

TOSHIBA

MULTIFUNCTIONAL DIGITAL SYSTEMS

SAP R/3 Printing Device Type File Installation Guide

 e-STUDIO230/280

 e-STUDIO200L/230/280

 e-STUDIO202L/232/282

Table of Contents

1. Introduction	1
1.1 SAP Printing Environment	1
2. Installation	2
3. Verification of Device Type File	10
4. Creation of Output Device	14
5. Verification of Output Device	20
6. Specific Features and Configuration	22
6.1 Input Tray Selection	22
6.2 Output Tray Selection	22
6.3 Paper Selection	22
6.4 Duplex Selection	23
6.5 Orientation Selection	23
6.6 Hole Punch	23
6.7 Stapling Function	24
6.8 Private Print	24
6.9 Proof Print.....	24
6.10 Booklet and Saddle Stitch.....	25
6.11 Department Code.....	25
6.12 BOX Mode	26

<Trademarks>

SAP, R/3, mySAP, mySAP.com, xApps, xApp, SAP NetWeaver, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and in several other countries all over the world. All other product and service names mentioned are the trademarks of their respective companies.

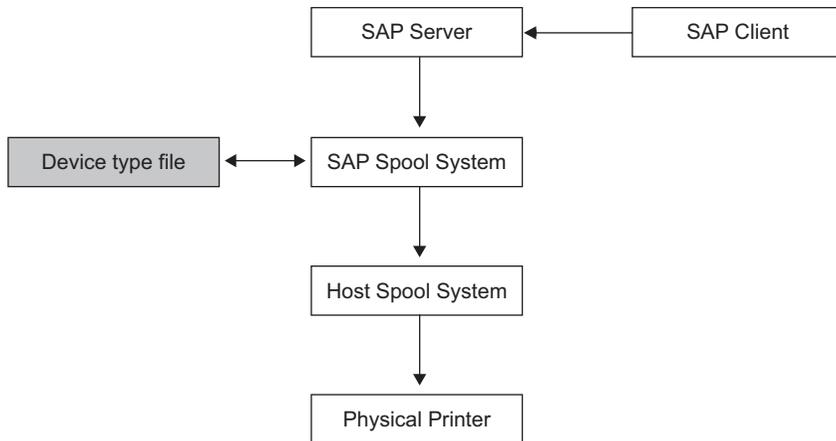
<Warning>

You may not, nor cause or permit any third party to, modify, adapt, merge, translate, reverse compile, reverse assemble, or reverse engineer the Software. You may not use the Software, except in accordance with this license. No title to the intellectual property in the Software is transferred to you and full ownership is retained by TTEC or its suppliers. Source code of the Software is not licensed to you. You will be held legally responsible for any copyright infringement, unauthorized transfer, reproduction or use of the Software or its documentation.

1. Introduction

This document describes the step-wise procedure to install and configure the device type for e-STUDIO 280/282 Series printers in SAP R/3. SAP administrator can implement the printer specific features by inserting the necessary PJI/PCL commands given in the Device configuration section.

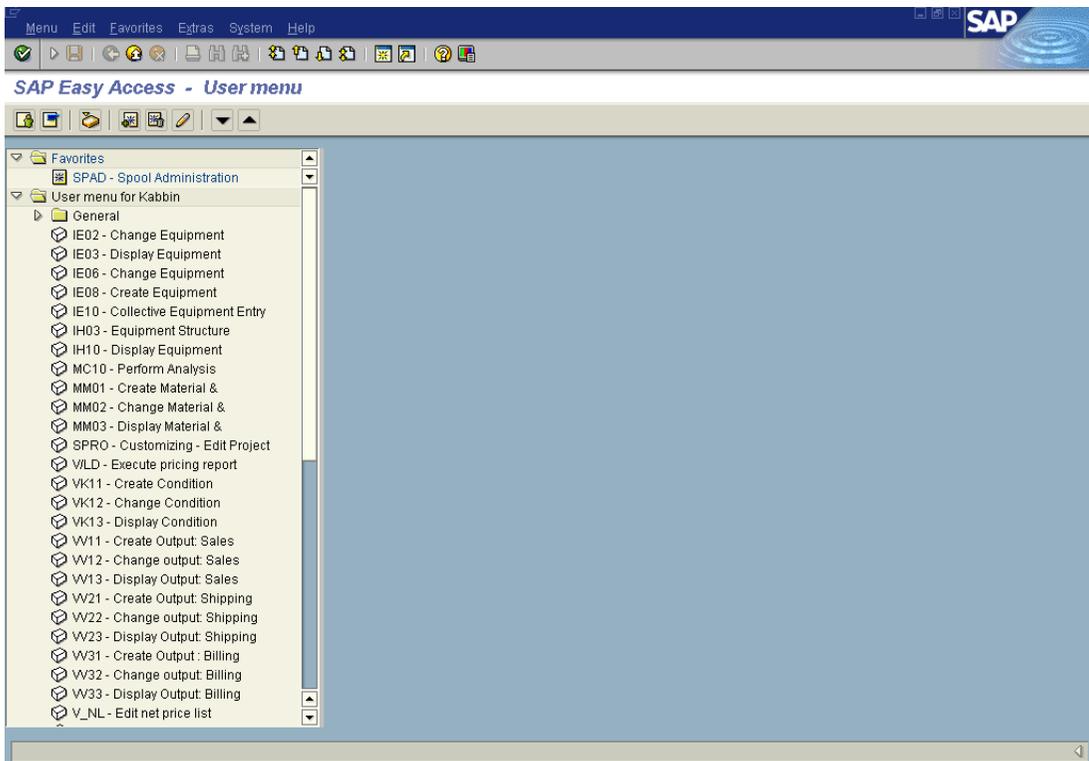
1.1 SAP Printing Environment



1. SAP Client raises the print Request.
2. SAP Server will pass on the request to SAP spool system based on type of printer selected by the Client program.
3. SAP spool system will consult Device type file (.PRI File) corresponding to the output device. Based on configuration and control information present in Device type file, it will generate Printing data and Control Information.
4. Based on the "Access method" configured for the output device, SAP Printing Subsystem will operate in the respective way.

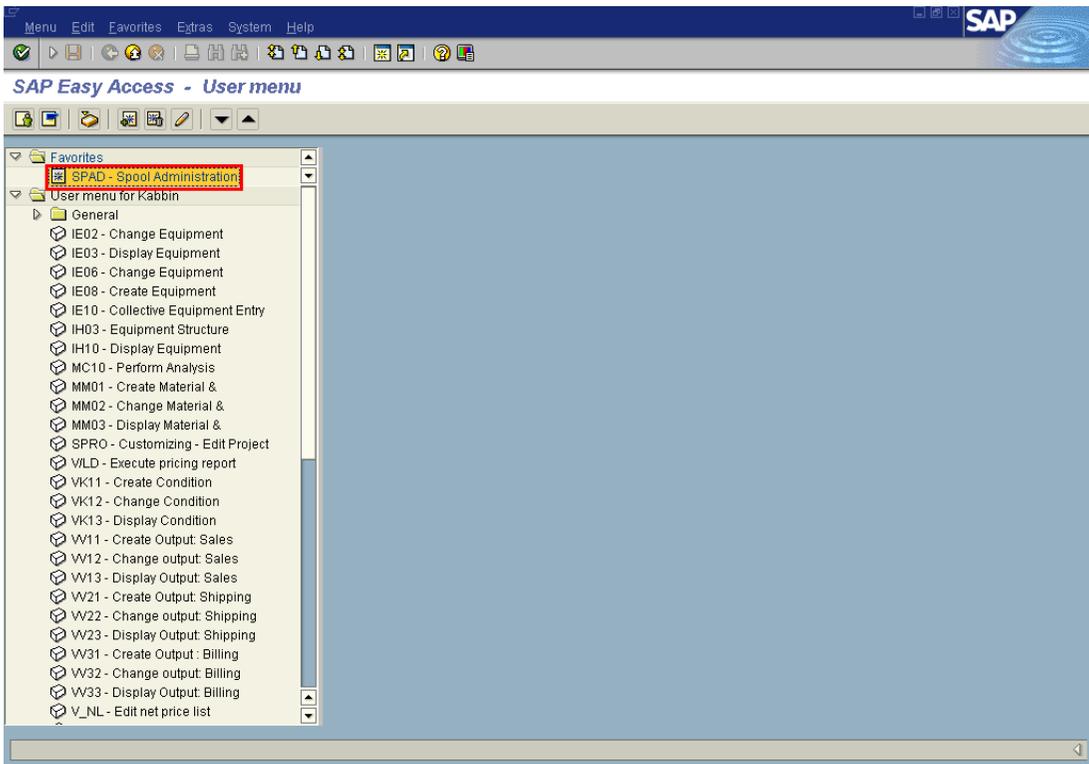
2. Installation

To install a new device type into SAP, follow the procedure described below.
After you have logged on to SAP, the following screen is displayed.



