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.
- Supported Multiple language groups
- The Printer Model
- 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.

If the database tables have been updated already, the device type selection screen appears.
The button names are as follows:

- “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)

The table control has the following buttons (Chapter 2.8)

- “Refresh” button
- “Select and Get Detail Information” button
- “Sort” button
- “Delete selected Printer” button
- “Clear Printer List” button
- “Display supported Languages”
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.
Then, available printers (recorded in table TSPOPIP) are listed up.

<table>
<thead>
<tr>
<th>Printer Model</th>
<th>Device Type</th>
<th>Alternative</th>
<th>Customer</th>
<th>SAP Note</th>
<th>Supported Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASCII printer, 7-bit ASCII</td>
<td>ASCIIPRN</td>
<td>ZSWINCF</td>
<td>810284</td>
<td>810284</td>
<td>For cascading font printing only. See also</td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>SWINCF</td>
<td>812021</td>
<td>812021</td>
<td>812021</td>
<td>Arabic printing only.</td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>I2SWINCF</td>
<td>830502</td>
<td>830502</td>
<td>830502</td>
<td>See also 847514 for TH5WINU.</td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>I4SWINCF</td>
<td>784955</td>
<td>784955</td>
<td>784955</td>
<td></td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>SAPWINCF</td>
<td>4229943</td>
<td>4229943</td>
<td>4229943</td>
<td></td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>ARSWINCF</td>
<td>809034</td>
<td>809034</td>
<td>809034</td>
<td></td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>I7SWINCF</td>
<td>830502</td>
<td>830502</td>
<td>830502</td>
<td></td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>II5WINCF</td>
<td>830502</td>
<td>830502</td>
<td>830502</td>
<td></td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>IR5WINCF</td>
<td>830502</td>
<td>830502</td>
<td>830502</td>
<td></td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>TH5AP..</td>
<td>TH5WINU</td>
<td>830502</td>
<td>830502</td>
<td></td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>CNSAP..</td>
<td>830502</td>
<td>830502</td>
<td>830502</td>
<td></td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>TV5AP..</td>
<td>830502</td>
<td>830502</td>
<td>830502</td>
<td></td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>H5AP..</td>
<td>830502</td>
<td>830502</td>
<td>830502</td>
<td></td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>JP5AP..</td>
<td>830502</td>
<td>830502</td>
<td>830502</td>
<td></td>
</tr>
<tr>
<td>Windows PC Printer (frontend printing)</td>
<td>KB5AP..</td>
<td>830502</td>
<td>830502</td>
<td>830502</td>
<td></td>
</tr>
</tbody>
</table>
Double-click on one of the lines or click on the ‘Select and Get Detail Information’ function of the Alv Grid or the context menu. 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.

The icons next to the fields are visible and can be linked to related information, as soon as the field’s information are available. This can be done by double clicking on the field or the icon.

By clicking on the ‘OK’ button, the selected device type will be notified to SPAD.
<table>
<thead>
<tr>
<th>Device Type</th>
<th>SWINCF: Desk.Fonts SAP Win Unicode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Class</td>
<td>Standard printer</td>
</tr>
</tbody>
</table>
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.

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. "Multiple Language Groups" in the Language pull-down menu

“Multiple Language Groups” appears only 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):’)
For Printers which support more than one Language Group. The language group should be listed in the first part of the ‘MIBINFO’ field. The comma(,) separates the supported language group.
When you select "Multiple Language Groups", a list of language groups will appear by clicking the ‘Show Printers’ Button.

By clicking on the ‘OK’ button, the printers that support the selected Language Groups will be listed up.
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.

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 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.
2.5. Non-existing device types

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

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.
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.

2.8 ALV Grid functions of the toolbar

The ALV Grid consists of generic functions of the toolbar and the following Self-Defined functions:
- “Delete selected Printer” is used to remove the selected printer from the list
- “Clear Printer List” to remove all the printers from the list
- “Select and Get Detail Information” is used to select and display the details information of the selected printer. The details Information will appear in the input fields.
- “Display supported Languages” can show the supported languages of the selected printer.
- “Refresh” is used to re-select the whole printers according to the select criteria after you remove a printer or clear all printer from the list.
- “Sort” has 2 submenu functions: ‘Unicode fonts’ and ‘SNMP job status feedback’. These functions are used to filter the printers of the list.

2.9. 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-yyyyymmdd.xml where yyyyymmdd is the date of the file creation. (The xml file is zipped so the actual attached file names are tspopi-yyyyymmdd.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-yyyyymmdd.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.

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

<table>
<thead>
<tr>
<th>Note ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1036961</td>
<td>Device type selection in transaction SPAD</td>
</tr>
<tr>
<td>964501</td>
<td>Printing Assistant for Landscape (PAL)</td>
</tr>
<tr>
<td>1049778</td>
<td>Additional print options for SAPscript/Smart Forms</td>
</tr>
<tr>
<td>6427</td>
<td>Information about device type upload/download</td>
</tr>
</tbody>
</table>