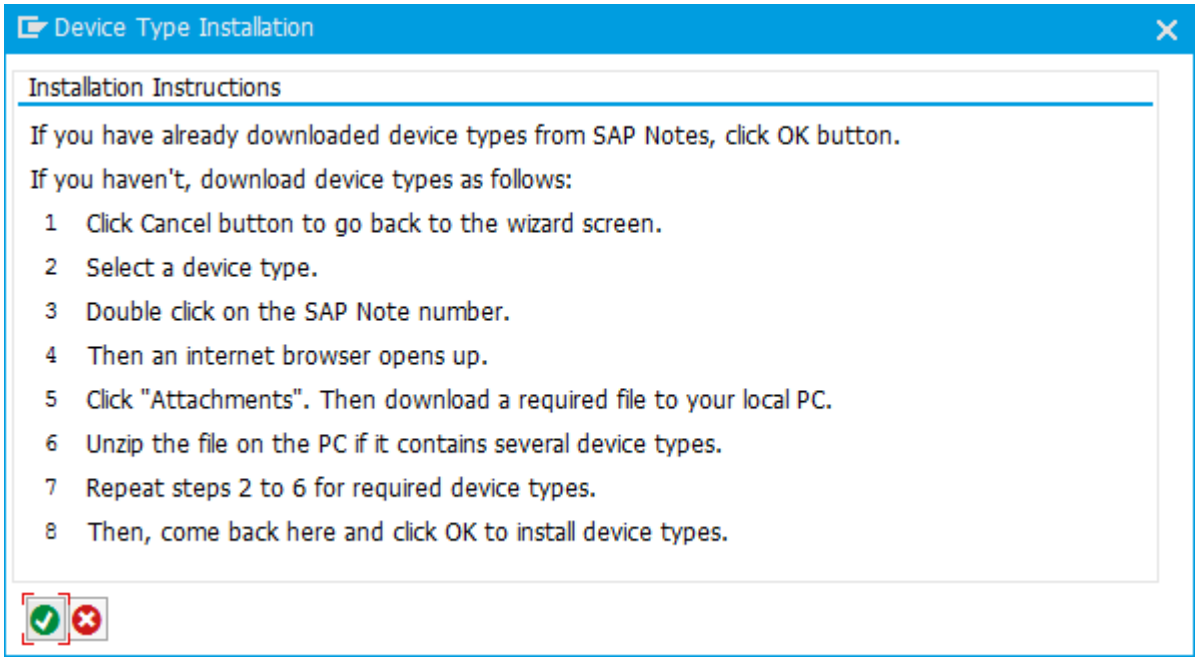
Possibility 2

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.

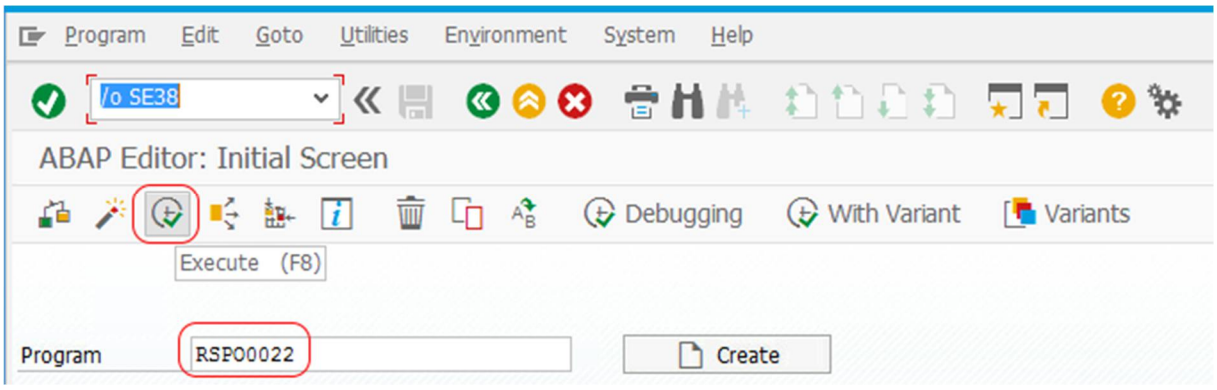
The functional differences between the Smart Forms and Interactive Forms Adobe are presented in Note 1009567.

Also refer to Note 685571.

