

Printer Landscape Made Easy!!



Applies to

SAP NetWeaver 2004s / SAP_BASIS 7.00.

For more information, visit the [Landscape Design and Architecture homepage](#).

Summary

This article deals with the step by step procedure to be carried out to setup Printing Assistant for Landscape (PAL) . All output devices in a system landscape are defined as printers and managed in one system ("Central System"), the printer definitions are distributed from this Central System to other systems.

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Introduction

The Printing Assistant for Landscape is an enhancement of the conventional SAP print capabilities which enables you to configure all printer definitions centrally and distribute them within your system landscape. Without PAL each physical printer must be defined and managed in each system separately, which is a time-consuming process and also prone to errors due to configuration inconsistencies. PAL makes the printer definition and administration easy and centrally managed.

Business Scenario

The scenario consists of several SAP systems which to which printers are connected. Using PAL we will centralize the printer administration. Identify one system as Central system in which Printing Assistant for Landscape (PAL) is configured. Other systems are added to PAL as target systems.

Pre requisite: Output device are created either in central or target systems as required using tx: SPAD.

Software Requirements

Transaction PAL is currently supported in release SAP_BASIS 7.00 and all higher releases.

Therefore the Central System must be at least on release SAP_BASIS 7.00. The Target Systems can be on release SAP_BASIS 6.20/6.40/7.00 and higher. This version of PAL is valid for the following Support Packages:

System Support Package

Central System

SAP_BASIS 7.10 SP05

SAP_BASIS 7.00 SP14

Target System(s)

SAP_BASIS 7.10 SP05

SAP_BASIS 7.00 SP14

SAP_BASIS 6.40 SP22

SAP_BASIS 6.20 SP64

All activities below are performed on the Central system following are objects created and managed in transaction PAL:

- Printers & Printer Groups
- Target Systems & Target System Groups

Then we map "Printer Group" to "System Target Group", enabling all target systems in that "Target System Groups" to use all printers in the "printer group".

Setting System Parameters for SSO2.

Use Tx: Rz11 (Central system) and set the values of following parameters as shown.

login/create_sso2_ticket = 2

login/accept_sso2_ticket = 1

Maintaining Services

Use Tx: SICF (Central system) and maintain following services according to [SAP Note 517484](#).

sap/public/myssocntl

/sap/public/bc/webicons /

/sap/public/bc/pictograms/

/sap/public/bc/webdynpro/

Now use Tx: PAL (Central System) for Setting up Printer Assistant Landscape.

1. PAL Target system Definition
2. PAL Printer definition.
3. Creating Printer Groups
4. Creating Target System Groups
5. Distributing Printer Group to Target System Group

PAL Target System Definition

All Target Systems must have a valid RFC destination in the Central System .

Tx: 5m59

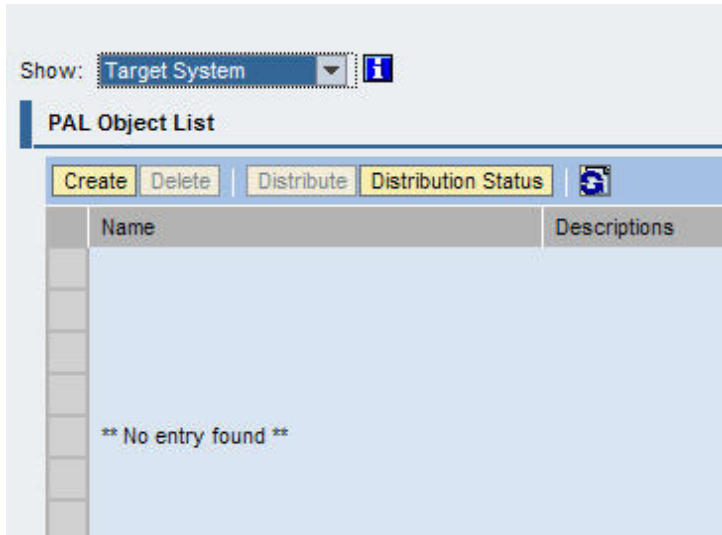
Consider the following points.

1. Do not specify a logon language in the RFC Destination setup.
2. It is not recommended checking the 'Current User' option.
3. Give user following Authorization.