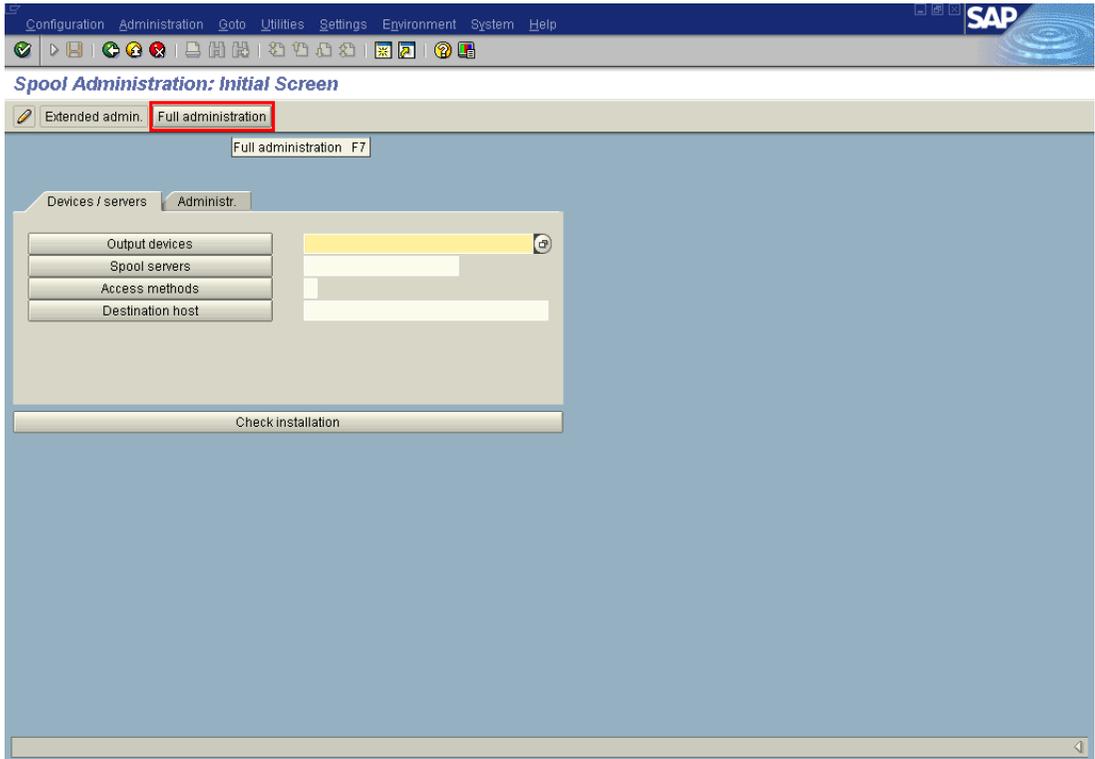
© Copyright 2006 SAP AG, All rights reserved.

Click on the “Spool Administration” tab.



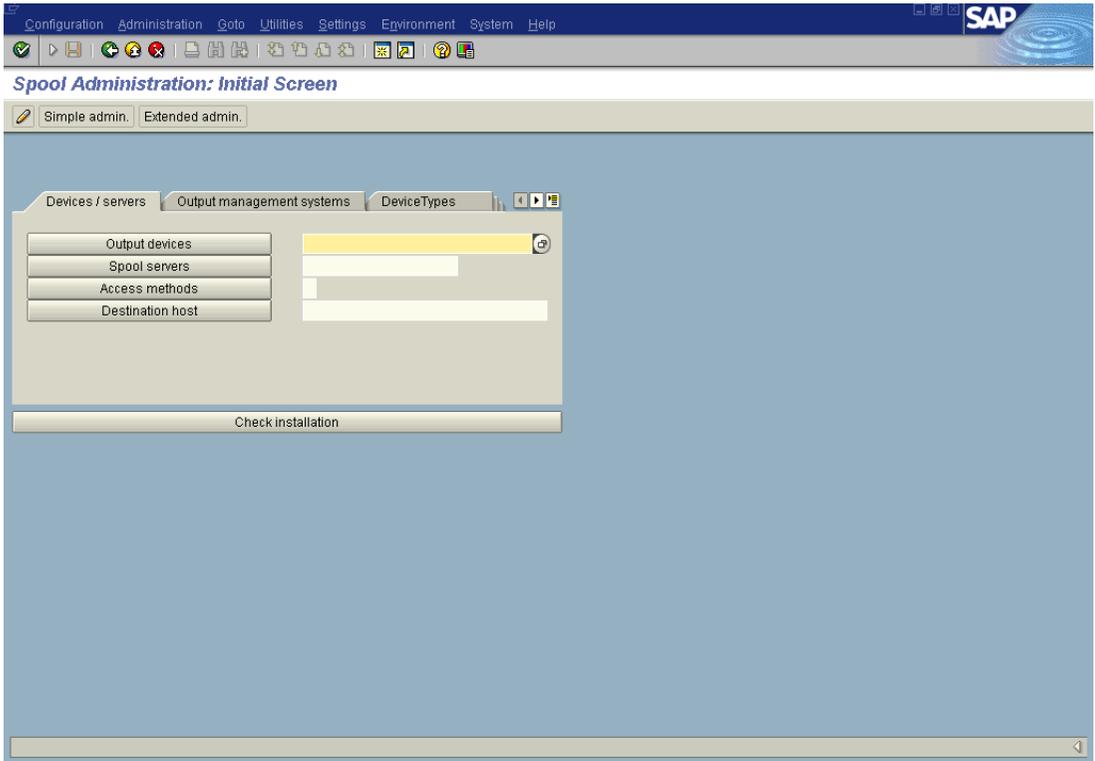
© Copyright 2006 SAP AG, All rights reserved.

Once you Press enter the following screen is displayed.



© Copyright 2006 SAP AG, All rights reserved.

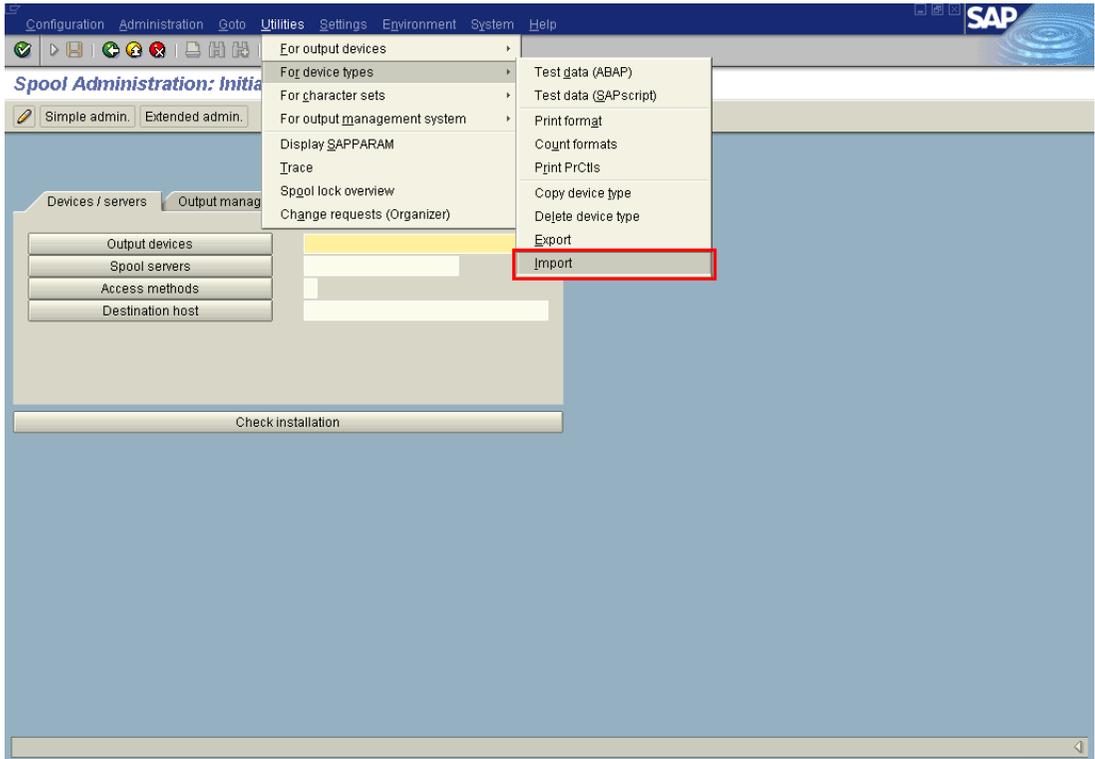
Press on the push-button **“Full administration”**. The following screen is displayed.



