

TOSHIBA

MULTIFUNCTIONAL DIGITAL SYSTEMS

SAP R/3 Printing Device Type File Installation Guide

 e-STUDIO 205 Series

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 Paper Selection	22
6.3 Duplex Selection	23
6.4 Orientation Selection	23
6.5 Department Code	23

<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.

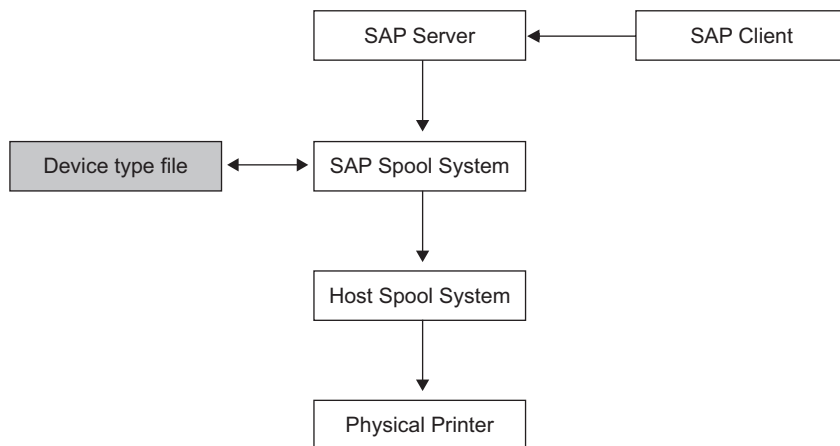
<Warning>

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 205 Series printers in SAP R/3. SAP administrator can implement the printer specific features by inserting the necessary PDL/PCL commands given in the Device configuration section.

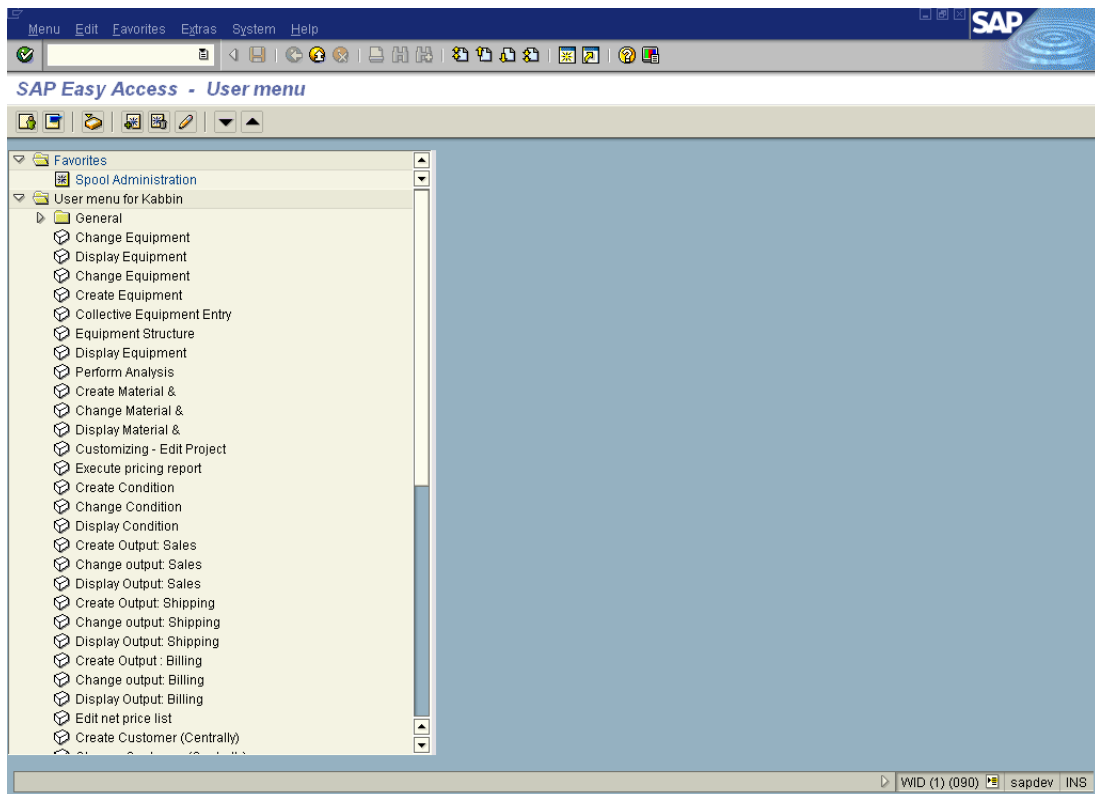
1.1 SAP Printing Environment



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.

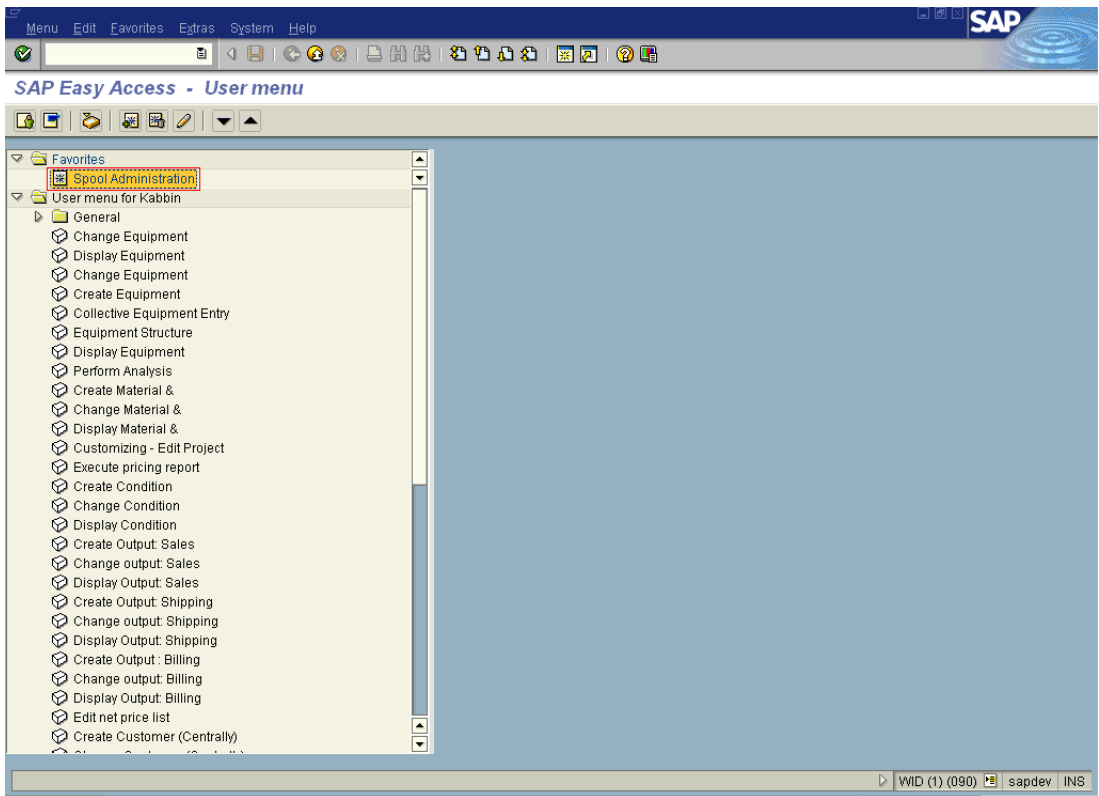
2. Installation

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.