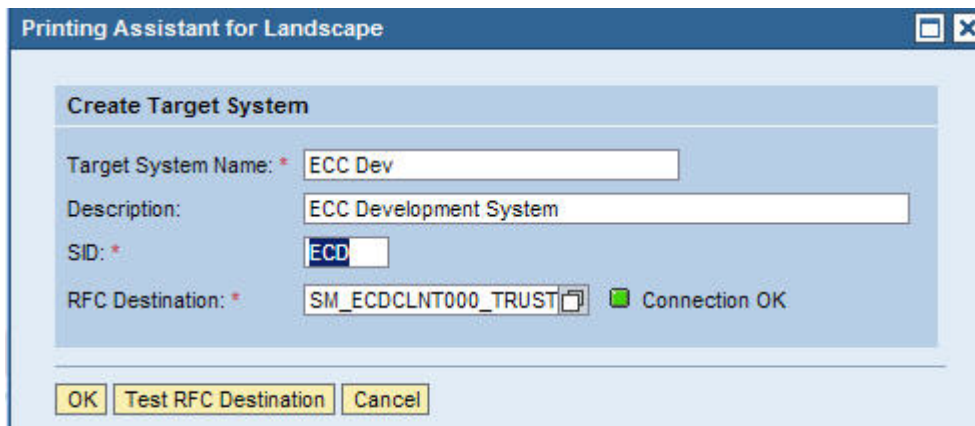
The required authorization objects are:

- S_TCODE (values: PAL, SPAA, SPAD)
- S_ADMI_FCD (values: SP01, SPOR, SPAA, SPAB, SPAC, SPAD)

- Specify a password and save it in the RFC Destination setup. Otherwise the RFC connection may not work since a password prompt is not always possible within PAL.



In section *Show* select 'Target Systems'. Define a new Target System, select the *Create* button.



In the following popup, enter Target System Name, Description, SID and the RFC destination created above. Select *Test RFC Destination* button. If you get message RFC Destination "SID" works, the target system is correctly defined.

The screenshot shows two SAP interface windows. The top window is titled "PAL Object List" and displays a table with the following data:

Name	Descriptions	PAL Object Type
ECC Dev	ECC Development System	Target System

The bottom window is titled "PAL Object Details" and shows the configuration for the "ECC Dev" target system:

PAL Target System

Name: ECC Dev
Description: ECC Development System
System ID: ECD
RFC Destination: SM_ECCLNT000_TRUST

Admin.

Created by: DDIC on: 18.11.2008 14:39:37
Last modified by: DDIC on: 18.11.2008 14:39:37

Target System is Added.

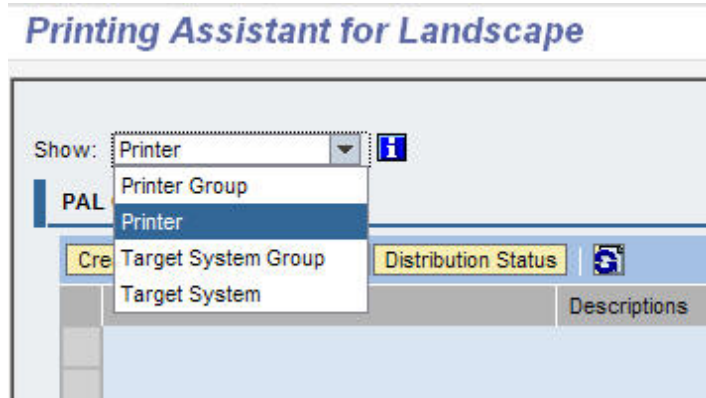
Done with Adding a target system in Central system.

PAL Printer Definition

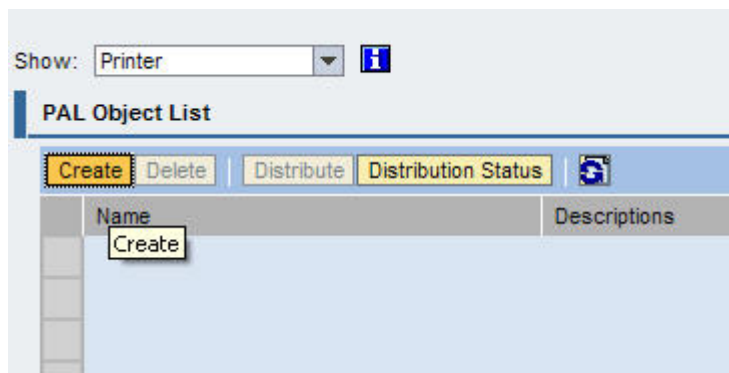
There are two options for PAL Printer definition: You can choose output devices from

- A. Central System
- B. Target System.

