



New Device Type Selection Method in Transaction SPAD

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Introduction

When you create an output device in transaction SPAD, you have to specify an appropriate device type. It is not a problem if there is an exact match. However, it is not certain if you cannot find an exact match.

A new method, which allows you to select a device type by specifying a printer model, has been added in transaction SPAD. It is no longer necessary to worry about the choice of a device type because an appropriate device type will be recommended after selecting four criteria:

- The printer manufacturer's name.
- The language to be printed.
- Unicode printing or not.
- The type (or the model) of the printer you use.

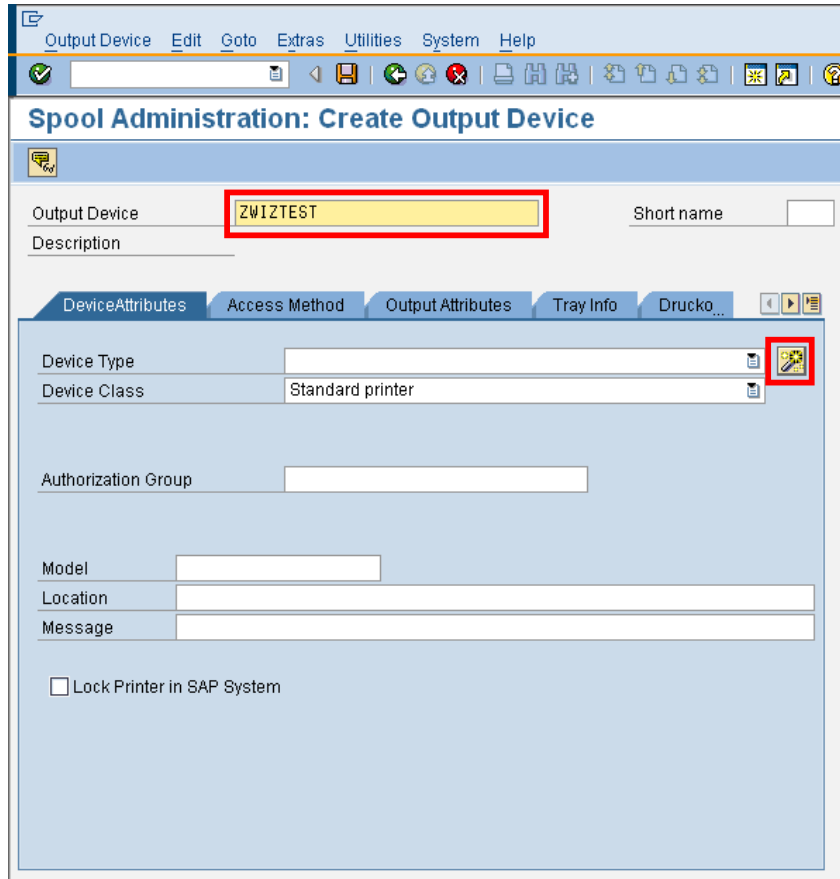
It is now available on 6.20, 6.40 and 7.xx systems with certain support packages. For details, please refer to SAP Note 1036961, 'Device type selection in transaction SPAD'. However, some new features are available only with Enhancement Packages. There is a remark in this document if a feature has been implemented only in an Enhancement Package.

Remark

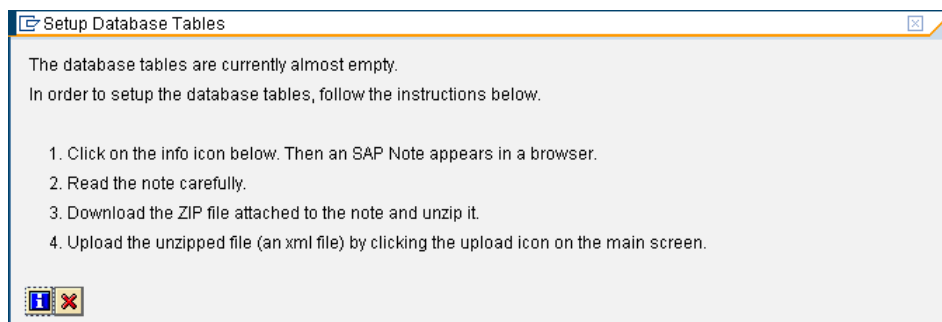
In the following pages, the screenshots have been taken on a 7.10 system. They may look different on a 6.20 or 6.40 system, though basic operations stay the same.