© Copyright 2006 SAP AG, All rights reserved.

In the menu bar, go to **“Utilities”** → **“For device types”** → **“Import”** as displayed in the following screen.

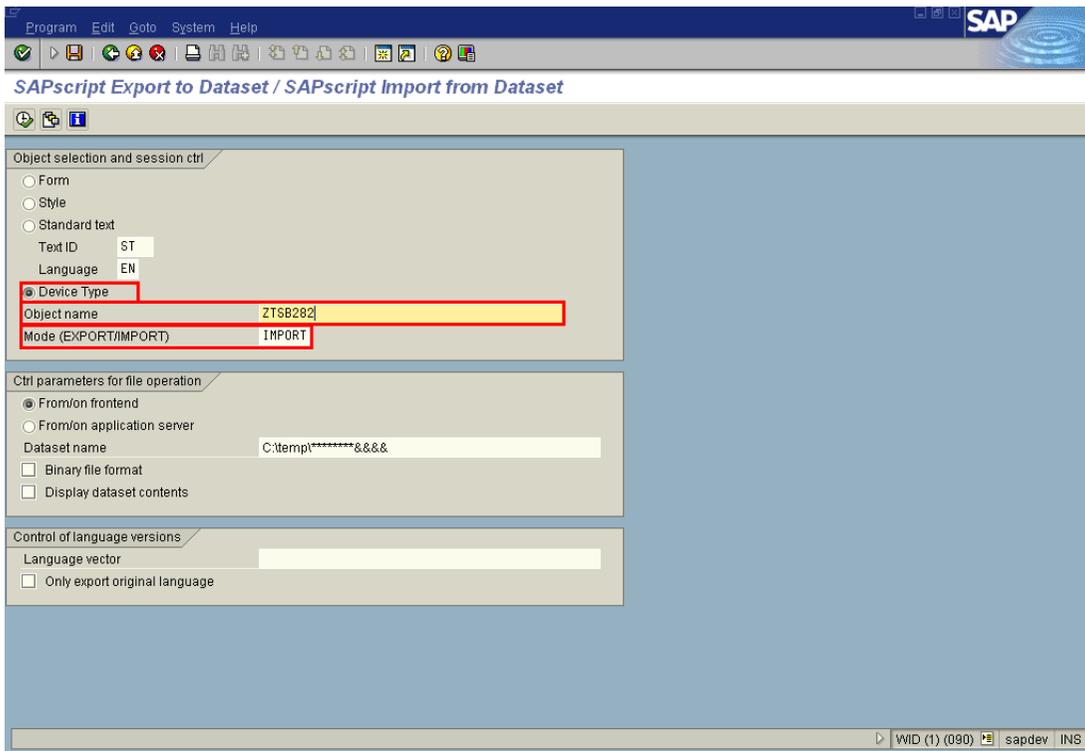
2. Installation (Cont.)



© Copyright 2006 SAP AG, All rights reserved.

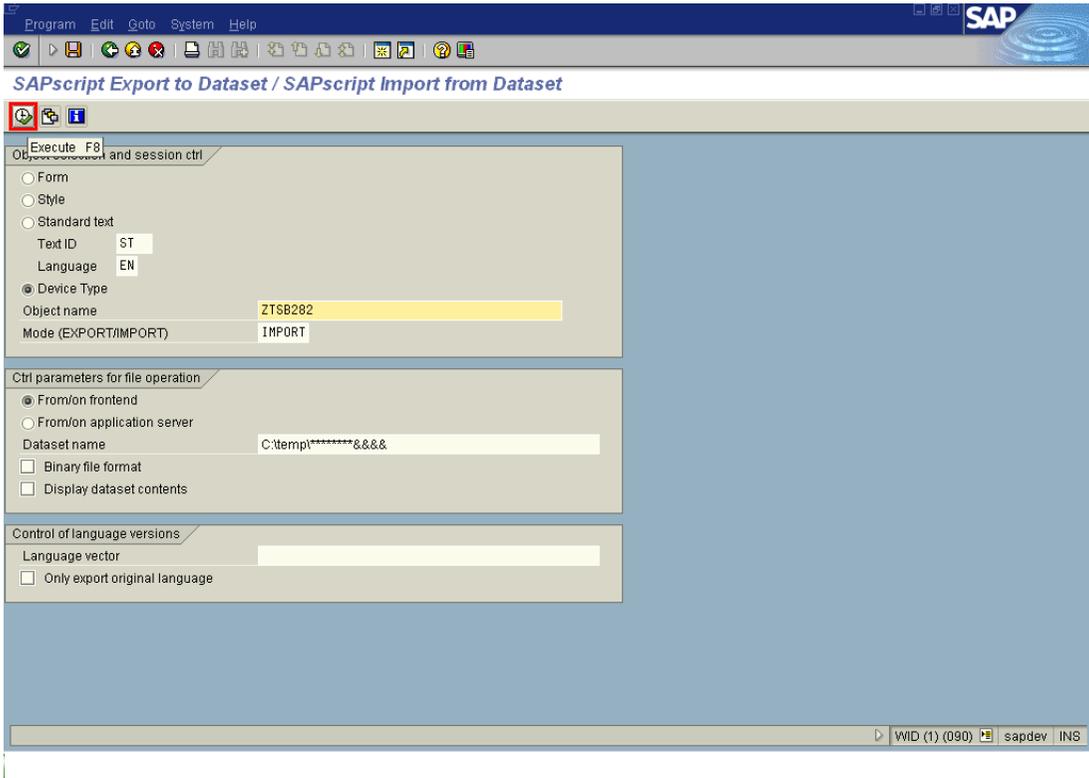
Once you press “**Import**”, the following screen is displayed.

Select the radio button “**Device Type**” and enter the name of the device type (.PRI) file without file extension in the input field box “**Object name**”. (E.g. if the device type file name is ZTSB282.pri only ZTSB282) as shown in the screen below. Make sure the entry in the field **Mode (EXPORT/IMPORT)** is written as “**IMPORT**”.



© Copyright 2006 SAP AG, All rights reserved.

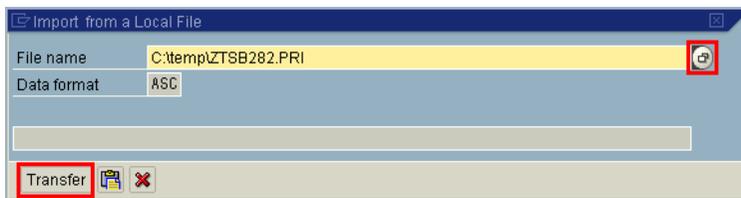
2. Installation (Cont.)



© Copyright 2006 SAP AG, All rights reserved.

Press "F8" to proceed with import.