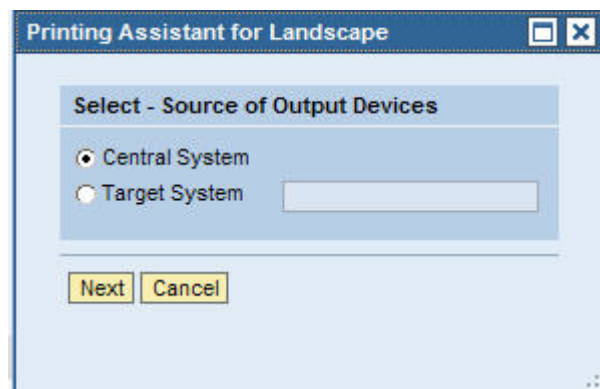
A. Source of Output Device – Central System



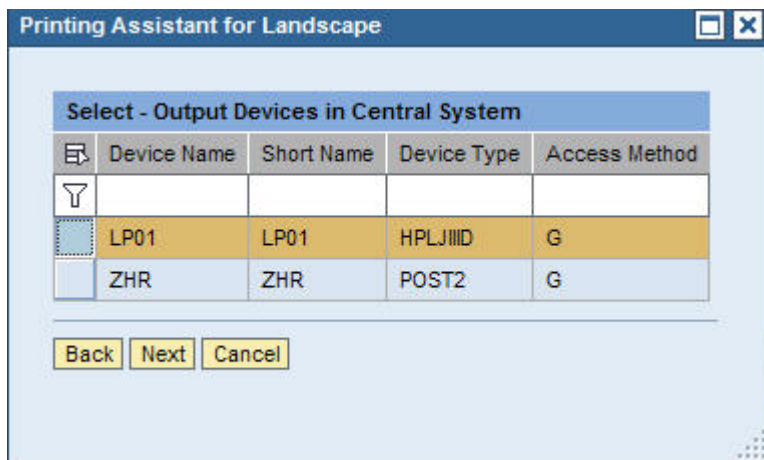
In section *Show* select 'Printer'.



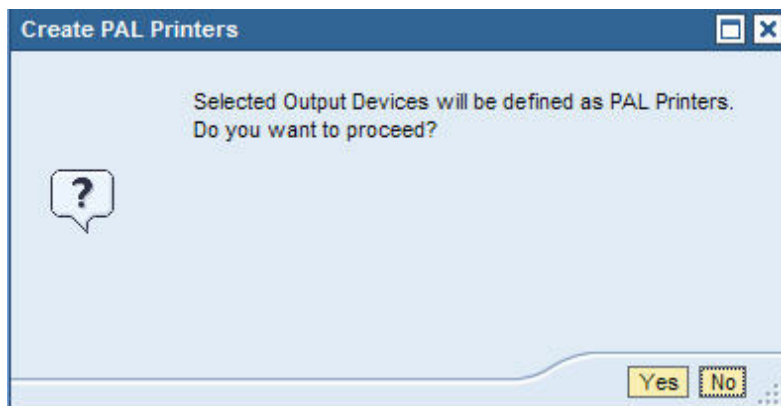
In the *PAL Object List* all existing PAL Printers are displayed. To define a new PAL Printer, choose the *Create* button.



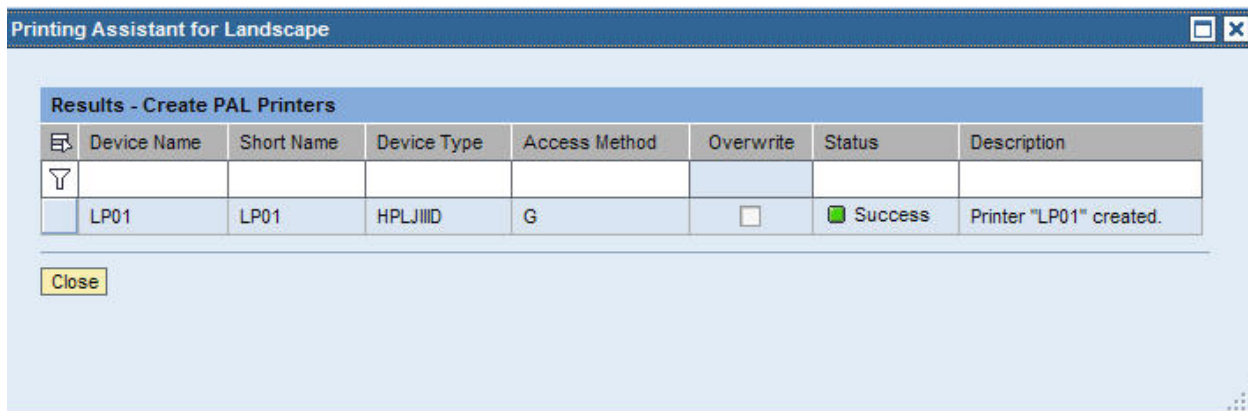
Select Central system (You must have defined the output device in the Central system itself)



A popup will be displayed in which all available output devices will be listed. Choose *Next*.