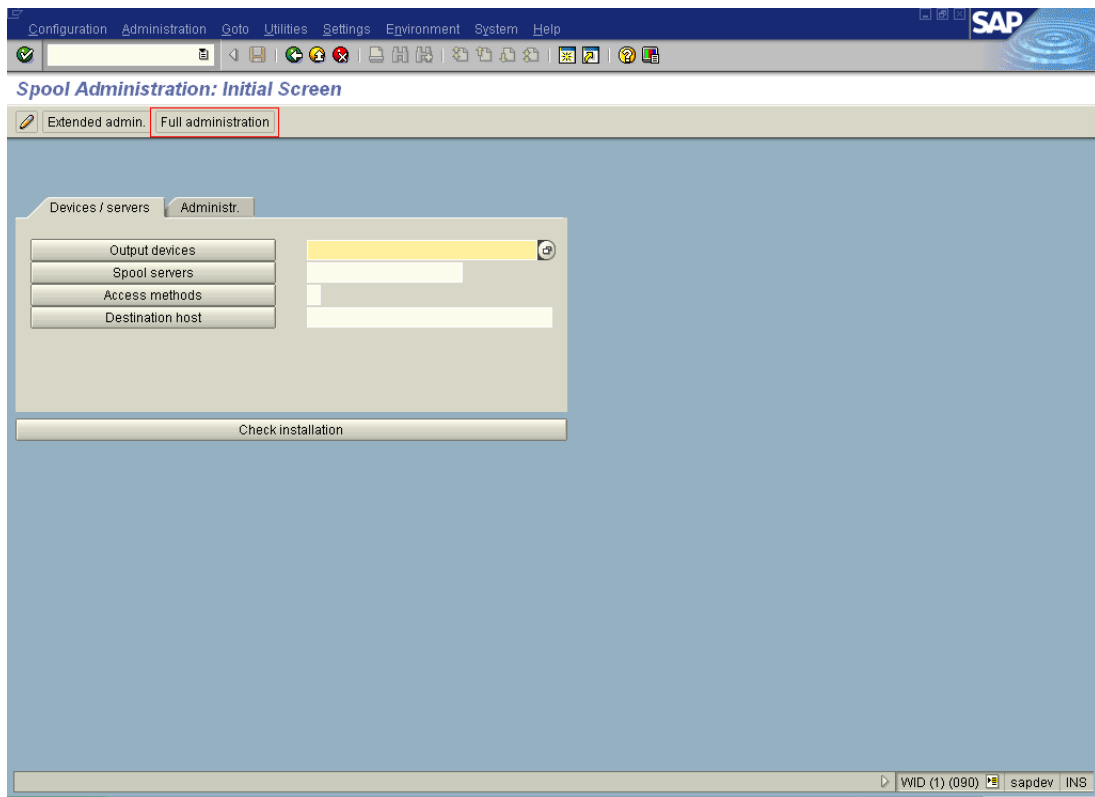
© Copyright 2006 SAP AG, All rights reserved.

Click on the “**Spool Administration**” tab.



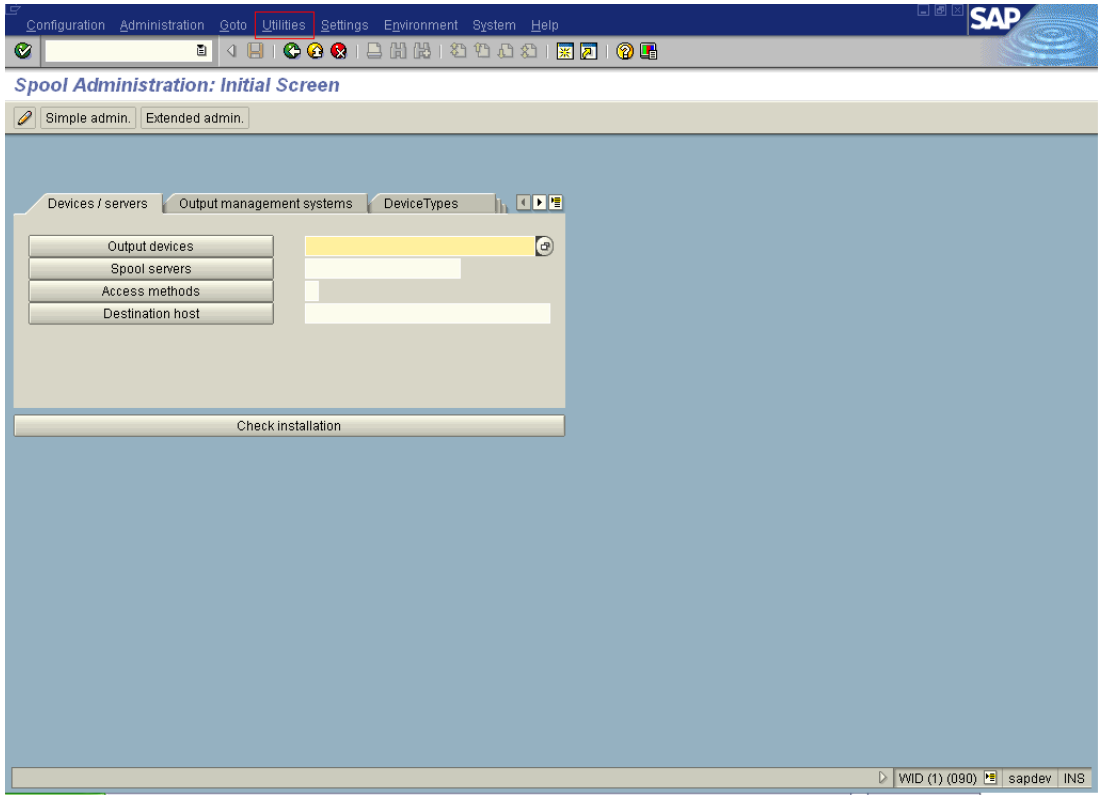
© Copyright 2006 SAP AG, All rights reserved.

Once you Press enter the following screen is displayed.



© Copyright 2006 SAP AG, All rights reserved.