1. Operation guide

First, run transaction SPAD, click on “Display” button next to “Output Device” input field, change to the edit mode, and click on “Create” Icon. Then, the following screen appears. Specify an output device name first, and click on “Select Device Type” icon. (If you use a technical screen, it looks slightly different but the position of “Select Device Type” button is the same.)



If it is the first time the wizard is called, the following message will appear. Then, follow the instructions in Chapter 3 to update database tables.



First, select a manufacturer. The term "Generic" is used for manufacturer independent printing such as Windows frontend printing using a SAPWIN family device type.

The screenshot shows the 'Device Type Selection' dialog box with the following components:

- Select Criteria:** Includes 'Manufacturer's Name' and 'Language' (set to 'Fuji Xerox'). A 'Show Printers' button is visible.
- Select a Printer:** A dropdown menu is open, showing a list of printer manufacturers. The 'Generic' option is highlighted with a red box. Other visible options include 'Scitcom', 'Gestetner', 'HITACHI', 'HP', 'IBM', 'Infotec', and 'Intermec'.
- Table:** A table with columns: 'Printer Model', 'Dev Type', 'Alternative', 'Customer's', 'SAP Note', and 'Remark'. The table is currently empty.
- Form Fields:** Below the table are input fields for 'Manufacturer's Name', 'Printer Model', 'Language Group', and 'Remark'. There are also checkboxes for 'Unicode Printing' and 'Reference SAP Note'.
- Select a Device Type:** Radio buttons for 'Default' (selected), 'Alternative', and 'Customer's' are present.
- Footer:** A row of icons for navigation and actions.

Then, available printers (recorded in table TSPPOIP) are listed up.

Device Type Selection

Select Criteria

Manufacturer's Name: Dataset Version: 20070919

Language:

Select a Printer

Printer Model	Dev Type	Alternative	Customer's	SAP Note	Remark
ASCII printer, 7-bit ASCII	ASCIIPRI			8928	
Windows PC Printer	SWINCF	ZSWINCF		812821	For cascading
Windows PC Printer (frontend printing)	SAPWIN			8928	
Windows PC Printer (frontend printing)	I2SWIN			83502	
Windows PC Printer (frontend printing)	I4SWIN			784665	
Windows PC Printer (frontend printing)	SAPWIN5			423003	
Windows PC Printer (frontend printing)	ARSWIN			809034	Arabic printing
Windows PC Printer (frontend printing)	I7SWIN			83502	

Manufacturer's Name:

Printer Model:

Language Group: Unicode Printing:

Remark: Reference SAP Note:

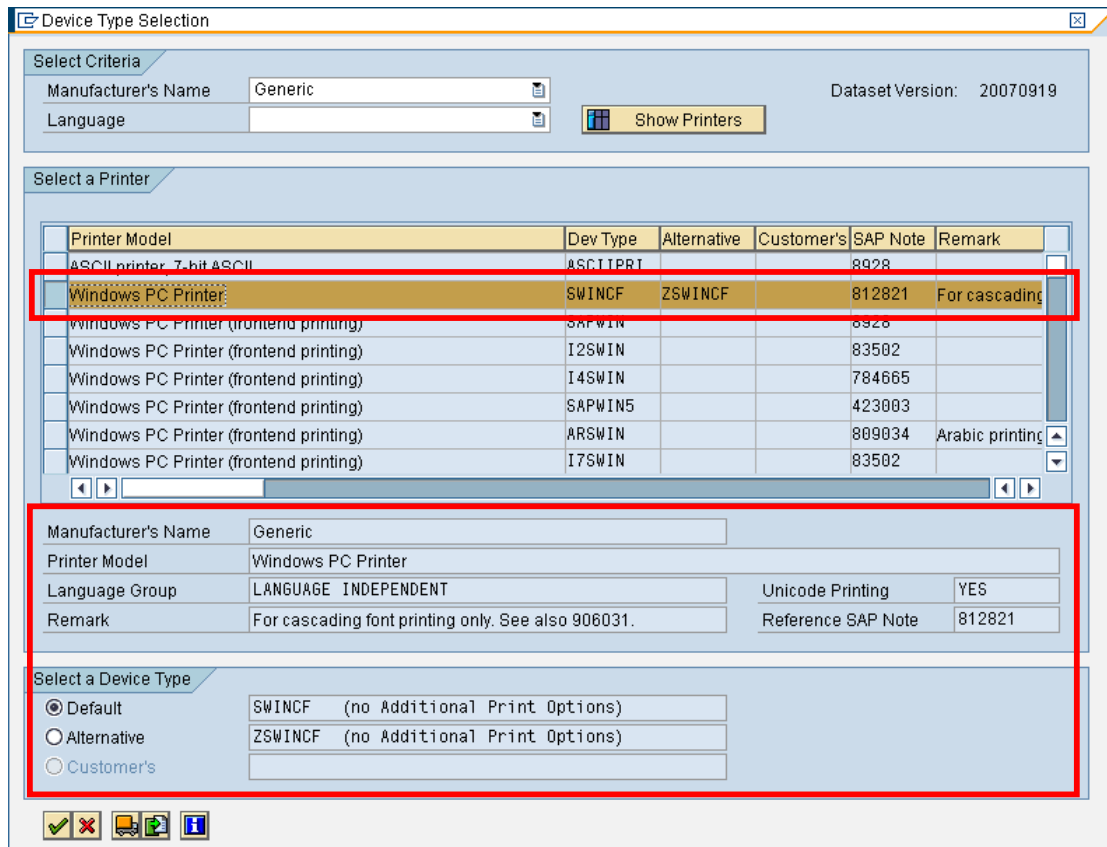
Select a Device Type

Default

Alternative

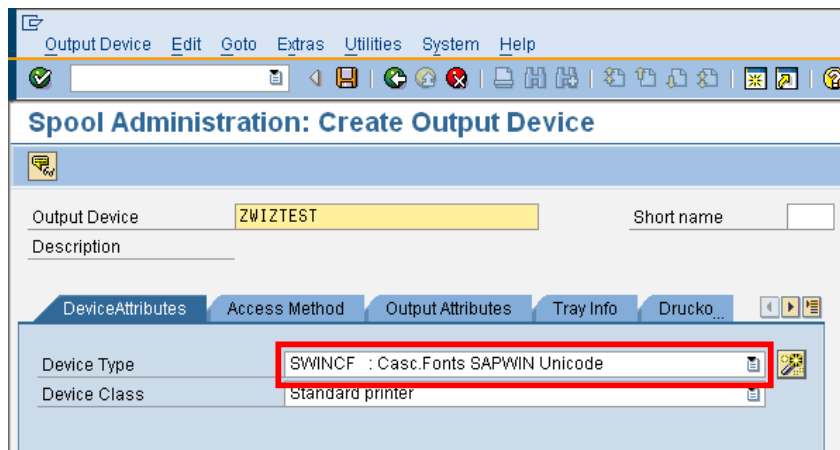
Customer's

Double-click on one of the lines. Then detail information appears.



The three radio buttons next to Device Type, Alternative Device Type and Customised Device Type are active when the corresponding device type is available on the system. If, unfortunately, no device type is available on your system, all the radio buttons and "OK" button at the bottom become inactive.

By clicking on the 'OK' button, the selected device type will be notified to SPAD.



2. Tips and hints

2.1. Narrow the search criteria

The two criteria fields at the top of the screen are selection options. The more you specify, the fewer printers you get. It will help you if a manufacturer has many printers.

Device Type Selection

Select Criteria

Manufacturer's Name: HP

Language: ENGLISH

Dataset Version: 20070919

Show Printers

Select a Printer

Printer Model	Dev Type	Alternative	Customer's	SAP Note	Remark
Business Inkjet 2250	HP2250			8928	HP2250 is co
Business inkjet 2300	HPB123			8928	HPB123 is cor
Business inkjet 2800	HP2800			8928	HP1022 is co
Business inkjet 3000	HP3000			8928	HP3000 is co
Color LaserJet 3000	HPC3000			8928	HPC3000 is c
Color LaserJet 3700	HP3700			8928	HP3700 is co
Color LaserJet 3800	HP3800			8928	HP3800 is co
Color LaserJet 4500/N/DN, 8500/N/DN PCL6	HPLJ4000	HPLJ5		8928	OCR-A/B and

Manufacturer's Name: _____

Printer Model: _____

Language Group: _____

Remark: _____

Unicode Printing: _____

Reference SAP Note: _____

Select a Device Type

Default

Alternative

Customer's

At least it is necessary to specify a manufacturer's name to click 'Show Printers' button. It is for preventing an internal table from expanding beyond the memory limitation.

2.2. "Unicode" in the Language pull-down menu

"Unicode" appears in the Language pull-down menu in the "Select Criteria" group only when the system is a Unicode system or it is used as the Central System of PAL. (As for PAL, please refer to SAP Note 964501, 'Printing Assistant for Landscape (PAL)').