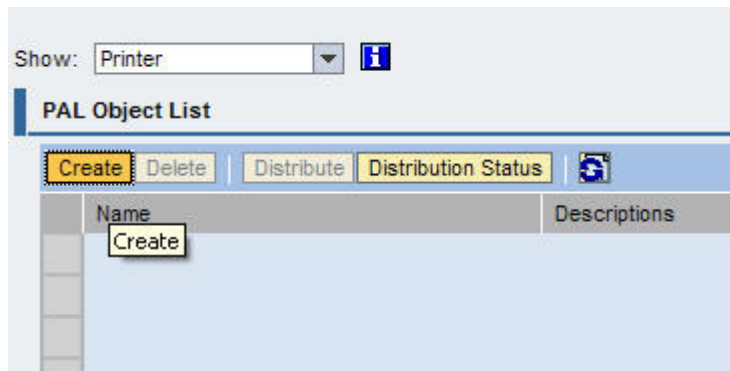
Confirm the following message with *Yes*.



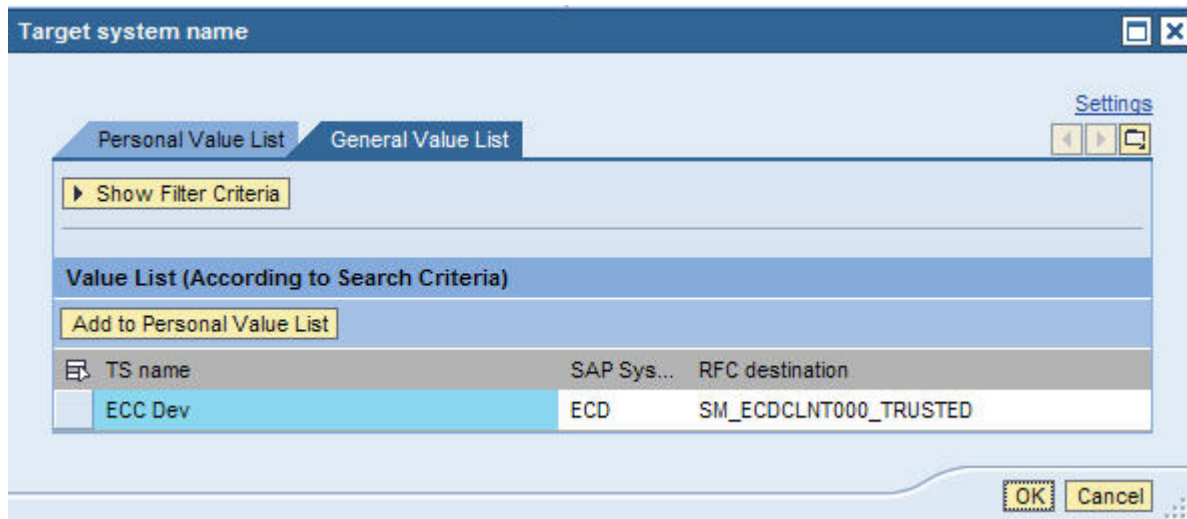
Selected output devices are displayed with status *Success* in a list.

B. Source of Output Device – Target System

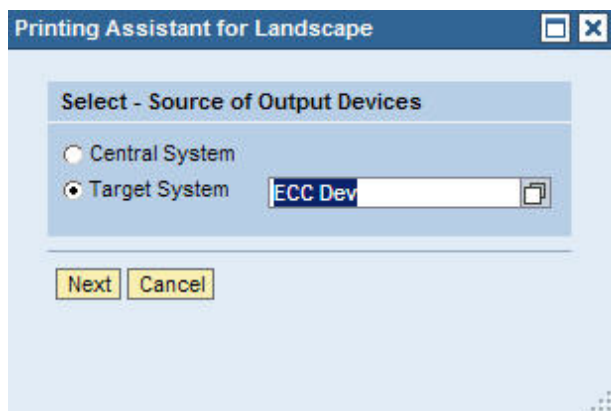
Note: The output device must be already configured in target system.



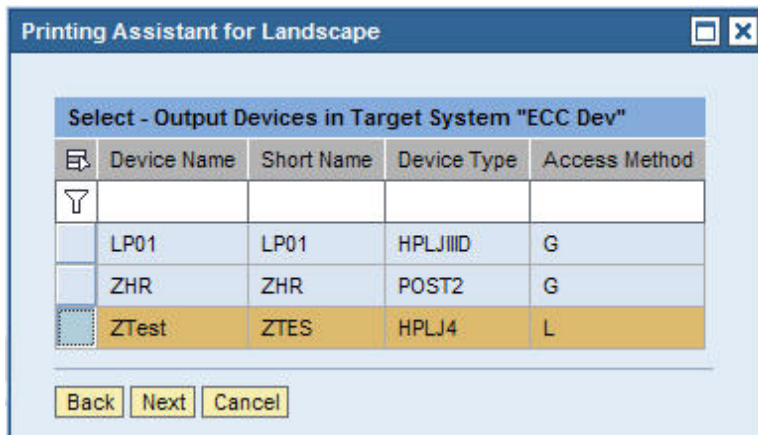
In the *PAL Object List* all existing PAL Printers are displayed. To define a new PAL Printer, select the *Create* button.