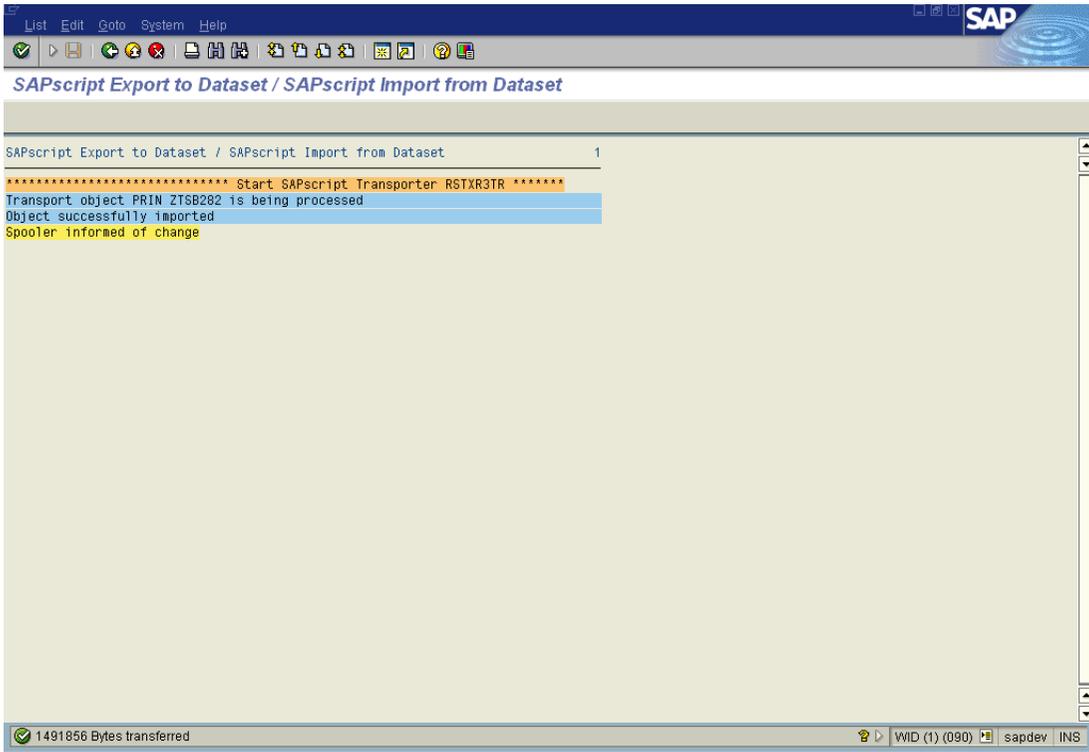
To locate the ZTSB282.PRI on local system, **Press** this button.



© Copyright 2006 SAP AG, All rights reserved.

After locating PRI file, the screen displayed would be as above. Import process will start as soon as **Transfer** is pressed.

On successful completion of import, the following message would be displayed.

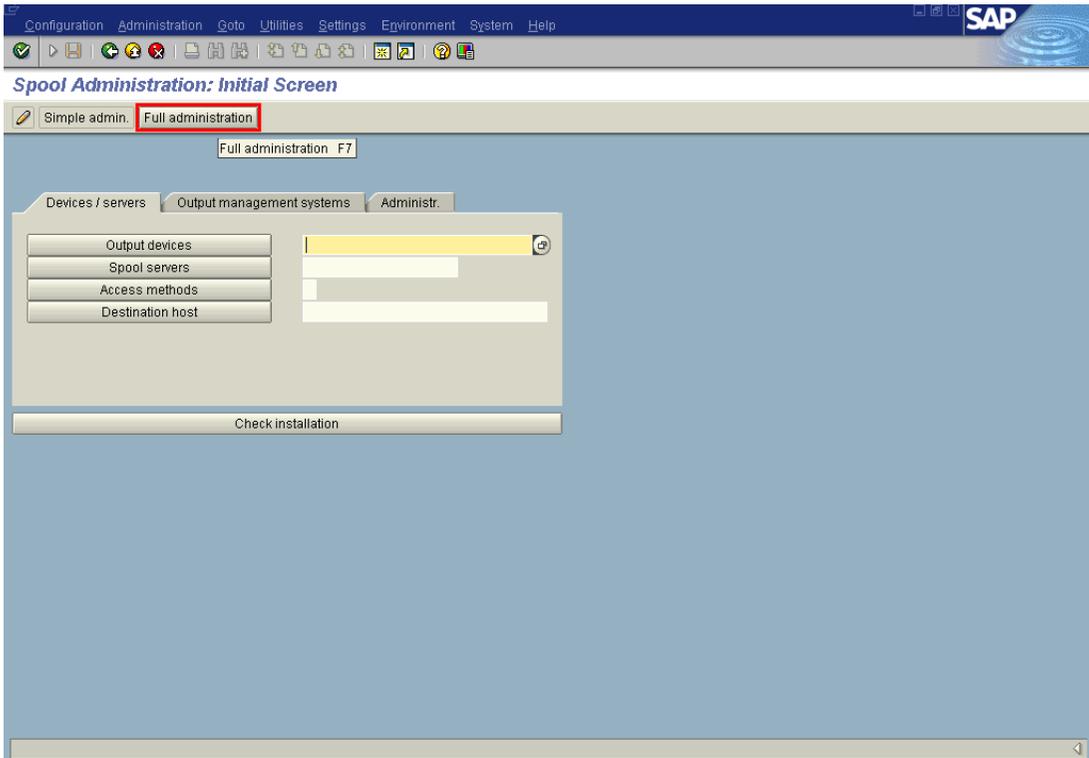


© Copyright 2006 SAP AG, All rights reserved.

3. Verification of Device Type File

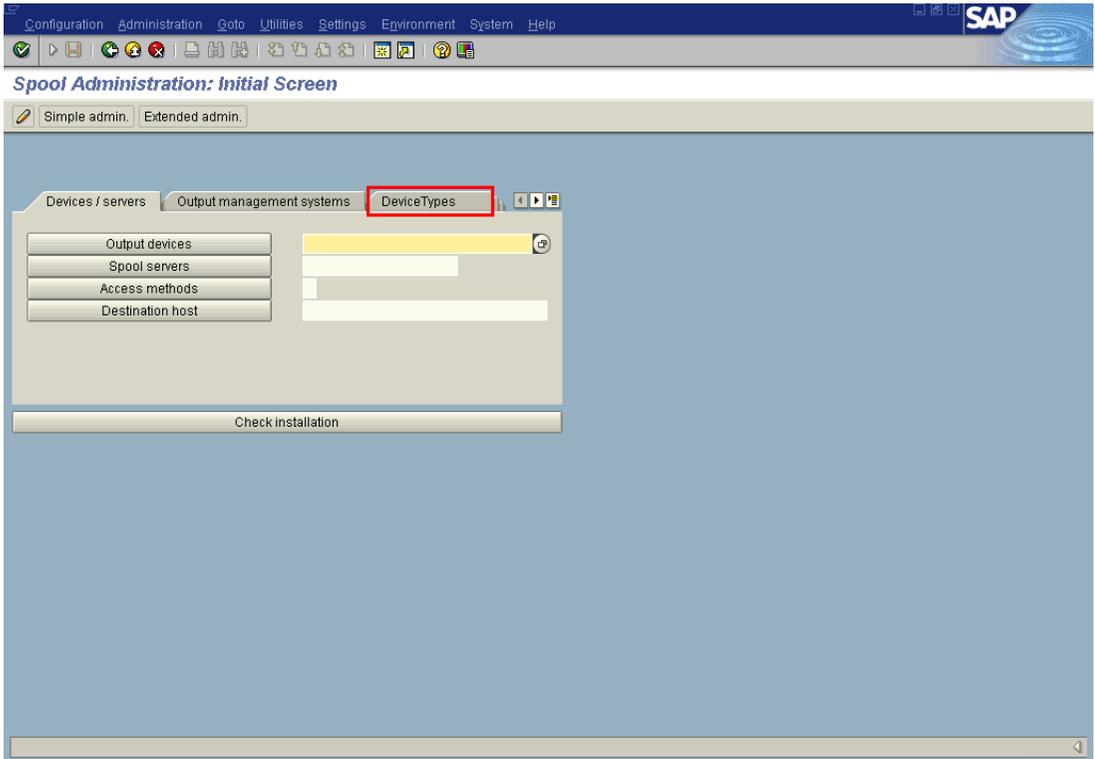
Once the device type is imported, it needs to be verified whether the newly imported device type appears in the standard list of all device types in SAP R/3 or not. To verify this same, follow the steps given below.

In the initial screen of SAP, type the transaction code “**SPAD**” in the command window and press “Enter”, the following screen is displayed.



© Copyright 2006 SAP AG, All rights reserved.