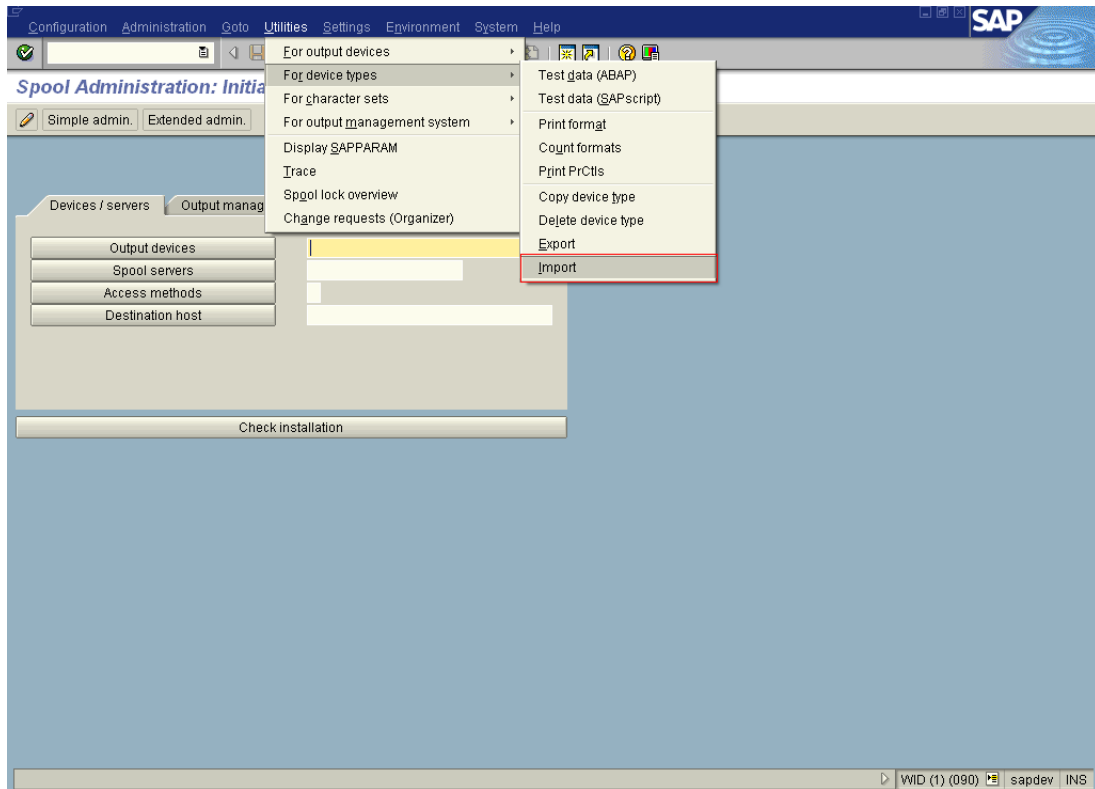
Press on the push-button **“Full administration”**. The following screen is displayed.



© 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 ZTSB205.pri only ZTSB205) as shown in the screen below. Make sure the entry in the field **Mode (EXPORT/IMPORT)** is written as “**IMPORT**”.

The screenshot shows the SAPscript Export to Dataset / SAPscript Import from Dataset dialog box. The dialog is divided into three main sections: Object selection and session ctrl, Ctrl parameters for file operation, and Control of language versions. In the Object selection and session ctrl section, the 'Device Type' radio button is selected, and the 'Object name' field contains 'ZTSB205'. The 'Mode (EXPORT/IMPORT)' field is set to 'IMPORT'. In the Ctrl parameters for file operation section, the 'From/on frontend' radio button is selected, and the 'Dataset name' field contains 'C:\temp*****&&&'. In the Control of language versions section, the 'Language vector' field is empty, and the 'Only export original language' checkbox is unchecked. The dialog box has a standard SAP menu bar (Program, Edit, Goto, System, Help) and a toolbar with various icons. The status bar at the bottom shows 'VWD (1) (090) sapdev INS'.