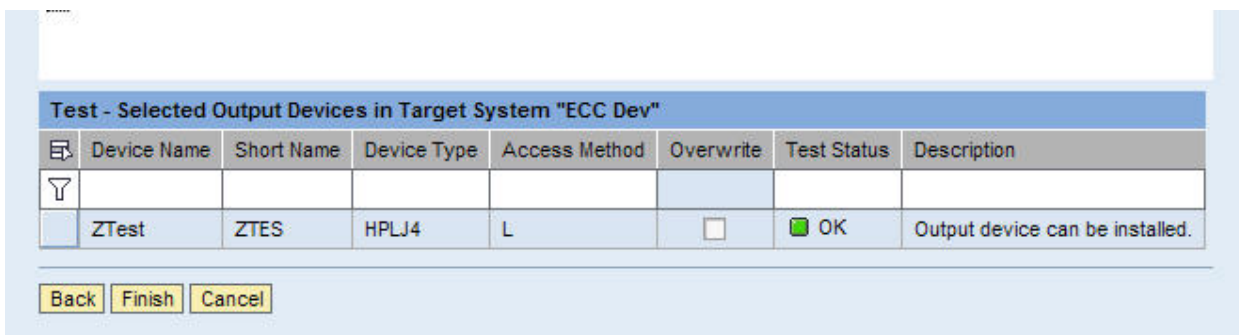
A popup will be displayed in which all output devices available in the Target System are listed.



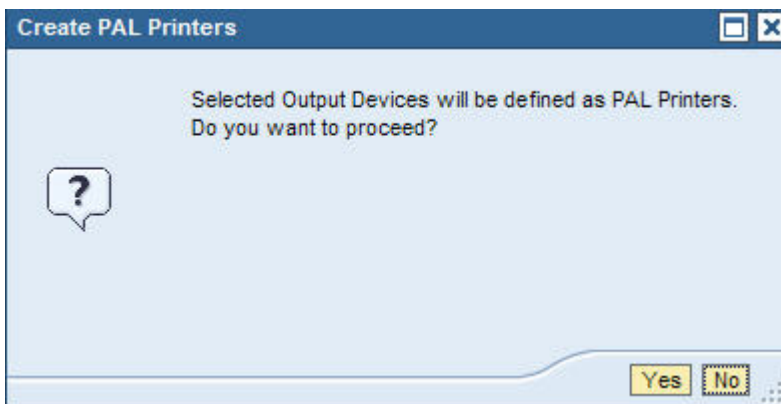
Select *Next*.



Select the output devices and then select *Next*. The selected output devices are displayed in a new list.

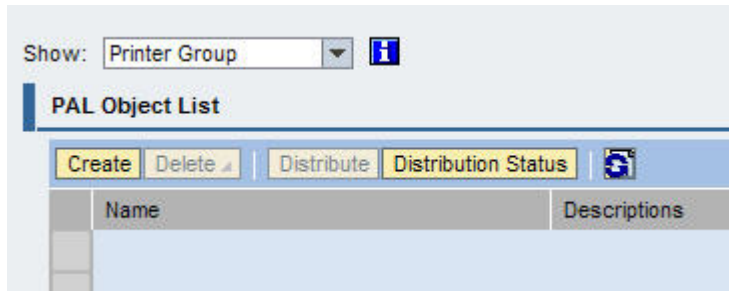


Select printers that are displayed with Test Status OK, and click on *Finish*.

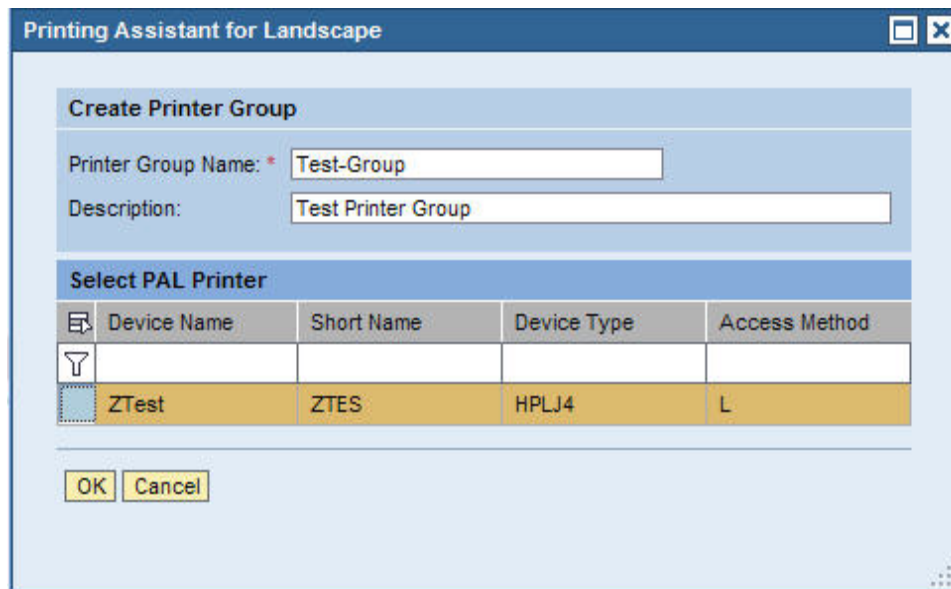


Creating Printer Groups

PAL Printers can not be distributed to Target Systems directly. They must be a member of a Printer Group.