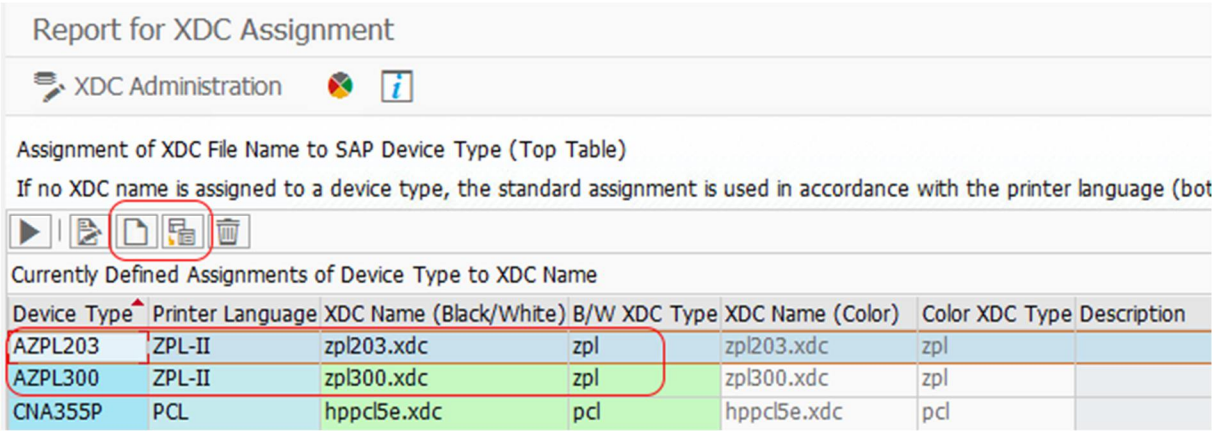
5.1 Assigning device types

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 **RSPO0022** report is to be retrieved and F8 carried out.



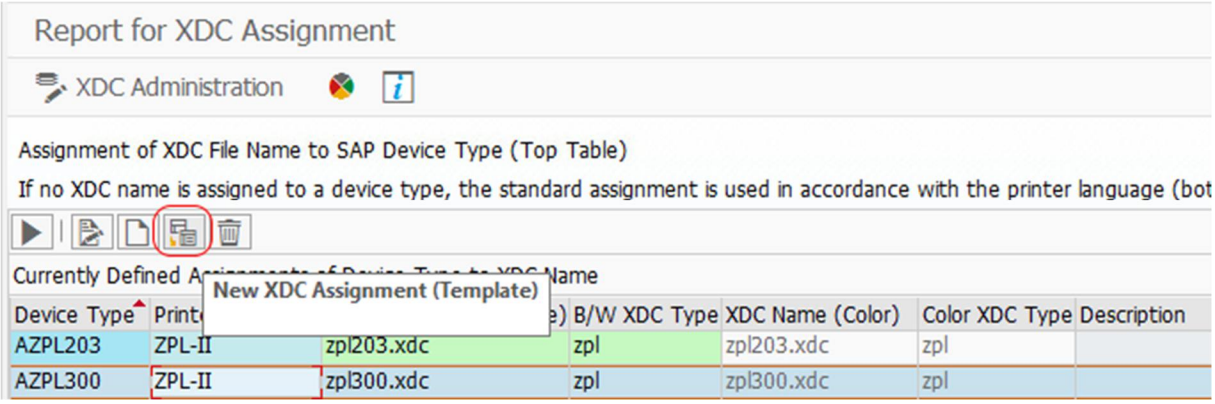
Only the first two entries are of interest in the following list. They serve as the basis for assigning to one's own device types.