Program Edit Goto System Help

SAP

SAPscript Export to Dataset / SAPscript Import from Dataset

Object selection and session ctrl

☐ Form

☐ Style

☐ Standard text

Text ID ST

Language EN

☒ Device Type

Object name ZTSB205

Mode (EXPORT/IMPORT) IMPORT

Ctrl parameters for file operation

☒ From/on frontend

☐ From/on application server

Dataset name C:\temp*****&&&

☐ Binary file format

☐ Display dataset contents

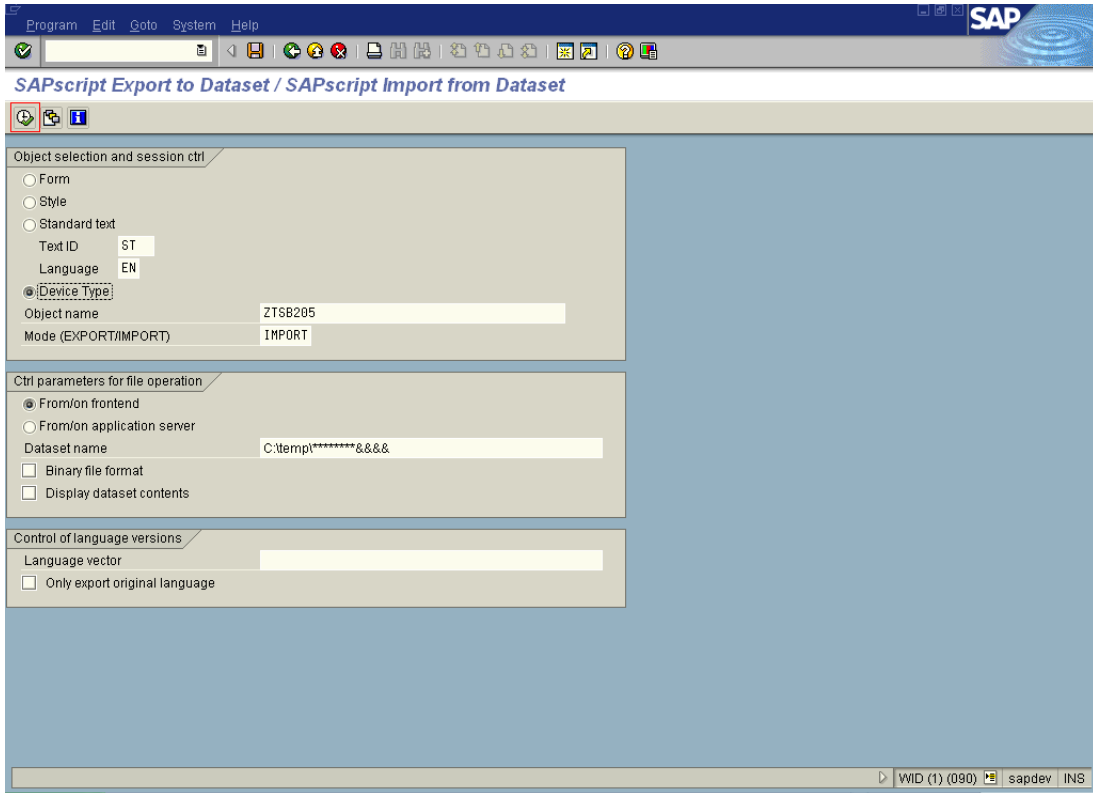
Control of language versions

Language vector

☐ Only export original language

VWD (1) (090) sapdev INS

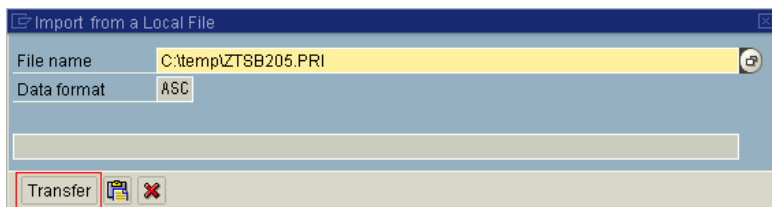
© Copyright 2006 SAP AG, All rights reserved.



© Copyright 2006 SAP AG, All rights reserved.

Press “F8” to proceed with import.

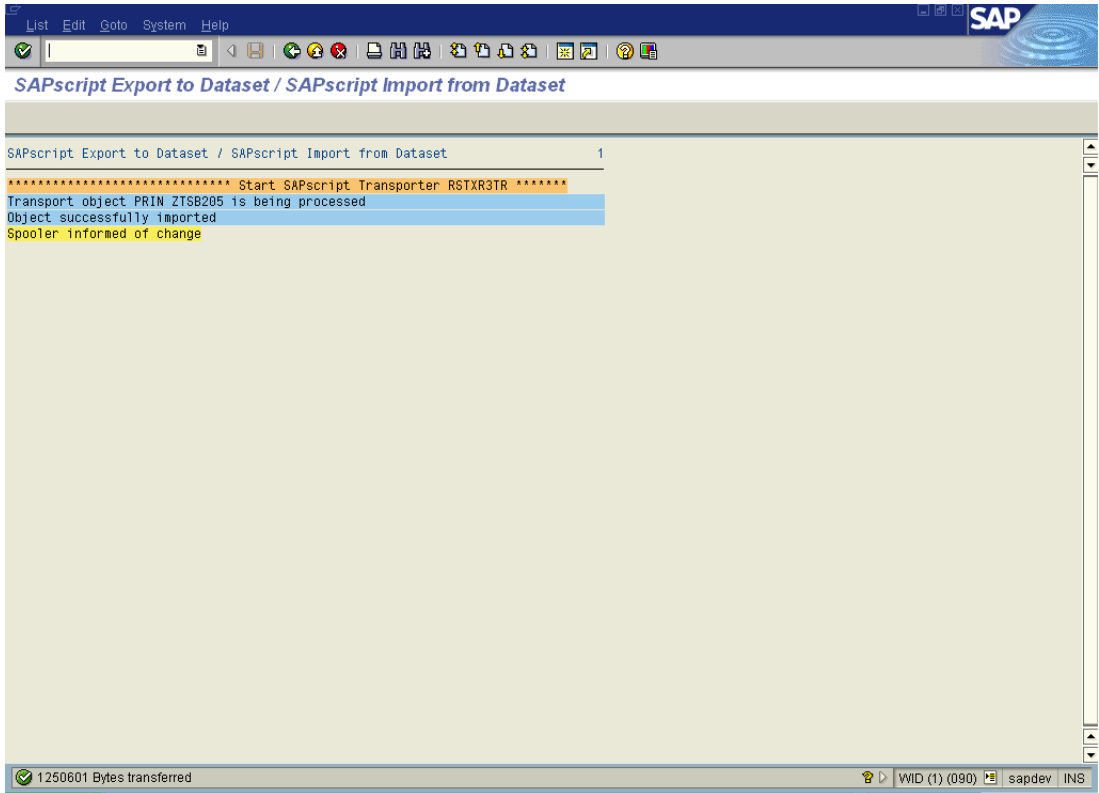
To locate the ZTSB205.pri on local system, **Press** this button.



© 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.

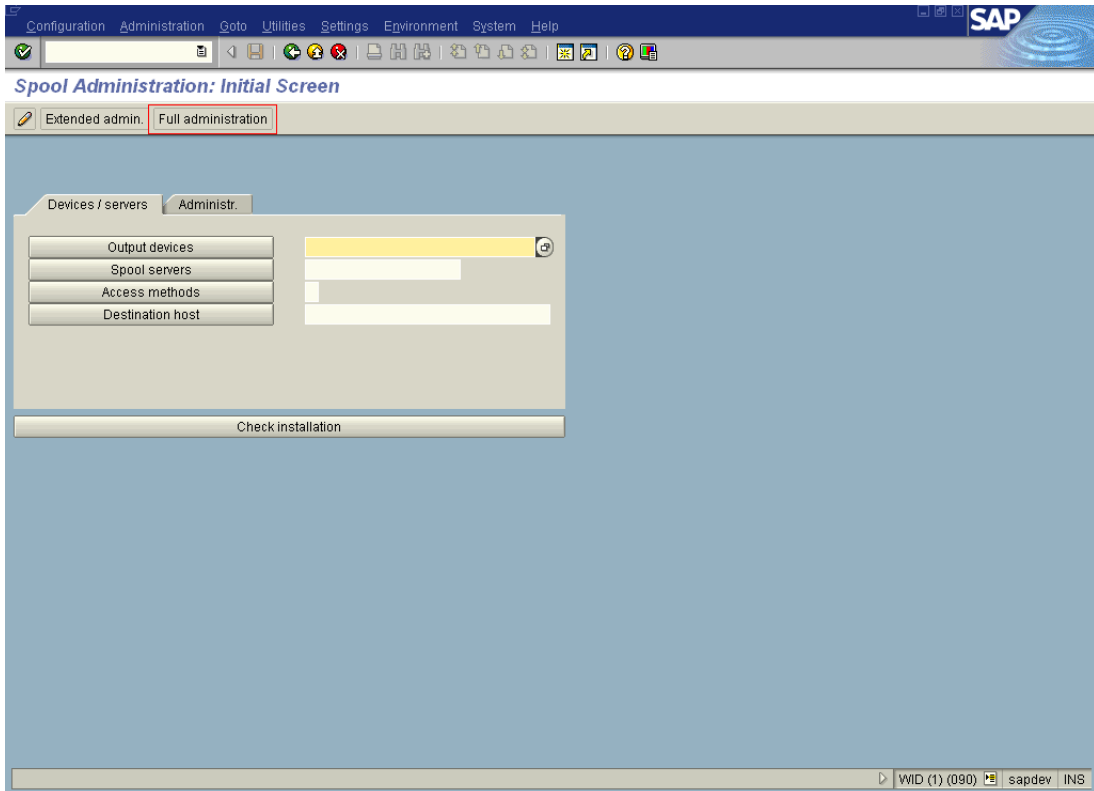


© Copyright 2006 SAP AG, All rights reserved.