In the *PAL Object List*, select 'Printer Group' from the dropdown menu.




Select *Create*. A popup appears. Enter the name and description for the Printer Group.

Add PAL Printers immediately, choose from the list in the popup which contains all PAL printers defined in the system. You can select multi printers.

Select *OK* and *Save*.

Show: Printer Group 

PAL Object List

Create Delete Distribute Distribution Status 

Name	Descriptions
▼ Test-Group	Test Printer Group
▪ ZTest	Imported from Target System "ECC Dev".

Row 1 of 2

PAL Object Details

Add/ Remove Printers from Printer Group.

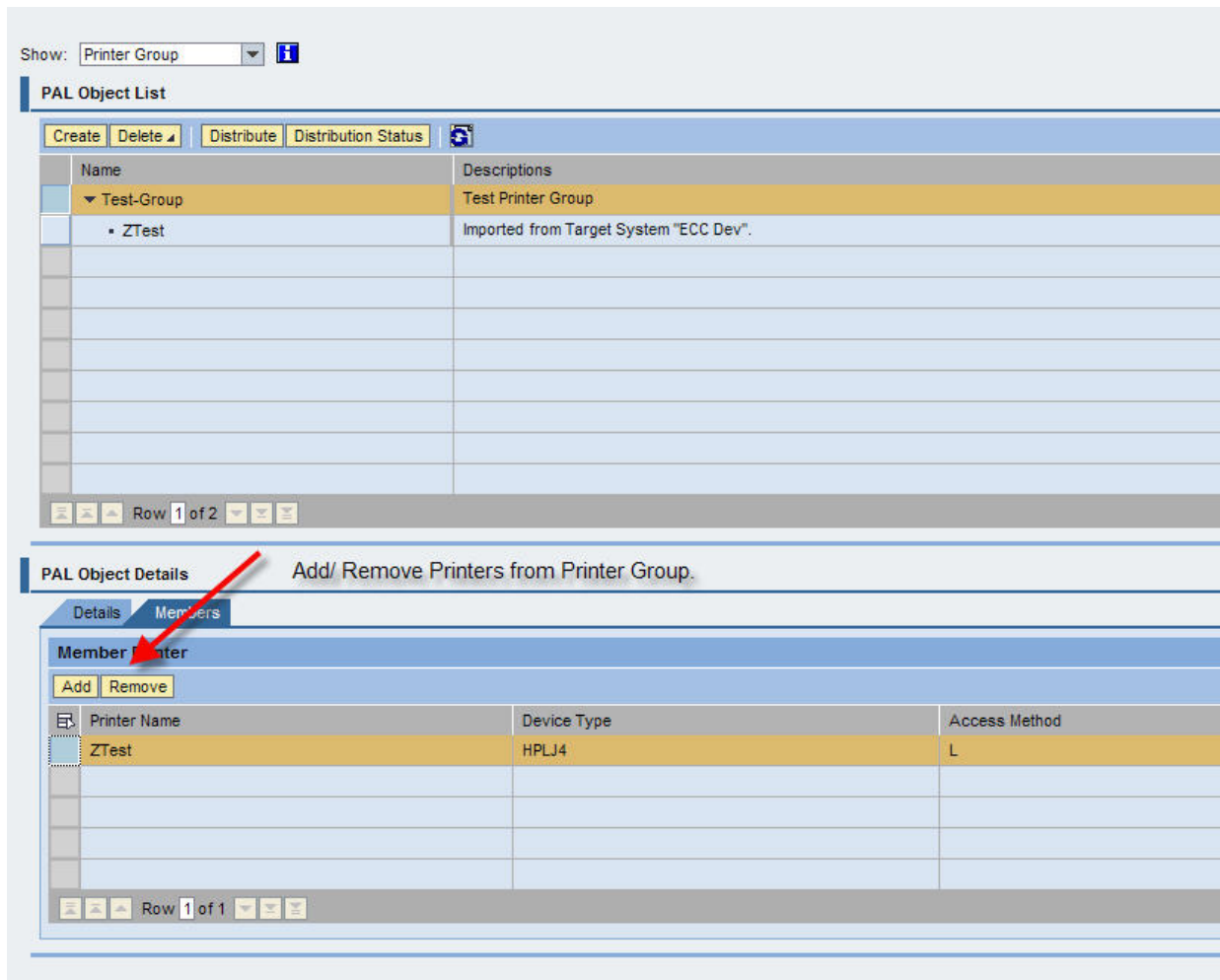
Details **Members**

Member Printer

Add Remove

Printer Name	Device Type	Access Method
ZTest	HPLJ4	L