Device Type Selection

Select Criteria

Manufacturer's Name:

Language: **UNICODE** (selected)

Dataset Version: 20070919

Show Printers

Select a Printer

Printer Model	Dev Type	Alternative	Customer's	SAP Note	Remark

Manufacturer's Name:

Printer Model:

Language Group:

Remark:

Unicode Printing:

Reference SAP Note:

Select a Device Type

Default

Alternative

Customer's

When you select "Unicode" on a Unicode system, it will list up printers that use Unicode and are language independent. A typical example is a "UTF-8 enabled PCL5 printer with Andale Unicode fonts" printer of HP or Lexmark.

Device Type Selection

Select Criteria

Manufacturer's Name: Lexmark

Language: UNICODE

Dataset Version: 20070919

Show Printers

Select a Printer

Printer Model	Dev Type	Alternative	Customer's	SAP Note	Remark
UTF-8 enabled PCL5 printer with Andale Unicode fonts	LEXUTF8			215015	

If a device type is a Unicode device type but it only supports a specific language, it will not be listed. For example, ARSWIN device type appears when you select "Generic" for a manufacturer's name and "Arabic" for a language. ARSWIN is a unicode device type but it is for Arabic only.

Device Type Selection

Select Criteria

Manufacturer's Name: Generic

Language: ARABIC

Dataset Version: 20070919

Show Printers

Select a Printer

Printer Model	Dev Type	Alternative	Customer's	SAP Note	Remark
Windows PC Printer (frontend printing)	ARSWIN			809034	Arabic printing

Manufacturer's Name: Generic

Printer Model: Windows PC Printer (frontend printing)

Language Group: ISO8859-6, ARABIC

Remark: Arabic printing only.

Unicode Printing: YES

Reference SAP Note: 809034

Select a Device Type

Default: ARSWIN (no Additional Print Options)

Alternative

Customer's

2.3. No printer is listed

On the other hand, it is possible that the specified combination has no specific entry, general purpose device types will be displayed. In the example below, "Windows PC Printer" belongs to "Generic" printer group, not an HP printer. However, JPSAPWIN device type can be used.

Device Type Selection

Select Criteria

Manufacturer's Name: HP Dataset Version: 20070919

Language: JAPANESE Show Printers

Select a Printer

Printer Model	Dev Type	Alternative	Customer's	SAP Note	Remark
Windows PC Printer (frontend printing)	JPSAPWIN			83502	

Manufacturer's Name: _____

Printer Model: _____

Language Group: _____ Unicode Printing: _____

Remark: _____ Reference SAP Note: _____

Select a Device Type

Default _____

Alternative _____

Customer's _____

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Moreover, it is also possible that the specified combination has no general purpose device type. For instance, there is only one ARABIC printer in Generic, which is a Unicode printer. Therefore the combination of 'Generic' as a manufacturer's name and 'ARABIC' for a language shows up nothing if the system is not a Unicode system.

As mentioned before, the purpose of table TSPOPIP is to make it easier for customers to select a device type when they create a new output device. It suggests that customers can (or have to) select a device type manually if a special one is required.

2.4. Additional information worth reminding

The following example shows that some printers have an important remark that must be taken into account.

The screenshot shows the 'Device Type Selection' dialog box. The 'Select a Printer' section contains a table with the following data:

Printer Model	Dev Type	Alternative	Customer's	SAP Note	Remark
ASCII printer, 7-bit ASCII	ASCIIPRI			8928	
Windows PC Printer	SWINCF	ZSWINCF		812821	For cascading
Windows PC Printer (frontend printing)	SAPWIN			8928	
Windows PC Printer (frontend printing)	I2SWIN			83502	
Windows PC Printer (frontend printing)	I4SWIN			784665	
Windows PC Printer (frontend printing)	SAPWIN5			423003	
Windows PC Printer (frontend printing)	ARSWIN			809034	Arabic printing
Windows PC Printer (frontend printing)	I7SWIN			83502	

Below the table, the 'Remark' field is circled in red and contains the text: 'For cascading font printing only. See also 906031.'