3. Verification of Device Type File

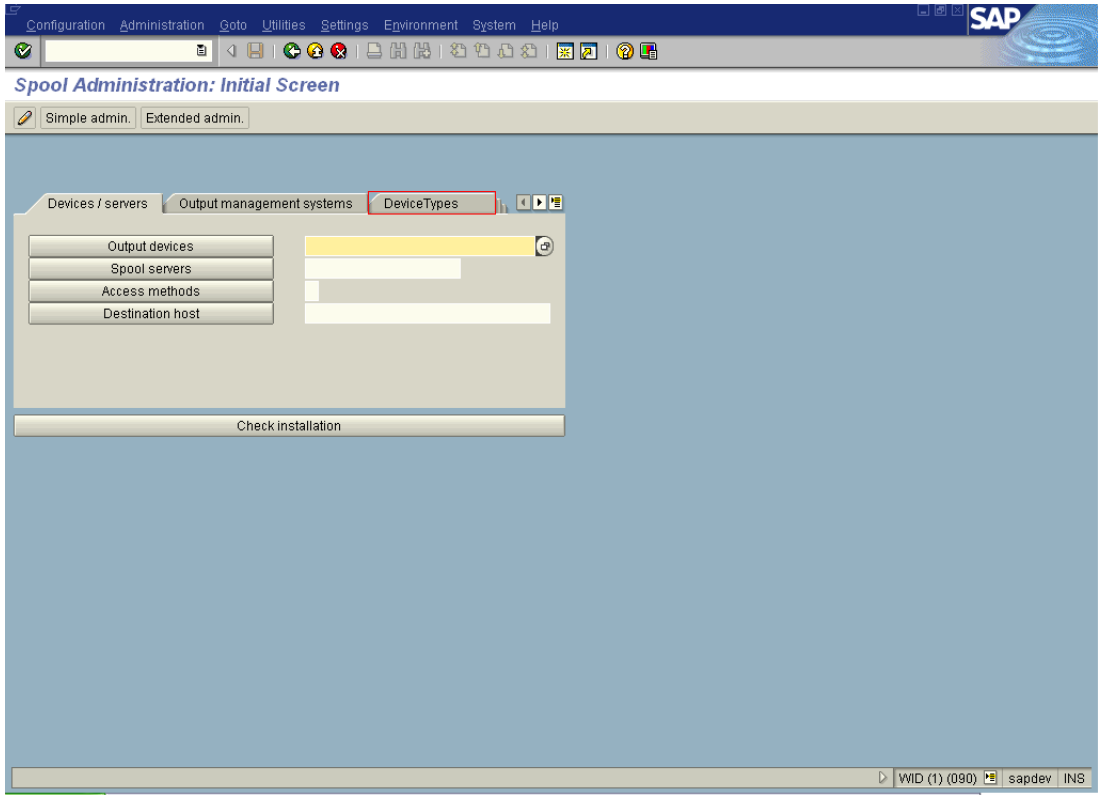
Once the device type is imported, it needs to be verified whether the newly imported device type appears in the standard list of all device types in SAP R/3 or not. To verify this same, follow the steps given below.

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.

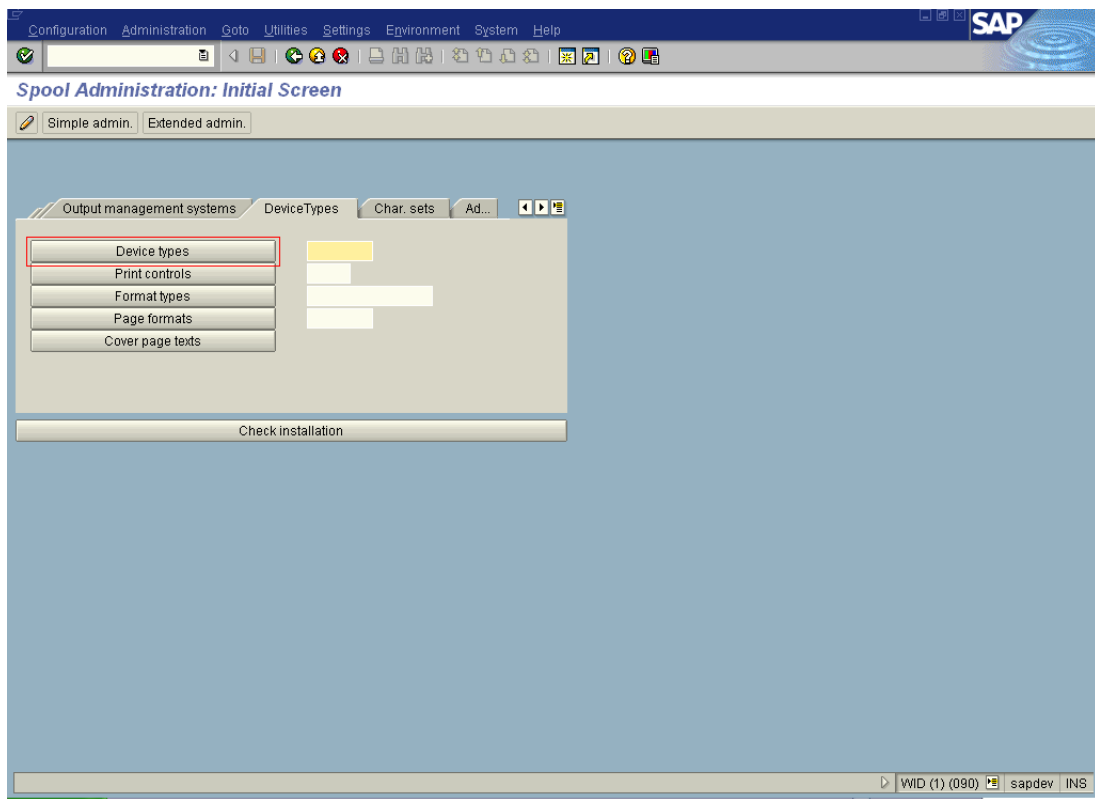
Click on **Full administration** and the following screen will be displayed.



© Copyright 2006 SAP AG, All rights reserved.

