

# 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 tachnical screen, it looks slightly different but the postion of "Select Device Type" button is the same.)

C Output Device	Edit Goto Extras Utilities System Help	
Ø	C C C C C C C C C C C C C C C C C C C	🐹 🗾   🔞
Spool Adm	inistration: Create Output Device	
R		
Output Device Description	ZWIZTEST Short name	
DeviceAttribute	es Access Method Output Attributes Tray Info Drucko	
Device Type		
Device Class	Standard printer	
Authorization Gro	up	
Model		
Location		
Message	in SAP System	

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.

🖻 Setup Database Tables	$\times$
The database tables are currently almost empty.	
In order to setup the database tables, follow the instructions below.	
1. Click on the info icon below. Then an SAP Note appears in a browser.	
2. Read the note carefully.	
3. Download the ZIP file attached to the note and unzip it.	
4. Upload the unzipped file (an xml file) by clicking the upload icon on the main screen.	

Device Type Selection					[
Manufacturer's Name	<u> </u>		Da	itaset Versi	on: 20070919
Language		Show Printers			
Gelect a Printer					
Printer Model	Dev Ty	pe Alternative	Customer's	SAP Note	Remark
					<b>▲</b>
Manufacturer's Name Printer Model					
Language Group			Unicode Pri	ntina	
Remark			Reference 8		
Select a Device Type					
Default					
OAlternative					
O Customer's					

If the database tables have been updated already, the device type selection screen appears.

The button names are as follows:

V

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- "Show Printers" button
- "OK" button
- "Cancel" button
- "Install device types" button (Chapter 4, only in Enhancement Package 1 of Netweaver 7.0 and 7.1)
- "Update printer information" button (Chapter 3)
  - "Information" button (Chapter 2)

elect Criteria								
Manufacturer's Name		8			Da	ataset Vers	ion: 200709	19
Language	Fuji Xerox			Show Printers				
	Fujitou							
elect a Printer	Generic							
	Gestetner							
Printer Model	HITACHI		еv Туре	Alternative	Customer's	SAP Note	Remark	
r miter moder	HP		er type	Alternative	o dotoinier o	O/A NOIC	rtemant	-
	IBM Infotec							-
-	Intermec	<b>T</b>						
								-
_								
_								
_								
								•
								]
Manufacturer's Name								
Printer Model								
Language Group					Unicode Pri	inting		
Remark					Reference	SAP Note		-
elect a Device Type								
<ul> <li>Default</li> </ul>								
OAlternative								
O Customer's								
O Customers								

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

Next, click on "Show Printers" button.

7 Device Type Selection Select Criteria							2
Manufacturer's Name	Generic			Da	ataset Vers	ion: 2007091	19
Language	Ĩ	E SP	now Printers				
Select a Printer							
Printer Model		Dev Type	Alternative	Customer's	SAP Note	Remark	
Anufacturer's Name						( )	
Printer Model Language Group				Unicode Pr	inting		-
Remark				Reference			
Select a Device Type © Default O Alternative O Customer's							
🖌 🗙 📑 🛐 🚺							

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

elect Criteria	Generic					ataset Vers	20070040
Manufacturer's Name Language	Generic		🚹 Sh	ow Printers		itaset vers	ion: 20070919
		_					
elect a Printer							
Printer Model		Ir	Dev Type	Alternative	Customer's	CAD Moto	Bomork
ASCII printer, 7-bit ASC	NI		SCIIPRI	Alternative		8928	Remark
Windows PC Printer	20		WINCF	ZSWINCF		812821	For cascadinc
Windows PC Printer (f	rontend printing)		APWIN	20111101		8928	i oi cuocuaing
Windows PC Printer (f			2SWIN			83502	
Windows PC Printer (f		]	4SWIN			784665	
Windows PC Printer (f		5	APWIN5			423003	
Windows PC Printer (fi	rontend printing)	P	RSWIN			809034	Arabic printing 🔺
Windows PC Printer (f	rontend printing)	]	7SWIN			83502	
• •							• •
Manufacturer's Name							
Printer Model							
Language Group					Unicode Pri	inting	
Remark					Reference	SAP Note	
elect a Device Type							
Default							
Alternative							
O Customer's							

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

Select Criteria					
Manufacturer's Name	Generic			Dataset Vers	sion: 20070919
Language	1	🚹 Sh	iow Printers		
/					
Select a Printer					
Printer Model		Dev Type	Alternative	Customer's SAP Note	Remark
ASCII printer, 7-hit AS(	ell.	ASCIIPRI		8928	
Windows PC Printer		SWINCF	ZSWINCF	812821	For cascading
windows PC Printer (	rrontena printing)	ONFWIN		0920	
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	Generic				
Printer Model	Windows PC Printer				
Language Group	LANGUAGE INDEPENDENT			Unicode Printing	YES
Remark	For cascading font printing only. See als	0.000021		Reference SAP Note	812821
	Tor cusculing for printing only. See al.				012021
Select a Device Type					
Default	SWINCF (no Additional Print (	)ptions)			
O Alternative	ZSWINCF (no Additional Print C	· · ·			
O Customer's					
O odolomor o					

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.