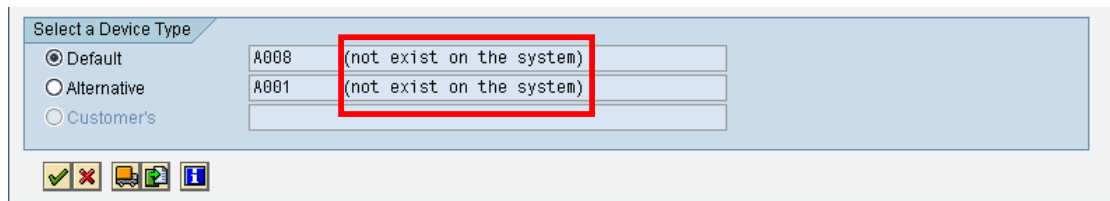
The reference SAP Note will be displayed in a browser if you double-click on the note number. It works only in "Reference SAP Note" field. The note number in "Remark" field will not be shown.

In the example above, a phrase "(no Additional Print Options)" appears with device type names at the bottom. If the Additional Print Options are not enabled to the device type, the phrase appears. (As for the Additional Print Options, please refer to SAP Note 1049778, 'Additional print options for SAPscript/Smart Forms'.) The following example shows two device types without/with the Additional Print Options.

The screenshot shows the 'Select a Device Type' dialog box. The 'Default' radio button is selected, and the text "(no Additional Print Options)" is circled in red next to the device type "HPLJ4".

2.5. Non-existing device types

If a device type does not exist on your system, a message appears at the bottom.

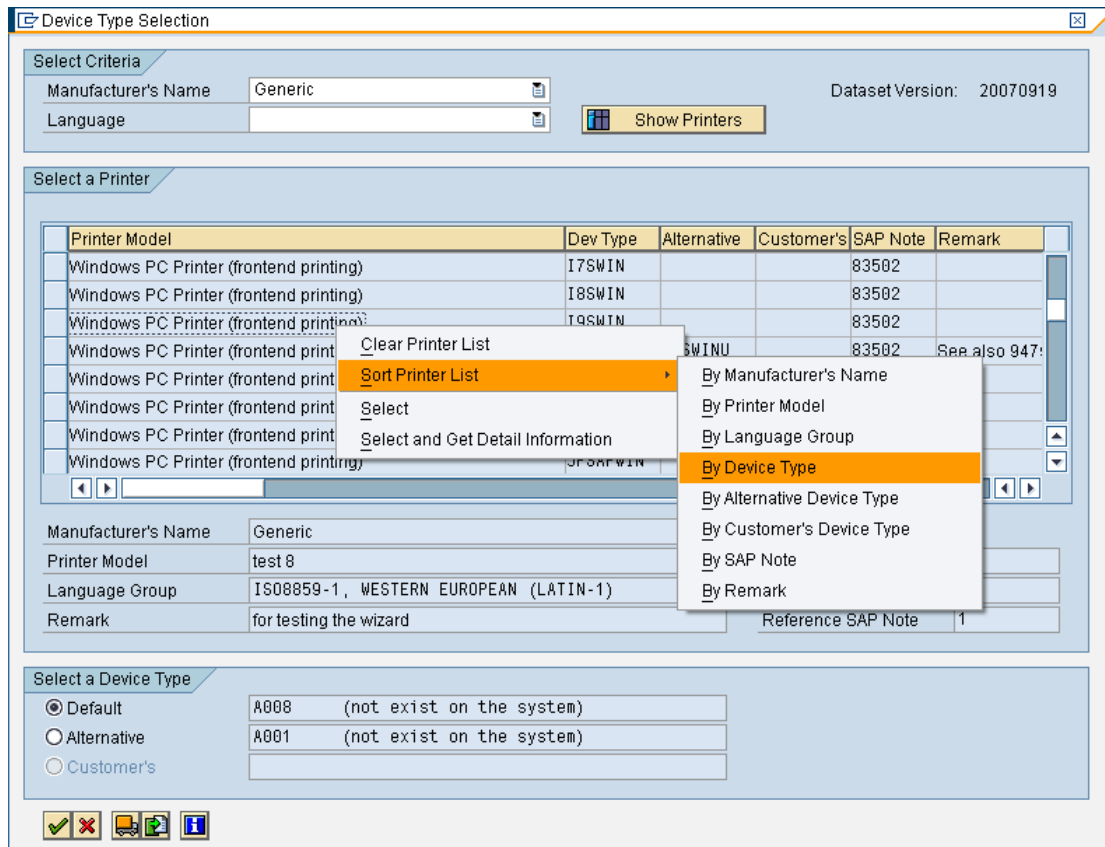


The screenshot shows a dialog box titled "Select a Device Type". On the left, there are three radio buttons: "Default" (selected), "Alternative", and "Customer's". To the right, there are three input fields. The first two fields contain the device type codes "A008" and "A001" respectively, and both have the text "(not exist on the system)" displayed next to them. A red rectangular box highlights the error messages for both "A008" and "A001". At the bottom of the dialog box, there is a toolbar with five icons: a green checkmark, a red X, a printer, a refresh symbol, and a help icon.