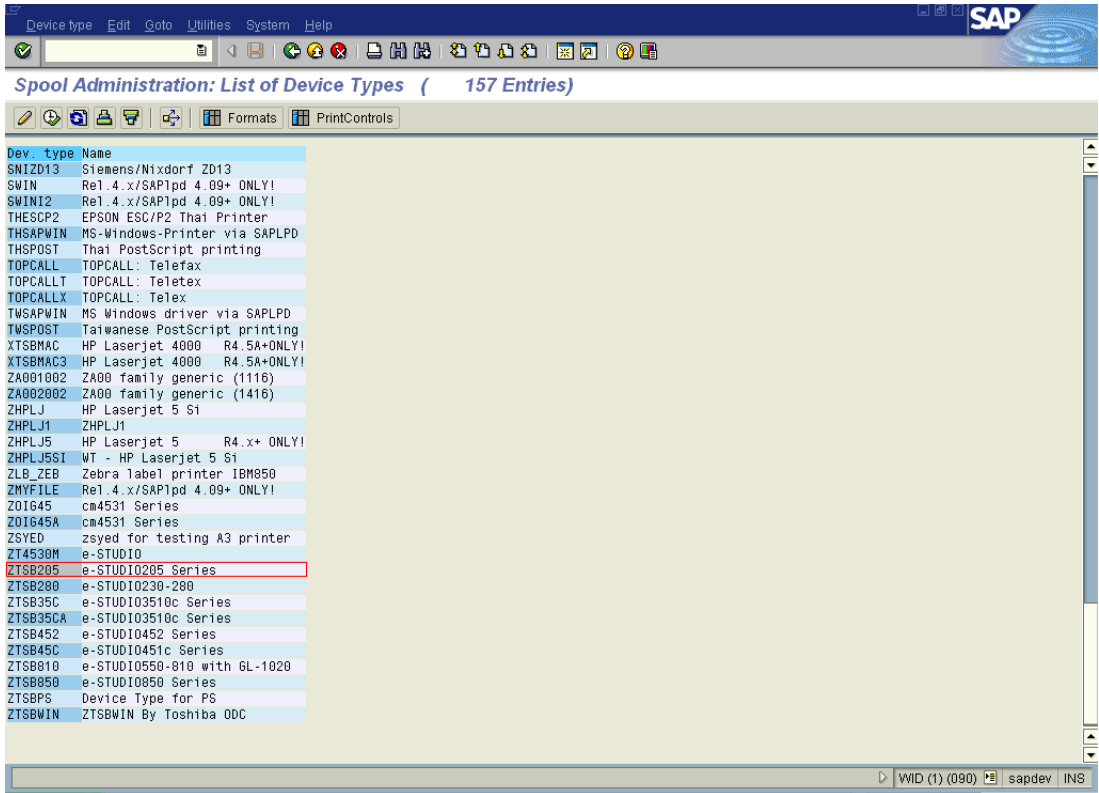
Click on the **Device Types**.

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.



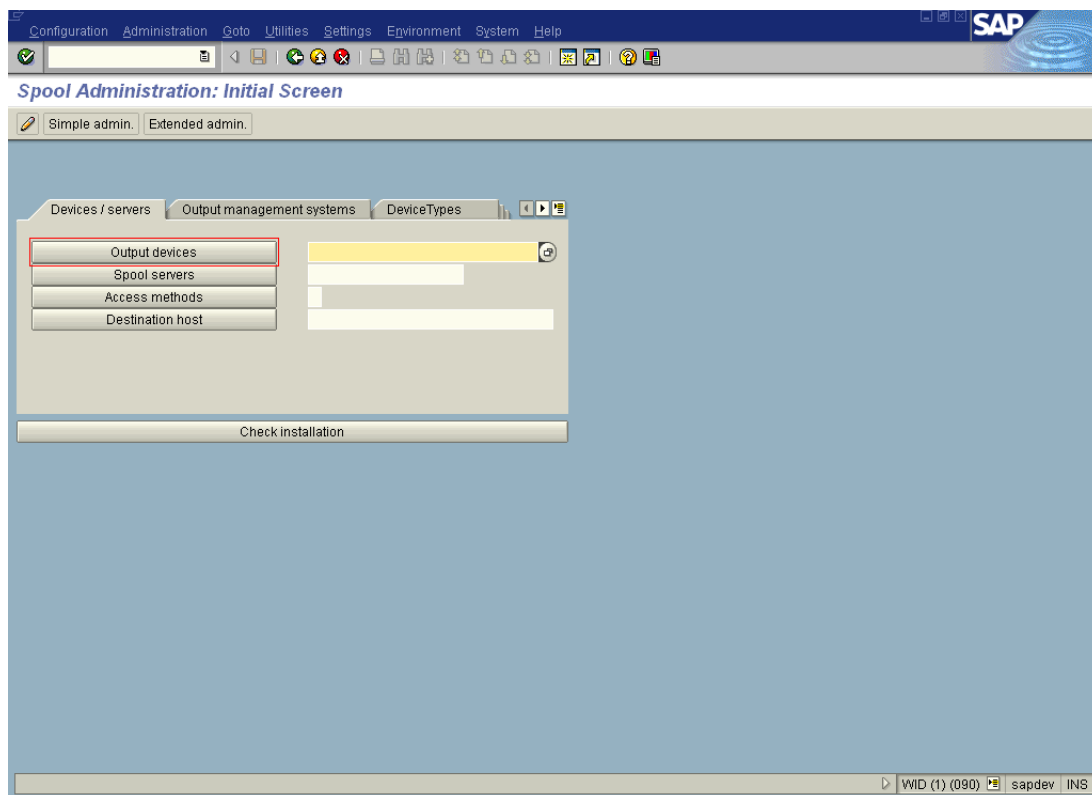
© Copyright 2006 SAP AG, All rights reserved.

The newly imported device type **ZTSB205** should appear in this list of device type. If the **ZTSB205** 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.

Output device Edit Goto Extras Utilities System Help

Spool Administration: List of Output Devices (Change) (43 ent

Dev.	Dev. type	Spool servers	Location or message
4530m	F ZT4530M		
BARCODE280	S ZTSB280	sapdev_WID_00	
CJ	F ZTSB205		
DENAL1	F Z01G45A		
GL1020	F ZTSB810		
HP LaserJet 8000 DN PCL 6	F ZHPLJ		
HP-Su11th	F HPLJ4000		
HPBARCODE	F ZHPLJ5		
HPL2	F HPLJ_I1		
HPLJ4000	F HPLJ4000		
HPLaserJet8000DNPCL	F HPLJ5S1		
HPLaserJet8000DNPCL6	F HPLJ5S1		
HPLaserJet8000DNPCL6[1]	F HPLJ5S1		
HPSARJAPUR1STFLDOR0CS	F HPLJ5S1		
HPSARJAPUR1STGROU	F HPLJ5S1		
HP_LJ4050_PCL	F HPLJ5		
LQ1050	F EPLQ550		
LQ10501	F EPLQ550		
MY SWIN	F SWIN		aaaa
MYBARCODE280	F ZTSB280		
MYTWSAPWIN	F TWSAPWIN		
PRINTER1	F ZTSB35C		
RIOBASE	F ZTSB850		
RISH1	F ZTSB280		
SAPDEMO	F Z01G45		
SAPWINBARCODE	F SAPWIN		
SJ050	F HPDJ050		
SJHP	F 12HP4		
TTECBARCODE	S ZMYFILE	sapdev_WID_00	
ZEBRA	F ZLB_ZEB		
ZHPCHECK	F ZHPLJ1		
ZTSB00	F HPLJ1110		
CJY2	F ZTSB280		
cont	F ZTSB205		
hpsarjapur1stocs2	F HPLJ5S1		

WID (1) (090) sapdev INS

© Copyright 2006 SAP AG, All rights reserved.