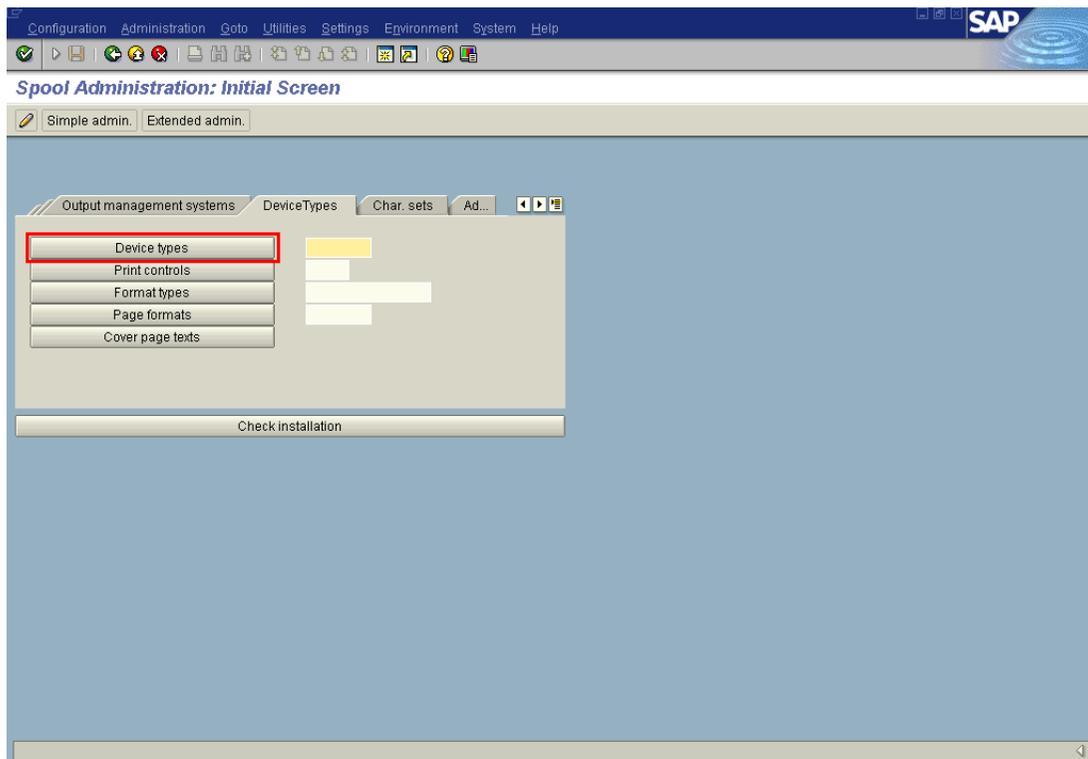
Click on **Full administration** and the following screen will be displayed.



© Copyright 2006 SAP AG, All rights reserved.

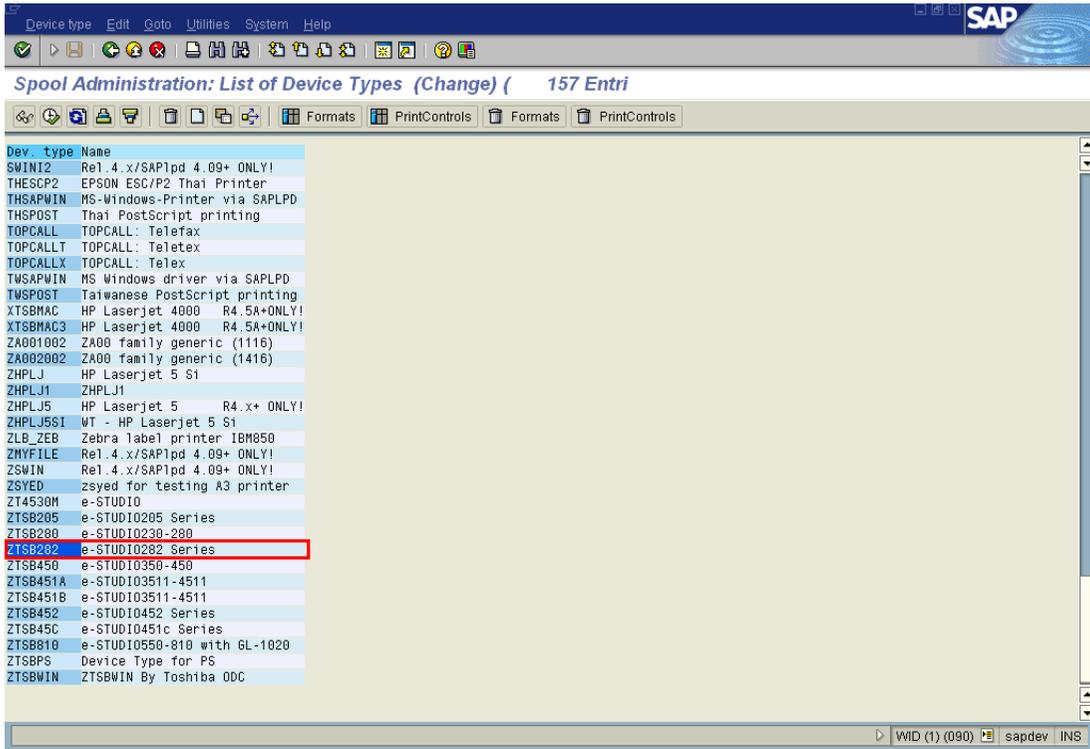
Click on the **Device Types**.

3. Verification of Device Type File (Cont.)



© Copyright 2006 SAP AG, All rights reserved.

On clicking on **Device types**, list of device types will be displayed as in following screen.



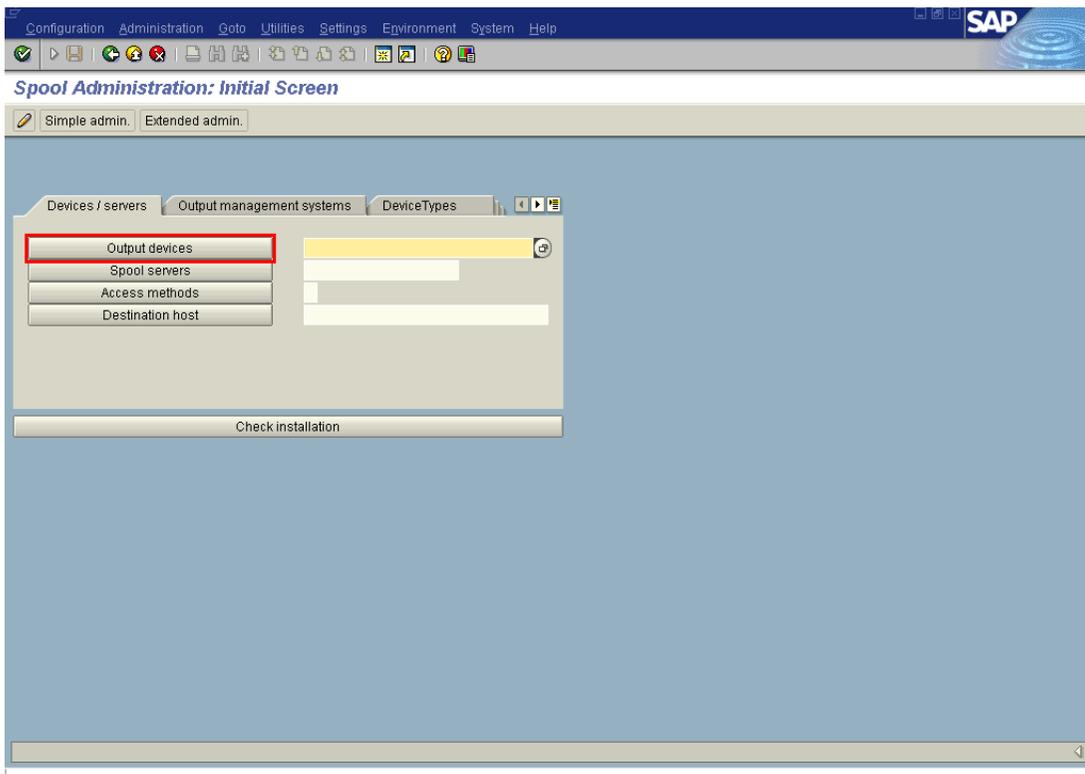
© Copyright 2006 SAP AG, All rights reserved.

The newly imported device type **ZTSB282** should appear in this list of device type. If the **ZTSB282** is not displayed, it implies that import has not been successful for which the Installation procedure described earlier needs to be repeated and verified.