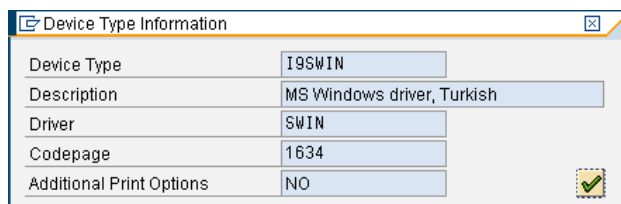
When it happens, the device type is normally attached to a reference SAP Note. Please refer to Chapter 4.

2.6. Context menu

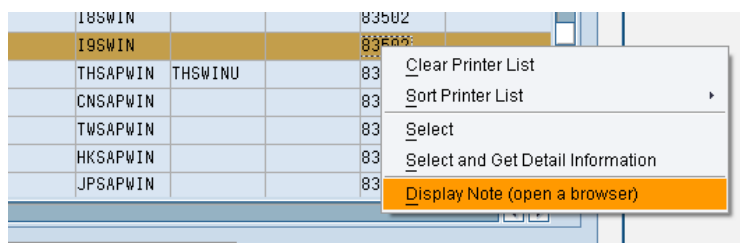
There is a context menu on the printer list as well. A right-click gives you more functions than visible functions.



The available context menus vary with a cursor position. For instance, you can get the detail information on the device type when the cursor is at a device type name.

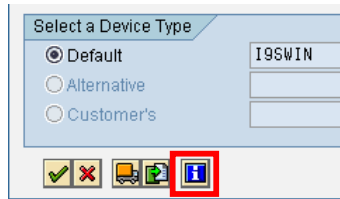


Or, you can read a note when the cursor is on a note number.