C Output Device Ed	lit Goto Extras	Utilities	System	Help		
©	1	9   😋	-		* 1 0 0 1	💥 🛃   😨
Spool Admin	istration: 0	reate	Output	Device	•	
<b>.</b>						
Output Device Description	ZWIZTEST				Short name	
DeviceAttributes	Access Metho	od Out	put Attribut	es Trayl	Info Drucko	
Device Type	SWIN	ICF :Case	:.Fonts SAF	PWIN Unicod	le	1
Device Class	Stan	lard printer				

# 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.

lect Criteria Manufacturer's Name	HP	ĩ			Da	ataset Vers	ion: 200709 <sup>.</sup>	19
_anguage	ENGLISH	1	🚹 Sh	ow Printers				
lect a Printer								
Printer Model		D	ех Туре	Alternative	Customer's	SAP Note	Remark	
Business Inkjet 2250		н	P2250			8928	HP2250 is co	
Business inkjet 2300		н	PBI23			8928	HPBI23 is cor	
Business inkjet 2800		н	P2800			8928	HP1022 is co	
Business inkjet 3000		н	P3000			8928	HP3000 is co	
Color LaserJet 3000		н	PC3000			8928	HPC3000 is d	
Color LaserJet 3700		н	P3700			8928	HP3700 is co	
Color LaserJet 3800		н	P3800			8928	HP3800 is co	
Color LaserJet 4500/N	/DN, 8500/N/DN PCL6	H	PLJ4000	HPLJ5		8928	OCR-A/B and	▼
							• •	
/anufacturer's Name								
Printer Model								
_anguage Group					Unicode Pr	intina		╡
Remark					Reference	-		۲
Cillain					Treference	DAI NOLE		
lect a Device Type								
Default								
Alternative								
Customer's								
Joustomers								

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								×
Manufacturer's Name		Ē			Da	itaset Versi	ion: 2007091	9
Language			🚮 S	how Printers				
Select a Printer	AFRIKANO ALBANIAN ARABIC							
Printer Model	BASQUE BURGARIAN BYELORUSSIAN CATALAN CROATIAN CZECH		iev Type	Alternative	Customer's	SAP Note	Remark	
Manufacturer's Name								•
Printer Model								7
Language Group					Unicode Pri	inting		f.
Remark					Reference	3AP Note		j
Select a Device Type								
O Alternative O 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	1			Da	ataset Versio	n: 20070919	3
Language	UNICODE	1		Show Printers				
Select a Printer								
Printer Model			Печ Тур	e Alternative	Customer's	SAP Note	Pemark	
UTF-8 enabled PCL5 p	printer with Andale Unicode fonts		LEXUTE	3		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							2
Select Criteria Manufacturer's Name	Generic			D	ataset Ver	sion: 200709	19
Language	ARABIC	S S	how Printers				
Select a Printer							
Printer Model		Dev Type	Alternative	Customer's	e CAP Note	Remark	
Windows PC Printer (	frontend printing)	ARSWIN			809034	Arabic printin	
							-
							-
							-
							-
• •							]
Manufacturer's Name	Generic						
Printer Model	Windows PC Printer (frontend printing)						
Language Group	ISO8859-6, ARABIC			Unicode P	rinting	YES	
Remark	Arabic printing only.			Reference		809034	-
Select a Device Type							
Oefault	ARSWIN (no Additional Print (	Options)					
OAlternative							
O 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					
Manufacturer's Name HP Language JAPANESE	🗋 🚺 SI	how Printers		ataset Vers	ion: 20070919
		Iow I milero			
elect a Printer					
Printer Model	Dev Type	Alternative	Customer's	SAP Note	Remark
Windows PC Printer (frontend printing)	JPSAPWIN		ousioners	83502	Remain
					•
					• •
Manufacturer's Name					
Printer Model					
Language Group			Unicode Pr	intina	
Remark			Reference		
(Contain)				0/1. 11012	
elect a Device Type					
Default					
O Customer's					

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.

elect Criteria		1					
Manufacturer's Name	Generic			Da	ataset Vers	ion: 2007091	9
_anguage	ū	🚹 Sh	now Printers				
lasta Duintan							_
elect a Printer							
Printer Model		Dev Type	Alternative	Customer's	SAP Note	Remark	
ASCII printer, 7-bit AS	CII	ASCIIPRI			8928		Γ
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	Generic						
Printer Model	Windows PC Printer						
anguage Group	LANGUAGE INDEPENDENT			Unicode Pr	intina	YES	۲
Remark	For cascading font printing only. See al	so 906031.		Reference	_	812821	٦
elect a Device Type							
🖲 Default	SWINCF (no Additional Print	Options)					
Alternative	ZSWINCF (no Additional Print	Options)					
Customer's							

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.