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

4. Creation of Output Device (Cont.)

The screenshot shows the 'Spool Administration: Create Output Device' dialog box in SAP. The 'Output device' field is set to 'e-STUDIO205 Series' and the 'Short name' field is set to '205'. The 'DeviceAttributes' tab is selected, showing a list of device types. The 'Device type' field is set to 'ZTSB205 : e-STUDIO205 Series'. The 'Device class' field is set to 'ZTSB205 : e-STUDIO205 Series'. The 'Authorization group' field is set to 'ZTSB205 : e-STUDIO205 Series'. The 'Model' field is empty. The 'Location' field is empty. The 'Message' field is empty. The 'Lock printer in SAP System' checkbox is unchecked. The status bar at the bottom shows 'VVID (1) (090) sapdev INS'.

Field	Value
Output device	e-STUDIO205 Series
Short name	205
Device type	ZTSB205 : e-STUDIO205 Series
Device class	ZTSB205 : e-STUDIO205 Series
Authorization group	ZTSB205 : e-STUDIO205 Series
Model	
Location	
Message	
Lock printer in SAP System	<input type="checkbox"/>

© Copyright 2006 SAP AG, All rights reserved.

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

Associate output device **ZTSB205: e-STUDIO205** device type.

Make sure Device class is "Standard printer".

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

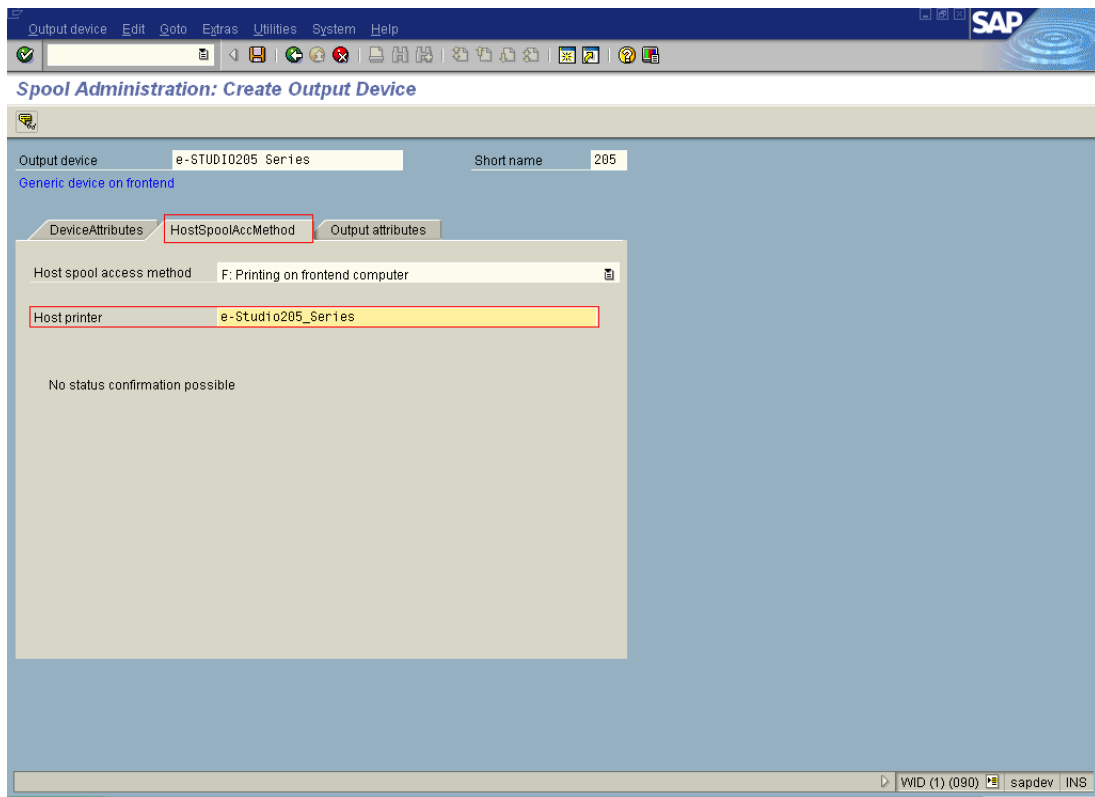
Subsequently choose the appropriate “**Host spool access method**” in the screen displayed below. Here it is selected as “**F**”.

The screenshot shows the SAP 'Spool Administration: Create Output Device' window. The 'Output device' field contains 'e-STUDIO205 Series' and the 'Short name' is '205'. The 'Generic device on frontend' link is visible. The 'HostSpoolAccMethod' tab is active, and the 'Host spool access method' dropdown is open, displaying a list of options: C: Direct operating system call, E: External output management system, F: Printing on frontend computer (highlighted), I: Archive service, L: Print locally using LP/LPR, and P: Device pool. The 'Host printer' field is empty, and the 'No status confirmation possible' checkbox is unchecked. The status bar at the bottom shows 'VWD (1) (090) sapdev INS'.

Field	Value
Output device	e-STUDIO205 Series
Short name	205
Generic device on frontend	Generic device on frontend
Host spool access method	F: Printing on frontend computer
Host printer	
No status confirmation possible	

© Copyright 2006 SAP AG, All rights reserved.