4. Creation of Output Device

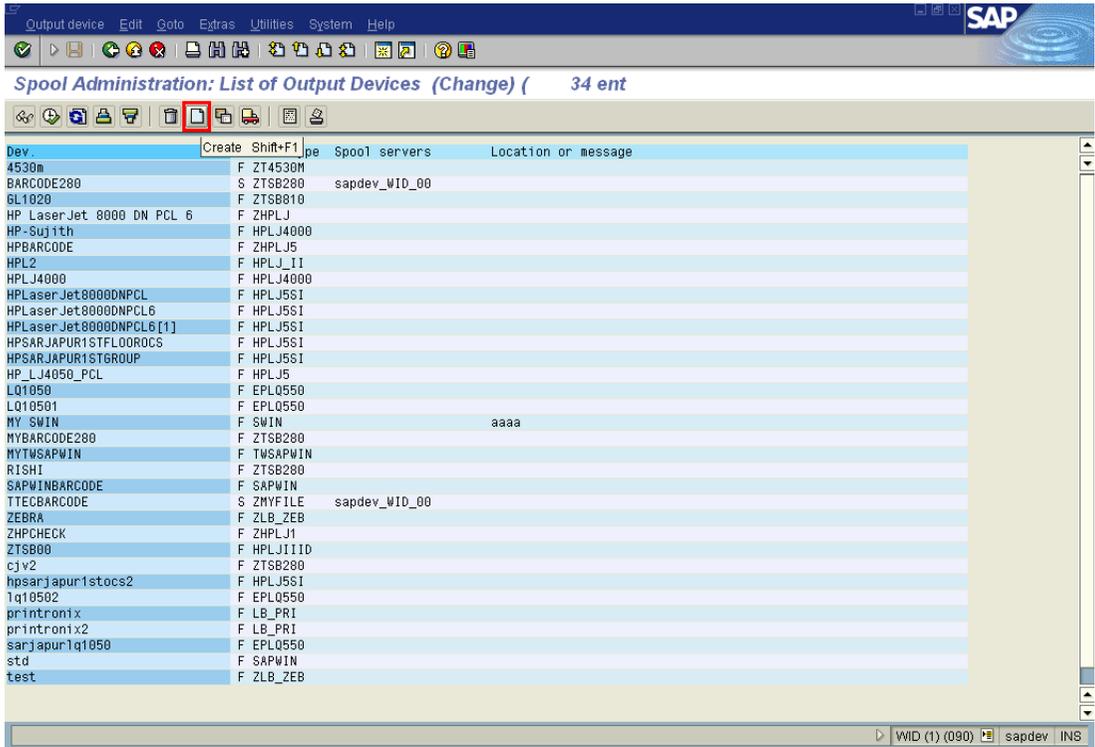
In SAP R/3, a device type needs to be assigned to an Output device to utilise its printing features. Follow the procedure describe below to create an output device and assign a device type to it.

In the initial screen of SAP, type the transaction code “SPAD” in the command window and press “Enter”, the following screen is displayed.



© Copyright 2006 SAP AG, All rights reserved.

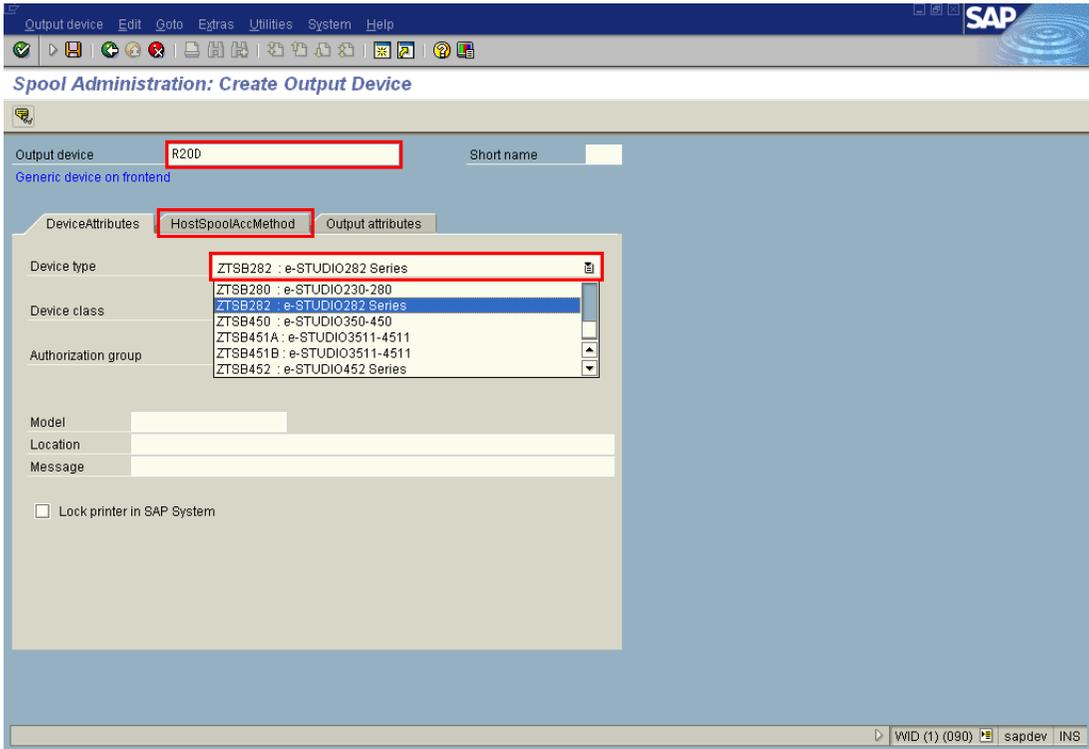
Click on the “**Output devices**” and the following screen is displayed.



© Copyright 2006 SAP AG, All rights reserved.

Press on the “Create” button, the following screen will be displayed.

4. Creation of Output Device (Cont.)



© Copyright 2006 SAP AG, All rights reserved.

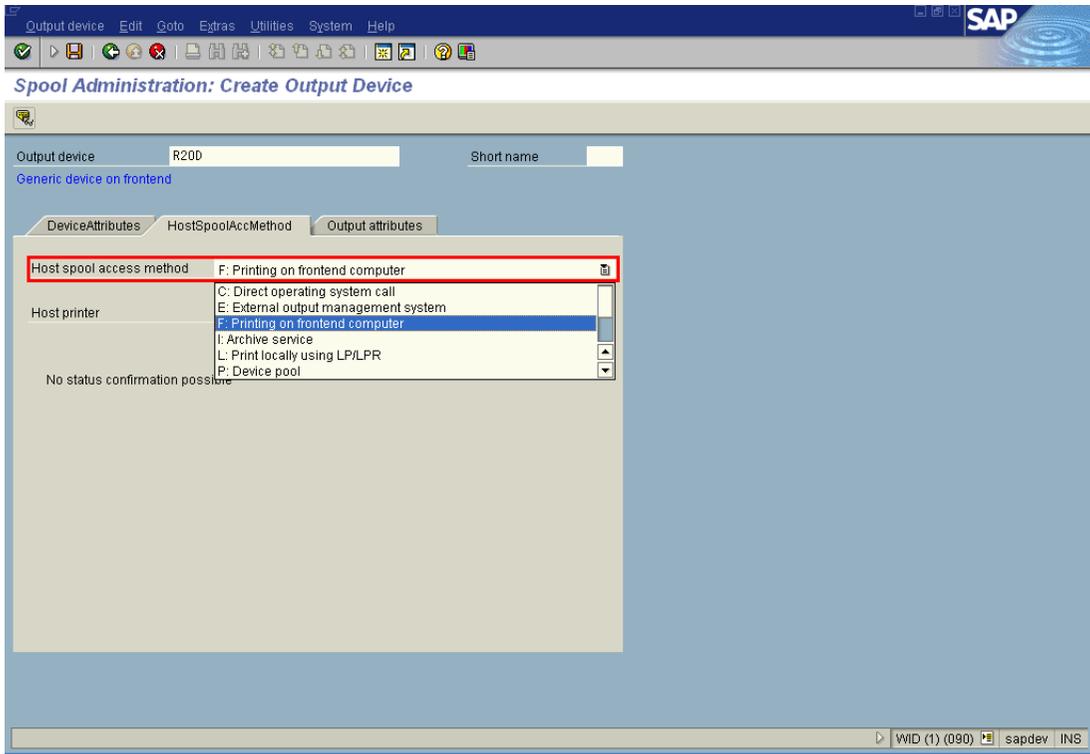
Enter the printer name (**R20D** in the above mentioned example)

Associate output device **ZTSB282: e-STUDIO282** device type.

Make sure Device class is "Standard printer".