Select a Device Type			
Oefault	HPLJ4	(no Additional Print Options)	
OAlternative			
O Customer's			

### 2.5. Non-existing device types

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

Select a Device Type			
Oefault	A008	(not exist on the system)	0
O Alternative	A001	(not exist on the system)	0
O Customer's			
🖌 🗶 🚔 🚺			

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.

elect Criteria Manufacturer's Name	Generic					De	ataset Vers	ion: 2007	0040
Language	Cenenc		🚮 Shi	<u></u>	Printers	]	ildsel vers	1011. 2007	0919
Language				0	1 milers				
elect a Printer									
Printer Model			Dev Type	Alt	ternative	Customer's	SAP Note	Remark	
Windows PC Printer (fr	ontend printir	ng)	I7SWIN				83502		
Windows PC Printer (fr	ontend printir	ng)	I8SWIN				83502		
Windows PC Printer (fr	ontend printi		TASMIN		1		83502		
Windows PC Printer (fr	ontend print	<u>C</u> lear Printer List		_	SWINU		83502	See also 9	47:
Windows PC Printer (fr	ontend print	Sort Printer List		•	<u>B</u> y Man	ufacturer's N	lame		
Windows PC Printer (fr	ontend print	<u>S</u> elect			<u>B</u> y Prin	ter Model			
Windows PC Printer (fr		Select and Get Detail Infor	mation		<u>B</u> y Lan	guage Group	)		<b></b>
Windows PC Printer (fr	ontend printir	ig)	JEONEWIN		<u>B</u> y Dev	ісе Туре			_ 📼
• •				_	By Alter	rnative Devic	е Туре	•	
Manufacturer's Name	Generic				<u>B</u> y Cus	tomer's Devi	ісе Туре		
Printer Model	test 8			_	<u>B</u> y SAP	' Note			
Language Group	IS08859-1	, WESTERN EUROPEAN (LA	FIN-1)		By Ren	nark			
Remark	for testing th	ne wizard			_	Reference	BAP Note	1	
elect a Device Type									
Default	A008	(not exist on the syst	em)						
Alternative	A001	(not exist on the syst	em)						
🔵 Customer's									

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.

📴 Device Type Information		⊠ ∕
Device Type	I9SWIN	
Description	MS Windows driver, Turkish	
Driver	SWIN	
Codepage	1634	
Additional Print Options	NO	V

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

185WIN	83502
I9SWIN	83600
THSAPWIN THSWINU	83 Clear Printer List
CNSAPWIN	83 Sort Printer List
TWSAPWIN	83 Select
HKSAPWIN	83 Select and Get Detail Information
JPSAPWIN	83 Display Note (open a browser)

#### 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.

Select a Device Type	
Default	I9SWIN
OAlternative	
O Customer's	
✓× 具 🗈 🔳	

#### 2.7. Double-clickable area

The following areas are double-clickable.

🖻 Device Type Selection						×
Select Criteria Manufacturer's Name Language	E Sr	now Printers	Da	ataset Vers	ion: 20070919	
Select a Printer						
Printer Model	Dev Type	Alternative	Customer's	SAP Note	Remark	
Printer Model						
Language Group			Unicode Pr	inting		
Remark			Reference	SAP Note		
Select a Device Type						
✓ × ➡ ₽						

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.

Device Type Selection							×
Select Criteria				_			_
Manufacturer's Name	1			Da	ataset Vers	ion: 20070919	3
Language	1	🚹 Sh	now Printers				
/							_
Select a Printer							
Printer Model		Dev Type	Alternative	Customer's	SAP Note	Remark	٦
							۳Ľ.
						<b>_</b>	
							▲ ▼
Manufacturer's Name							
Printer Model							1
Language Group				Unicode Pr	inting		j
Remark				Reference	SAP Note		
Select a Device Type							
Default							
O Alternative O Customer's							
Ocasiomers							
✓ ×							

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-yyymmdd.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.

📴 Table Update	× /
XML File Name	C2
<ul><li>✓ ×</li></ul>	

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.

Open				? 🛛 🖊
Look in:	C WORK		) 🌶 🖻 🖽	
Recent Desktop My Documents WDFN001908	[] 2007 (≌] tspopi-20070	730.xml		
My Network PI	File <u>n</u> ame:	tspopi-*.xml		<u>O</u> pen
My Network 1	Files of type:	All Files (*.*)	۵	Cancel

# 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.

Select a Device Type	
🖲 Default	
OAlternative	
O Customer's	
🖌 🗙 🖶 🔁 🔳	

Then the instructions appears.

C Device Type Installation
Installation Instructions
If you have already downloaded device types from SAP Notes, click OK button.
If you haven't, download device types as follows:
1 Click Cancel button to go back to the wizard screen.
2 Select a printer.
3 Right click on an SAP Note number.
4 Select "Display Note". Then an internet browser opens up.
5 Click "Attachments". Then download a required ZIP file to a local PC.
6 Unzip the file on the PC if it contains several device types.
7 Repeat steps 2 to 6 for required device types.
8 Then, come back here to install device types.

# 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