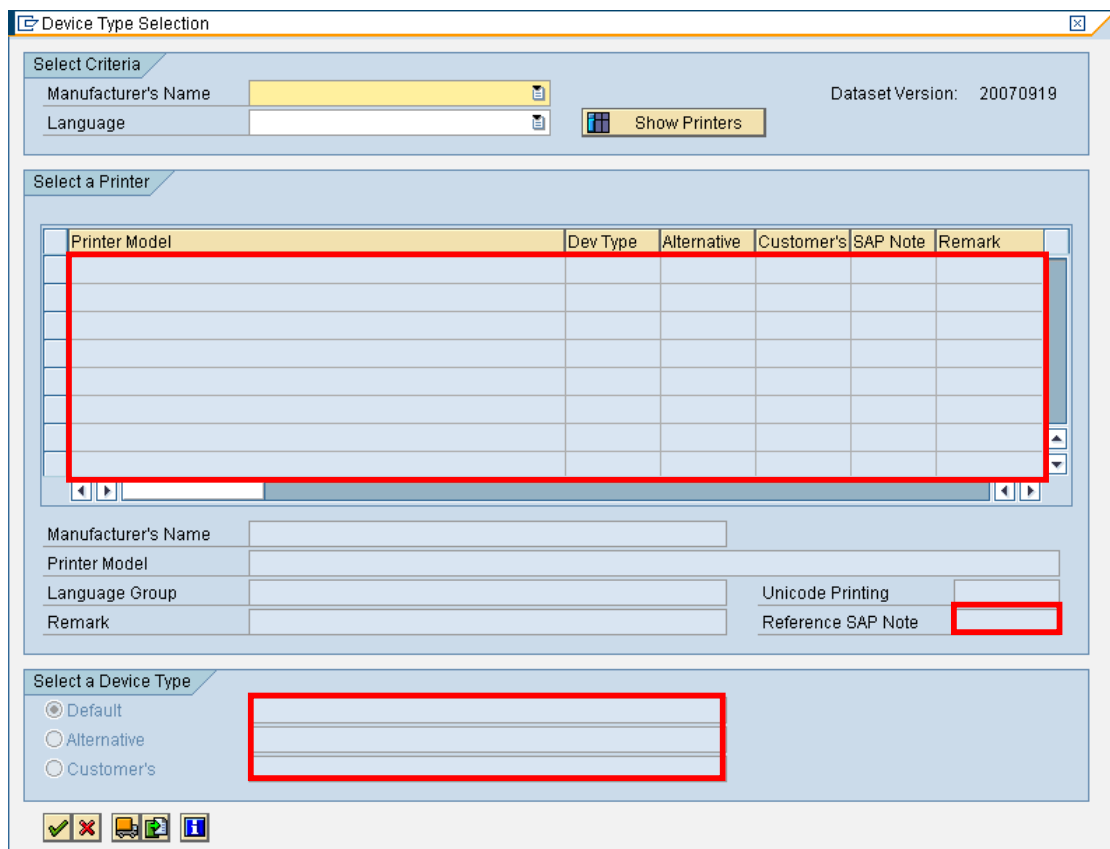
2.7. General information

Information button at the bottom opens a browser and display SAP Note 1036961, which contains general information on the new method.



2.7. Double-clickable area

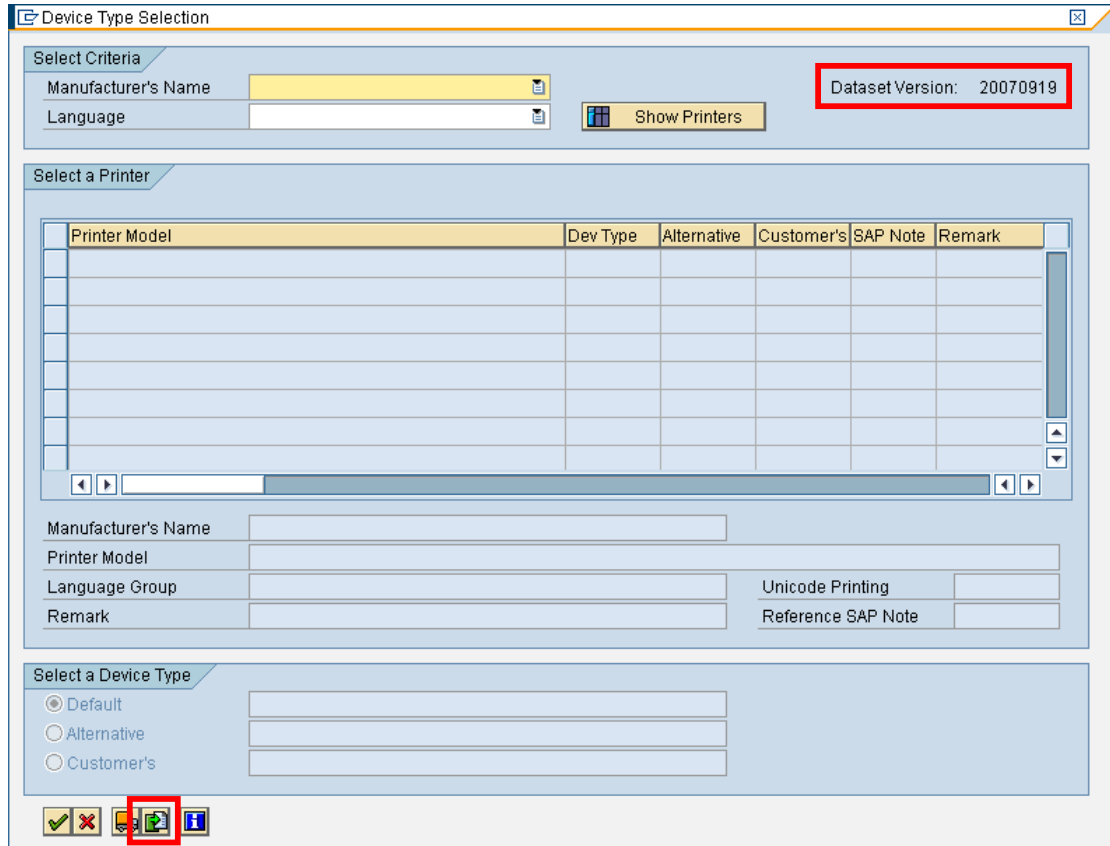
The following areas are double-clickable.



Double-clicking on the list area means you select a printer. Detail information will be displayed in a pop-up screen by double-clicking on a device type name. A browser will be opened and an SAP Note will be displayed in it by double-clicking on the reference SAP Note number.