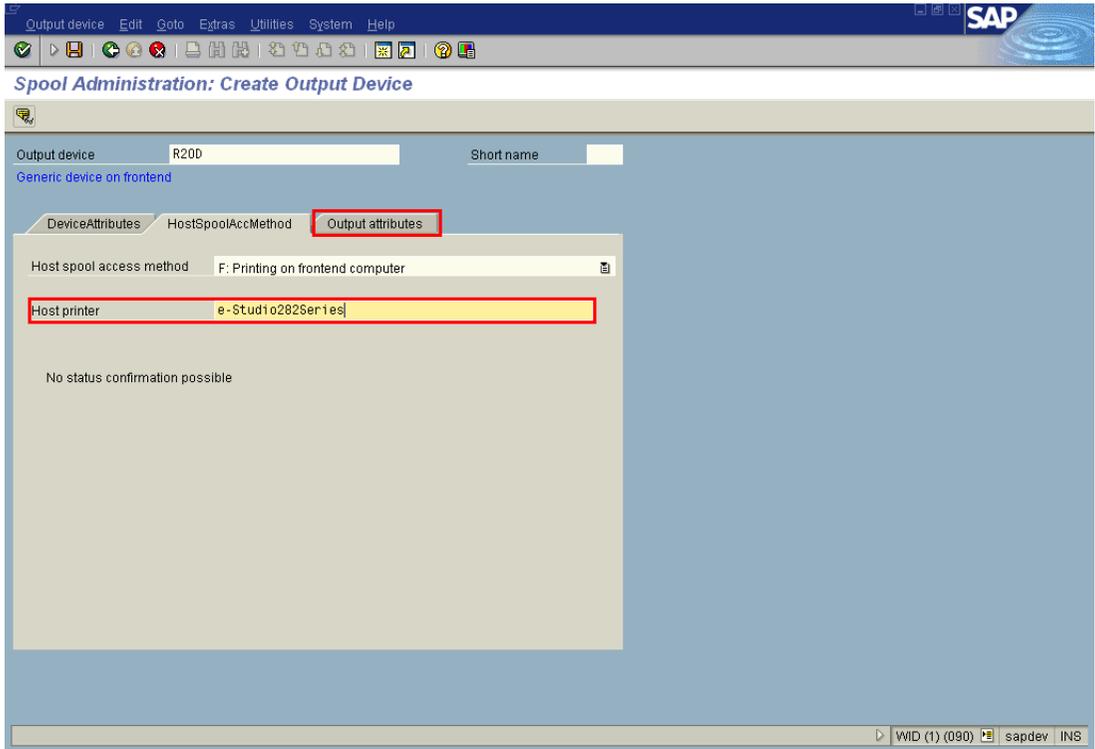
Click "**HostSpoolAccMethod**" to visit next part of output device configuration as shown in following screen.

Subsequently choose the appropriate “**Host spool access method**” in the screen displayed below. Here it is selected as “**F**”.



© Copyright 2006 SAP AG, All rights reserved.

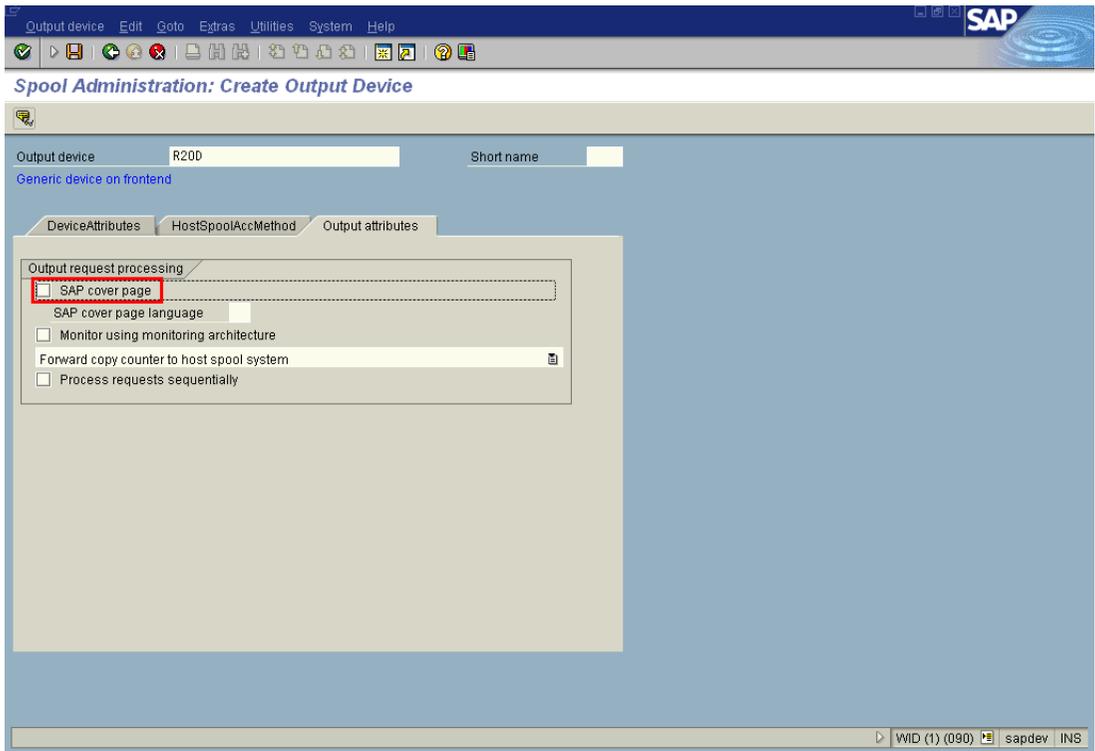
4. Creation of Output Device (Cont.)



© Copyright 2006 SAP AG, All rights reserved.

Enter the **Host printer** name **e-Studio282Series**.

Click on **Output attributes** to visit, next part of output device configuration.



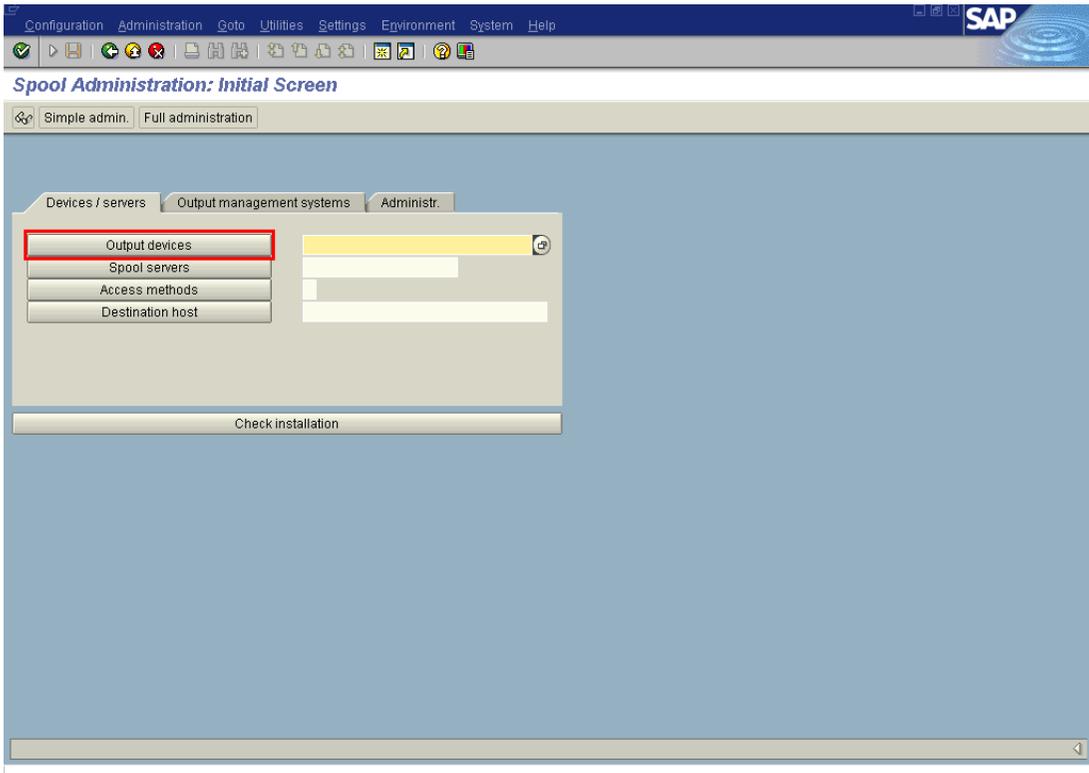
© Copyright 2006 SAP AG, All rights reserved.

(Optional), Administrator can enable printer for printing **cover page** by checking this check box. Press **“SAVE”** and the Output device will be created.

5. Verification of Output Device

Once the output device is created, it needs to be verified whether the newly created output device appears in the standard list of all output device in SAP R/3 or not. To verify this same, follow the steps given below.

In the initial screen of SAP, type the transaction code “SPAD” in the command window and press “Enter”, the following screen is displayed.



© Copyright 2006 SAP AG, All rights reserved.

Click on the **Output devices** to get list of all output device configured on the SAP/R3 system. Newly created output device **R2OD** should appear in this list.