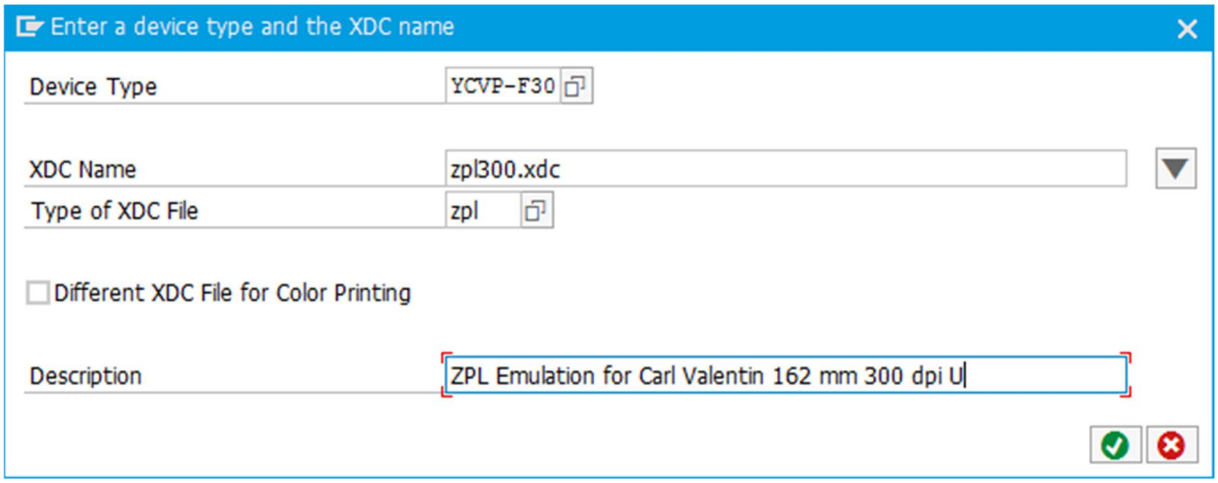
From one's own list of the device types (see Section: *Predefined device types*), the name of the appropriate device is to be found, e.g.

YCVP-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 YCVP-F30 device type.

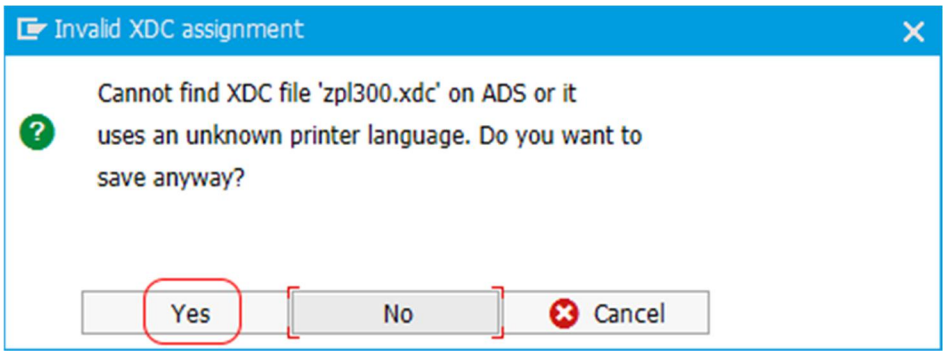


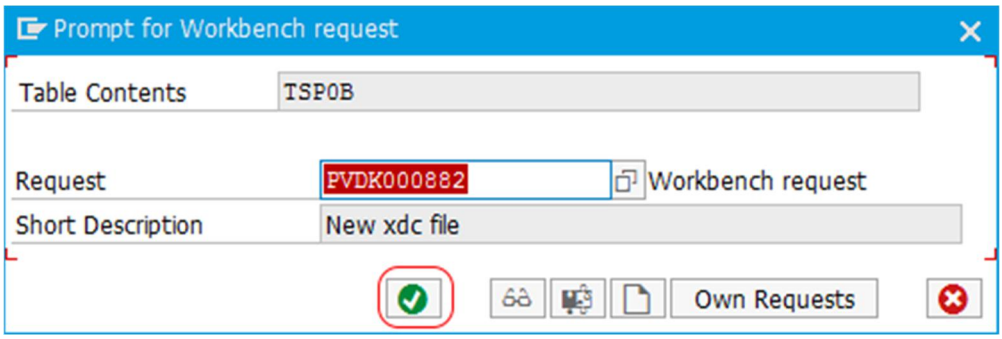
New is for continuing:



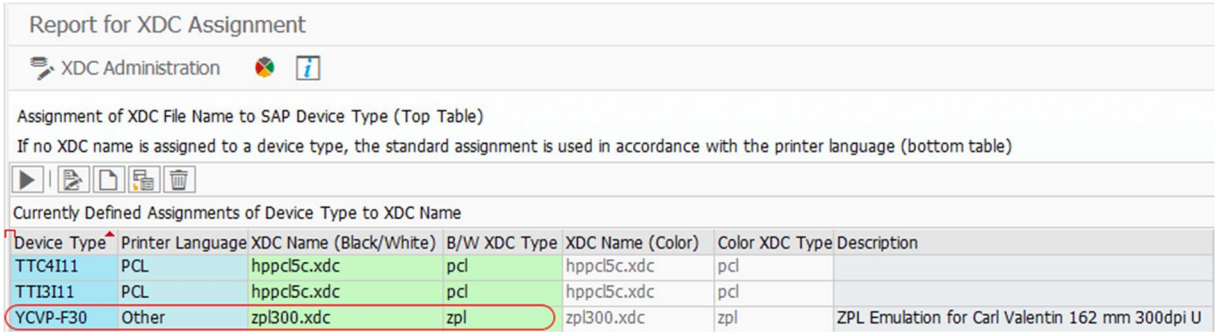
The Valentin device is not present in the device type list. The name is therefore entered directly. A description can also be made.

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



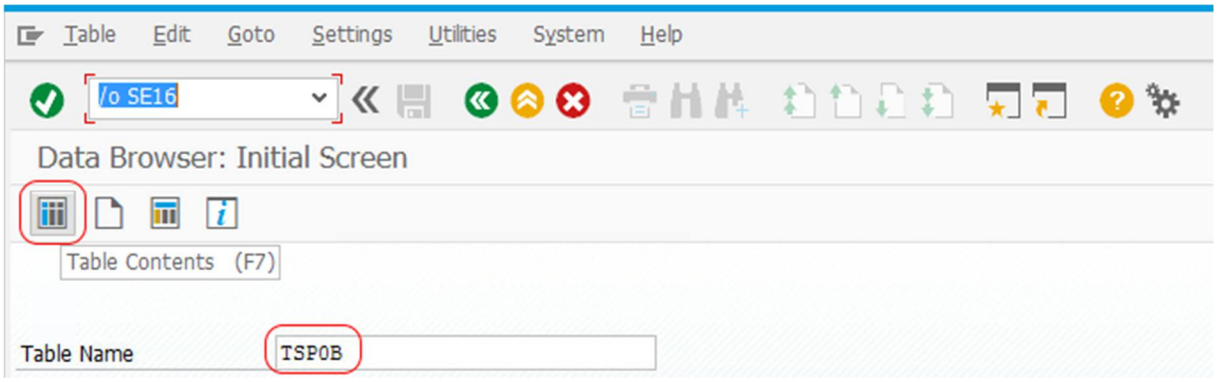


The new entry should now appear in the list.

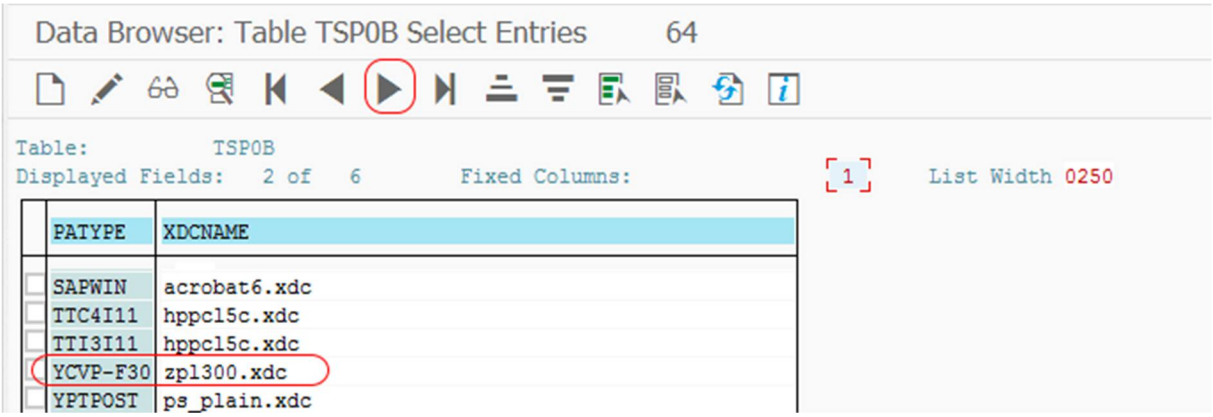


The device type can now be selected in the Interactive Forms and used.

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.



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.

valentin
DRUCKSYSTEME

Carl Valentin GmbH
Neckarstraße 78 – 86 & 94 . 78056 Villingen-Schwenningen
Phone +49 7720 9712-0 . Fax +49 7720 9712-9901
info@carl-valentin.de . www.carl-valentin.de