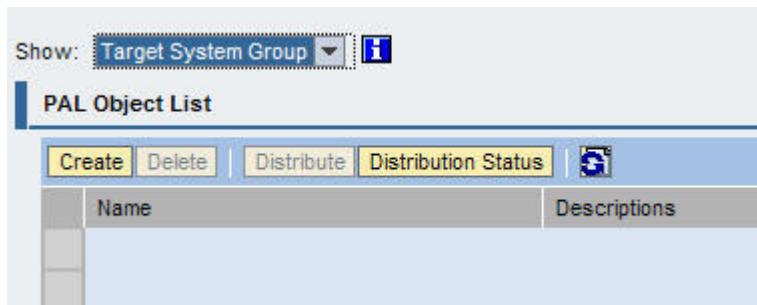
Row 1 of 1



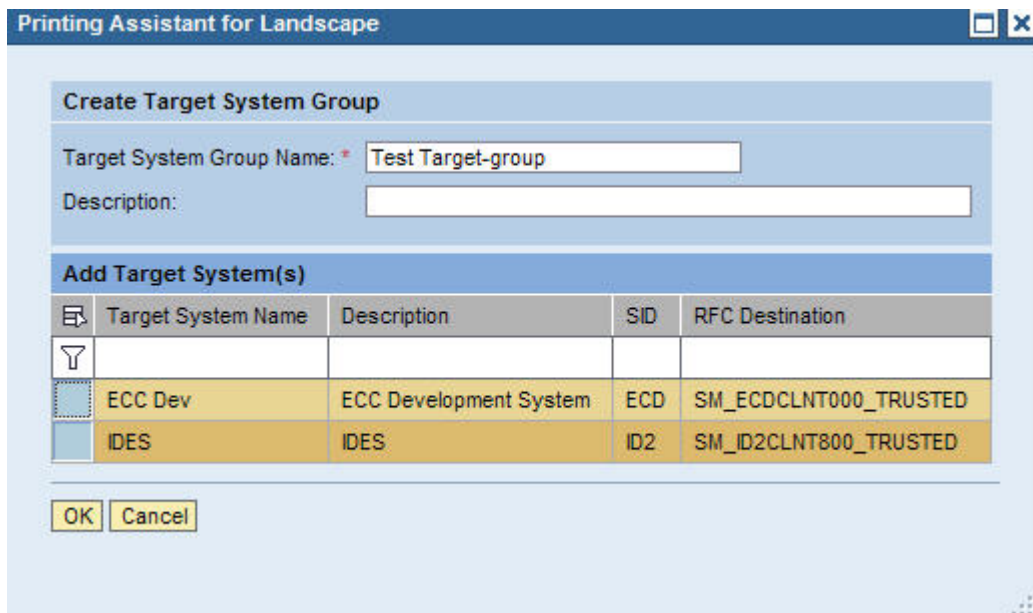
PAL printers are shown below the new defined printer Group.

Printers can be added / removed from the Printer group using *Members* tab.

Creating Target System Groups




In the *PAL Object List*, select 'Target System Group' from the dropdown menu. Choose *Create*.




A popup appears. Enter name and description for the Target System Group. If you want to create an empty Target System Group, select *OK*.

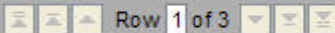
If you want to add Target Systems immediately, choose from the list in the popup which contains all Target Systems which were defined in the Central System before.
Select **OK** and **Save**.