Dev.	Dev. type	Spool servers	Location or message
HP LaserJet 8000 DN PCL 6	F	ZHPLJ	
HP-Sujith	F	HPLJ4000	
HPBARCODE	F	ZHPLJ5	
HPL2	F	HPLJ_II	
HPLJ4000	F	HPLJ4000	
HPLaserJet8000DNPCL	F	HPLJ51	
HPLaserJet8000DNPCL6	F	HPLJ51	
HPLaserJet8000DNPCL6[1]	F	HPLJ51	
HPSARJAPUR1STFLDOROC5	F	HPLJ51	
HPSARJAPUR1ST6ROUP	F	HPLJ51	
HP_LJ4050_PCL	F	HPLJ5	
HR00	F	ZTSB452	
LQ1050	F	EPLQ550	
LQ1050I	F	EPLQ550	
MY_SWIN	F	SWIN	aaaa
MYBARCODE200	F	ZTSB200	
MYTWSAPWIN	F	TWSAPWIN	
R2OD	F	ZTSB202	
R1SHI	F	ZTSB200	
SAPWINBARCODE	F	SAPWIN	
TTECBARCODE	S	ZMYFILE	sapdev_WID_00
ZEBRA	F	ZLB_ZEB	
ZHPCHECK	F	ZHPLJ1	
ZTSB00	F	HPLJ111D	
cjv2	F	ZTSB200	
hpsarjapur1stocs2	F	HPLJ51	
lq10502	F	EPLQ550	
printronix	F	LB_PRI	
printronix2	F	LB_PRI	
sarjapur1q1050	F	EPLQ550	
std	F	SAPWIN	
test	F	ZLB_ZEB	
zsyed	F	ZSYED	

© Copyright 2006 SAP AG, All rights reserved.

Newly created output device **R2OD** should appears in the list. If newly created output device (NEW) is now displayed in the list, repeat the process of creating output device.

6. Specific Features and Configuration

6.1 Input Tray Selection

No PjL control is available, so it should be implemented using PCL escape command sequence.

Automatic	<esc>&l17H
Drawer 1	<esc>&l01H
Drawer 2	<esc>&l4H
LCF	<esc>&l5H
Drawer 3	<esc>&l5H
Drawer 4	<esc>&l21H
Bypass Tray	<esc>&l2H

6.2 Output Tray Selection

Following PjL would be used to achieve vaNewus OUTPUT Tray Selection:

Output Tray 1

@PjL SET OUTBIN=OPTIONALOUTBIN1

Output Tray 2

@PjL SET OUTBIN=OPTIONALOUTBIN2

Inner tray

@PjL SET OUTBIN=UPPER

Job Separator Upper

@PjL SET OUTBIN=OPTIONALOUTBIN4

Job Separator Lower

@PjL SET OUTBIN=OPTIONALOUTBIN5

6.3 Paper Selection

This control is accomplished using following PjL.

#@PjL SET PAPER=<PageCode>

Paper Size	Page Code
A3	A3
A4	A4
A5	A5
B4	B4
B5	B5
LETTER	LETTER
LEGAL	LEGAL
LEDGER	LEDGER
STATEMENT	STATEMENT
FOLIO	FOLIO
COMPUTER	COMPUTER
8.5 inch Square	SQ85
13 inch Legal	LEGAL13

6.4 Duplex Selection

Following PJL would be used to achieve vaNewus duplex selections:

No Duplex

@PJL COMMENT DSSC PRINT DUPLEX=0

Long Edge Duplex

@PJL COMMENT DSSC PRINT DUPLEX=1

Short Edge Duplex

@PJL COMMENT DSSC PRINT DUPLEX=2

6.5 Orientation Selection

Following PJL would be used to achieve vaNewus duplex selections:

Portrait

@PJL COMMENT DSSC PRINT ORIENTATION=0

Landscape

@PJL COMMENT DSSC PRINT ORIENTATION=1

6.6 Hole Punch

Following PJL would be used to achieve control over Hole-punching:

No Hole Punch

@PJL COMMENT DSSC PRINT HOLEPUNCH=0

Hole Punch Long Edge without Rotation

@PJL COMMENT DSSC PRINT HOLEPUNCH=1

Hole Punch Short Edge without Rotation

@PJL COMMENT DSSC PRINT HOLEPUNCH=2

Hole Punch Long Edge with 180 degree Rotation

@PJL COMMENT DSSC PRINT HOLEPUNCH=3

Hole Punch Short Edge with 180 degree Rotation

@PJL COMMENT DSSC PRINT HOLEPUNCH=4

6.7 Stapling Function

Following PjL would be used to achieve control over Stapling:

Stapling Mode Top Left (Portrait) / Top Right (Landscape)
@PjL COMMENT DSSC PRINT STAPLING=769

Stapling Mode Left (Portrait) / Top (Landscape)
@PjL COMMENT DSSC PRINT STAPLING=2

Stapling Mode Bottom Left (Portrait) / Top Left (Landscape)
@PjL COMMENT DSSC PRINT STAPLING=33027

Stapling Mode Top Right (Portrait) / Bottom Right (Landscape)
@PjL COMMENT DSSC PRINT STAPLING=387

Stapling Mode Right (Portrait) / Bottom (Landscape)
@PjL COMMENT DSSC PRINT STAPLING=130

Stapling Mode Bottom Right (Portrait) / Bottom Left (Landscape)
@PjL COMMENT DSSC PRINT STAPLING=33665

Stapling Mode Top (Portrait) / Bottom (Landscape)
@PjL COMMENT DSSC PRINT STAPLING=512

Stapling Mode Bottom (Portrait) / Top (Landscape)
@PjL COMMENT DSSC PRINT STAPLING=33280

6.8 Private Print

Following two PjLs would be used to achieve Private Print:

@PjL COMMENT DSSC PRINT PRINTMODE=PRIVATE
@PjL COMMENT DSSC PRINT PRIVPRINT=nnnnn

Where nnnnn is a string of alphanumeric characters and symbol characteres (ASCII code characters between 0x21 to 0x7E).

The password must be between 1 to 17 characters.

6.9 Proof Print

Following PjL would be used to achieve Proof Print:

@PjL COMMENT DSSC PRINT PRINTMODE=PROOF

6.10 Booklet and Saddle Stitch

Booklet printing can be achieved using

```
@PJL COMMENT DSSC PRINT BOOKLET=LT
```

Saddle stitch can be achieved using

```
@PJL COMMENT DSSC PRINT STAPLING=1028
```

Booklet function is dependent on Short Edge Duplex printing, Saddle stitch, Left to Right Printing, and the type of paper to be used. Hole punching also needs to be disabled. Therefore, for Booklet printing, the following combination of commands needs to be enabled.

```
#@PJL COMMENT DSSC PRINT HOLEPUNCH=0
#@PJL COMMENT DSSC PRINT DUPLEX=2
#@PJL COMMENT DSSC PRINT STAPLING=1028
#@PJL COMMENT DSSC PRINT LEFTTORIGHT=1
#@PJL COMMENT DSSC PRINT BOOKLET=LT
#@PJL SET PAPER=<PageCode>
```

Paper Size	Page Code
A3	A3
A4	A4
A5	A5
B4	B4
B5	B5
LETTER	LT
LEGAL	LG
LEDGER	LD
STATEMENT	ST
FOLIO	FO
SQ85	SQ
13 inch Legal	13

6.11 Department Code

Following PJL would be used to have department code based access to the printer:

If Department code is NULL

```
@PJL COMMENT DSSC PRINT ACCESSCODE=
```

If Department Code is 5 digit number (nnnnn)

```
@PJL COMMENT DSSC PRINT ACCESSCODE=nnnnn
```

6.12 BOX Mode

Following combination of PJI would be used to have BOX mode printing:

For Public Box use 000, for private use three digit no

```
@PJI COMMENT DSSC PRINT PRINTMODE=BOX\r\n
```

```
@PJI COMMENT DSSC BOX BOXNO=nnn\r\n
```

```
@PJI COMMENT DSSC BOX BOXNAME=\r\n
```

```
@PJI COMMENT DSSC BOX BOX=1\r\n
```

If Private Box is used, then set 5digit BOX PASSWORD

```
@PJI COMMENT DSSC BOX BOXPASSWORD=12345\r\n
```

MULTIFUNCTIONAL DIGITAL SYSTEMS
SAP R/3 Printing Device Type File Installation Guide

e-STUDIO230/280

e-STUDIO200L/230/280

e-STUDIO202L/232/282

TOSHIBA TEC CORPORATION

2-17-2, HIGASHIGOTANDA, SHINAGAWA-KU, TOKYO, 141-8664, JAPAN