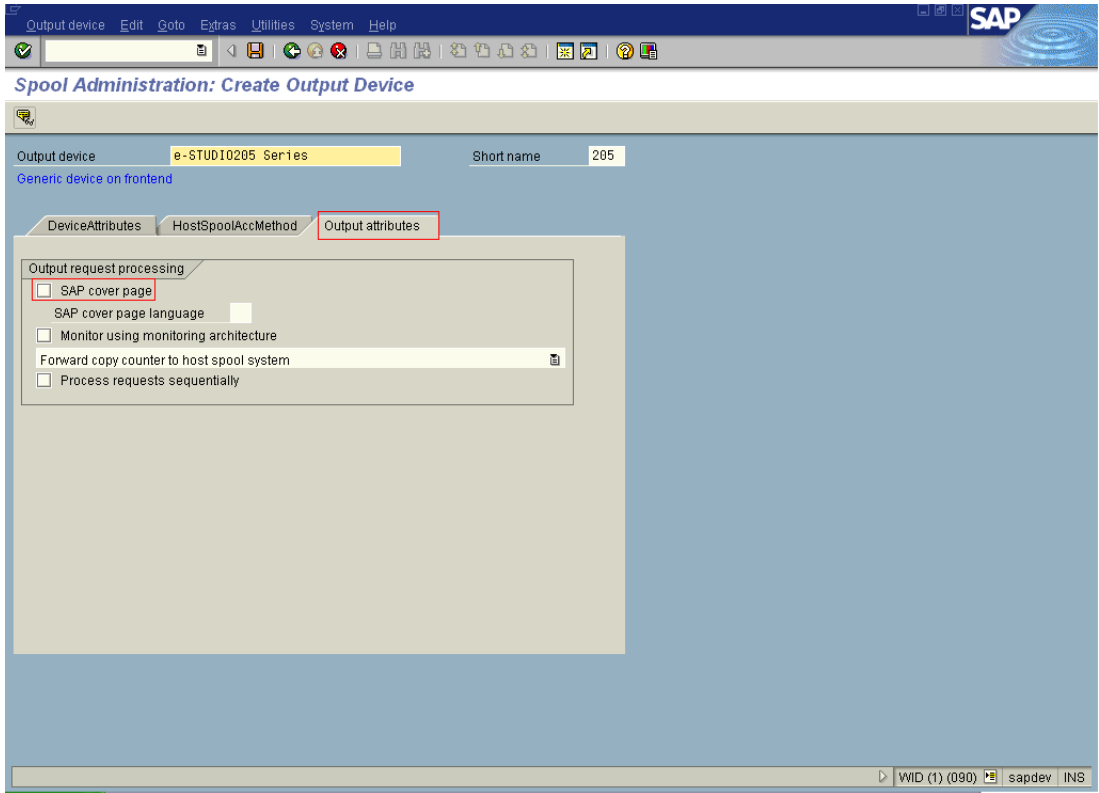
4. Creation of Output Device (Cont.)



© Copyright 2006 SAP AG, All rights reserved.

Enter the **Host printer** name **e-Studio205Series**.

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



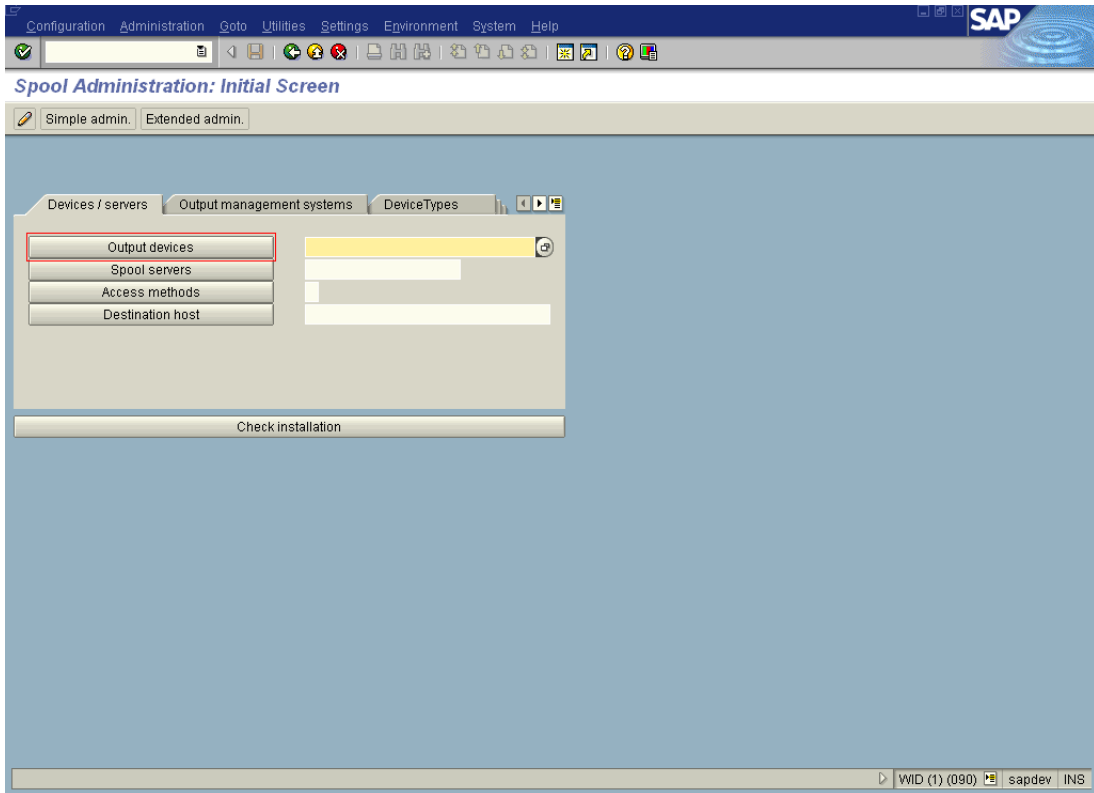
© Copyright 2006 SAP AG, All rights reserved.

(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 **HROD** should appear in this list.

Output device Edit Goto Extras Utilities System Help

Spool Administration: List of Output Devices (44 entries)

Dev.	Dev. type	Spool servers	Location or message
HP LaserJet 8000 DN PCL 6	F ZHPLJ		
HP-Suj1th	F HPLJ4000		
HPBARCODE	F ZHPLJ5		
HPL2	F HPLJ_I1		
HPLJ4000	F HPLJ4000		
HPLaserJet8000DNPCL	F HPLJ5S1		
HPLaserJet8000DNPCL6	F HPLJ5S1		
HPLaserJet8000DNPCL6[1]	F HPLJ5S1		
HPSARJAPUR1STFLOOR0CS	F HPLJ5S1		
HPSARJAPUR1STGROUP	F HPLJ5S1		
HP_LJ4050_PCL	F HPLJ5		
LQ1050	F EPLQ550		
LQ10501	F EPLQ550		
MY SWIN	F SWIN		aaaa
MYBARCODE200	F ZTSB200		
MYTWSAPWIN	F TWSAPWIN		
PRINTER1	F ZTSB35C		
R10BASE	F ZTSB850		
R1SH1	F ZTSB200		
SAPDEMO	F Z01645		
SAPWINBARCODE	F SAPWIN		
SJ050	F HPDJ050		
SJHP	F I2HP4		
TTECBARCODE	S ZMYFILE	sapdev_WID_00	
ZEBRA	F ZLB_ZEB		
ZHPCHECK	F ZHPLJ1		
ZTSB00	F HPLJ1110		
CJY2	F ZTSB200		
cont	F ZTSB205		
e-STUDIO205 Series	F ZTSB205		
hpsarjapur1stocs2	F HPLJ5S1		
lq10502	F EPLQ550		
opo	F ZT4530M		
printronix	F LB_PRI		
printronix2	F LB_PRI		

WID (1) (090) sapdev INS

© Copyright 2006 SAP AG, All rights reserved.

Newly created output device **HROD** 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 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
13 inch Legal	LEGAL13

6.3 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

6.4 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

6.5 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

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

e-STUDIO205 Series

TOSHIBA TEC CORPORATION

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