Show: Target System Group 

PAL Object List

Create Delete Distribute Distribution Status 

Name
▼ Test Target-group
▪ ECC Dev
▪ IDES

Row 1 of 3 

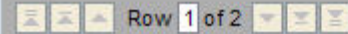
PAL Object Details

Details **Members**

Member Target System

Add Remove

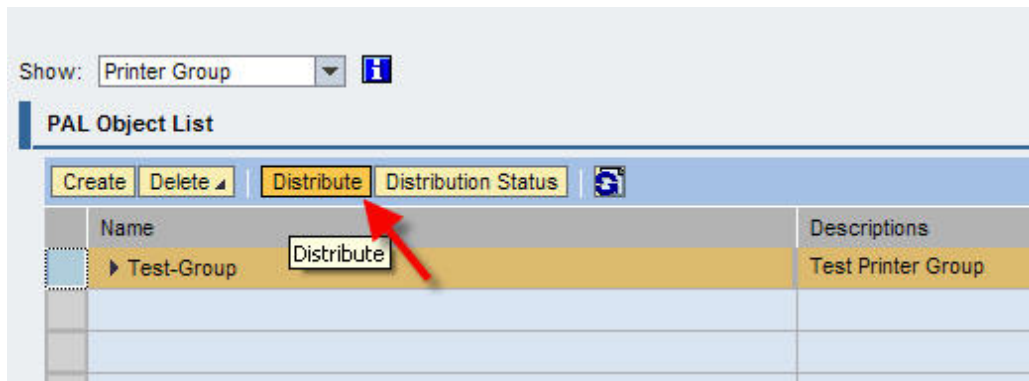
Name	Description
ECC Dev	ECC Development System
IDES	IDES

Row 1 of 2 

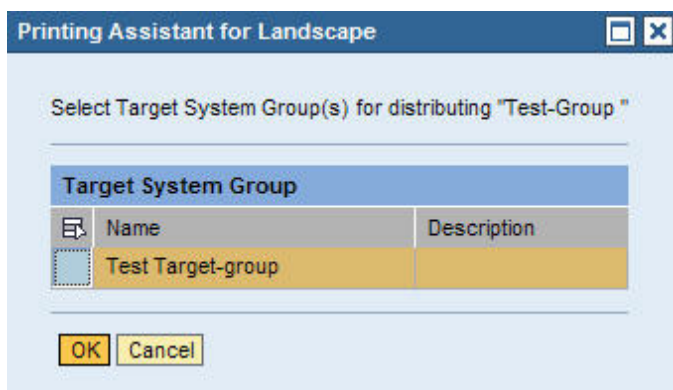
Add / Remove System from Target System Group.

Target systems are shown below the new defined System Target Group.
System can be added / removed from the Target system group using members tab.

Distributing Printer Group to Target System Group



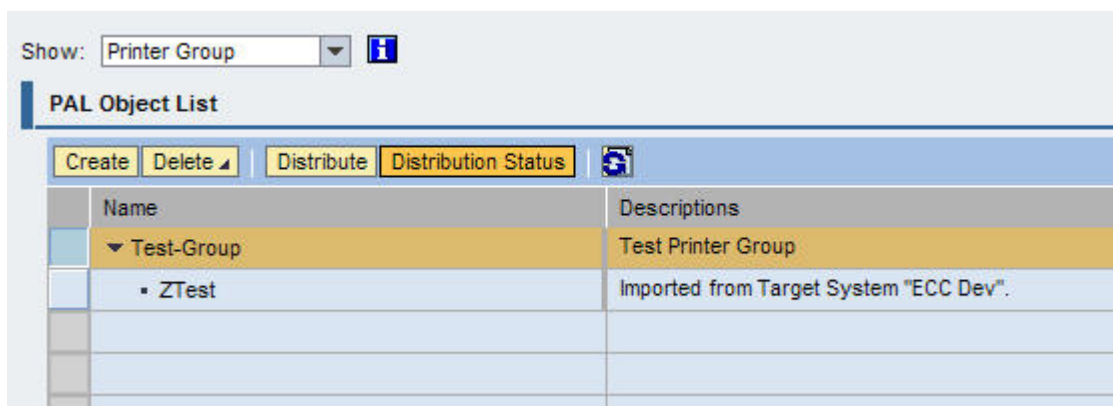
In the PAL Object List, select 'Printer Group' from the dropdown menu. Select a Printer Group from the list and *Distribute*.



A popup with all defined Target System Groups appears.

Select the Target System Group(s) you want distribute the Printer Group to.

Make sure that the distribution combinations are correctly set before you select *OK*.



Relation between Printer Group to Target System Group is established. It can be checked using "Distribution Status".

Printing Assistant for Landscape

Distribution Status						
	Printer Group	Printer	Target System Group	Target System	Dist. Status	Remarks
	Test-Group	ZTest	Test Target-group	ECC Dev (ECD)	◇	✖ Distribution failed. Printer "ZTest" already exists as non-PAL Printer.
				IDES (ID2)	◇	✖ Distribution failed. Higher Support Package level required in Target System IDES for distribution of Printers with Access Method 'L'.

Re-distribute Close

If you find errors in the status you can re-distribute after fixing the error.

Important SAP Notes:

[Note 964501](#) - Printing Assistant for Landscape (PAL)

[Note 894444](#) - Tool for server-based printing on Windows (SAPSPrint)

[Note 821519](#) - Front-end printing with control technology

Summary

Through this article we have seen the various steps that needed to setup Printing Assistant for Landscape (PAL) .

Related Contents

Output Managent : <http://service.sap.com/output>

PAL Presentation: <http://service.sap.com/~sapidb/011000358700000600472007E>

PAL User Guide: <http://service.sap.com/~sapidb/011000358700000128122007E>

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