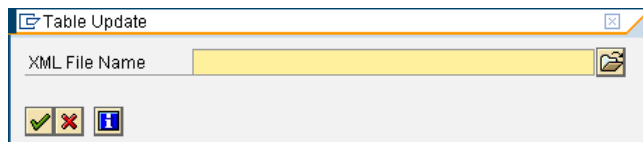
3. Updating Information Tables on Your System

The relationship between printer models and device types are stored in table **TSPOPIP**, and the list of printer manufacturers is stored in table **TSPOPIMAN**. The version of the current data on your system is displayed at the top right corner of the window.



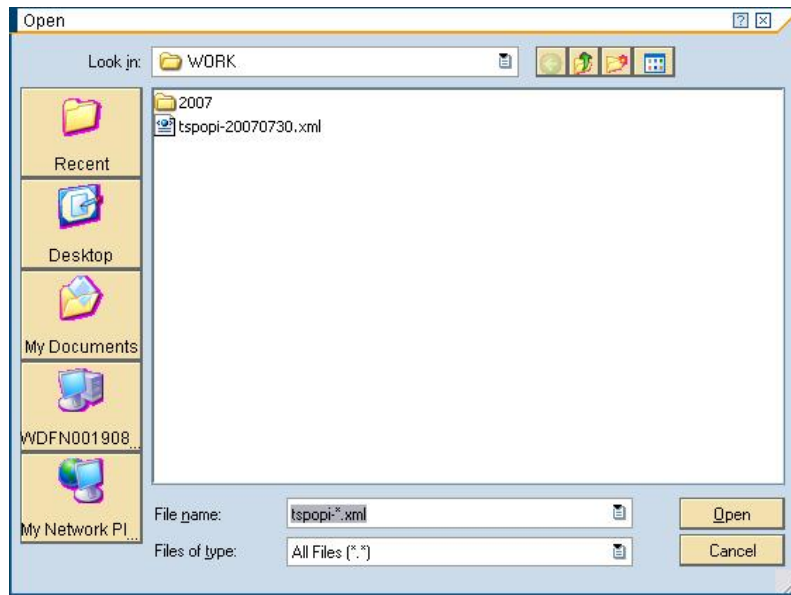
The latest data is provided as an attachment to SAP Note 1036961, 'Device type selection in transaction SPAD'. The file name is `tspopi-yyyymmdd.xml` where `yyyymmdd` is the date of the file creation. (The xml file is zipped so the actual attached file names are `tspopi-yyyymmdd.zip`.)

To update your table, download the attachments to your local PC, unzip them, then click on "Update Table Information" button at the bottom. A simple dialog box appears.



By specifying `tspopi-yyyymmdd.xml` (with an appropriate path name) and clicking on "OK" button, you will be able to upload the XML files and the tables will be updated automatically.

"File Open Dialog" icon at the right-end of the input field allows you to select the file in the normal Windows way.



4. Installing Device Types

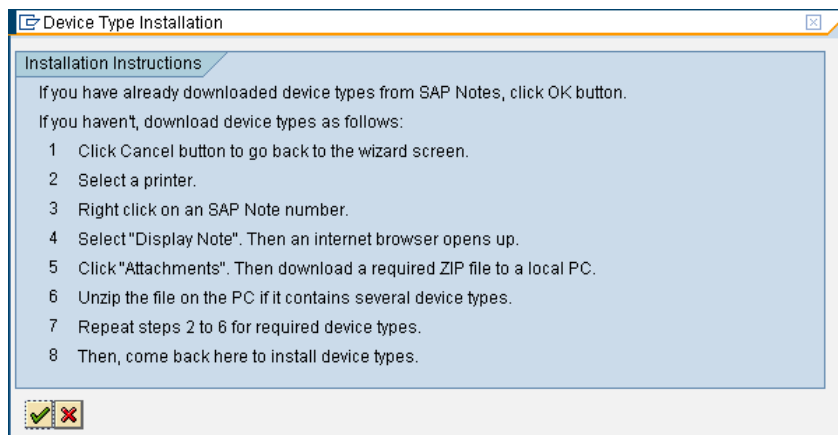
This feature is available in Enhancement Package 1 of Netweaver 7.0 and 7.1 or later.

Sometimes a device type might not be installed on your system. You can install it in a traditional way as described in SAP Note 6427, 'Information about device type upload/download'. However, a new device type installation aid is implemented in the wizard.

First, click on "Install Device Types" button at the bottom-left corner.



Then the instructions appears.



5. Reference SAP Notes

1036961	Device type selection in transaction SPAD
964501	Printing Assistant for Landscape (PAL)
1049778	Additional print options for SAPscript/Smart Forms
6427	Information about device type upload/download