

# **SAPConnect Configuration in SAP R/3 4.6**



# Copyright

Copyright 1999 SAP AG. All rights reserved.

Neither this training manual nor any part thereof may be passed on to others, copied or reproduced in any form or by any means, or translated into another language, for any purpose without the express prior consent in writing of SAP AG. The information contained in this document is subject to change and supplementation without prior notice.

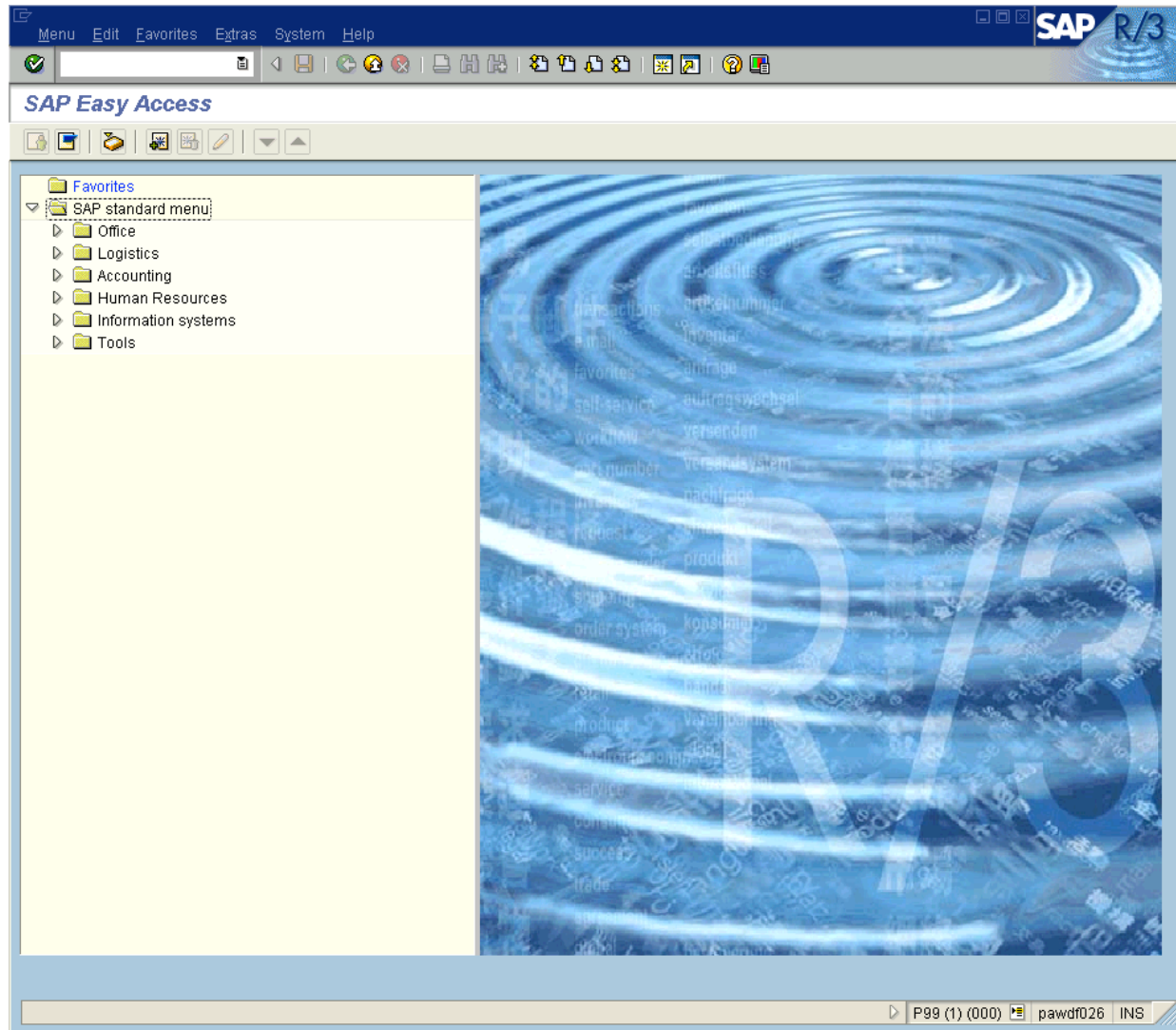
All rights reserved.



## Trademarks

- SAP and the SAP logo are registered trademarks of SAP AG.
- MS-DOS and EXCEL are registered trademarks of Microsoft.
- OS/2, CICS, MVS, ACF/VTAM, VSE, AIX, OS/400 and AS/400 are registered trademarks of IBM.
- X Window System is a registered trademark of MIT University.
- SINIX, UTM and BS2000 are registered trademarks of Siemens.
- UNIX is a registered trademark of AT&T.
- HP-UX is a registered trademark of Hewlett Packard.
- DECnet, DECstation, DECsystem, VAXstation and VMS are registered trademarks of DEC.
- Ethernet is a registered trademark of the Xerox Corporation.
- ORACLE SQL\*net, SQL\*+ PRO\*C are registered trademarks of the ORACLE Corporation.
- INFORMIX-OnLine and INFORMIX-ESQL/C are registered trademarks of the INFORMIX Corporation.

# Configurations for SAPconnect in the SAP System R/3 4.6



®

## Required configurations for SAPconnect in R/3:

- Create an RFC user
- Create an RFC destination
- SAPconnect Configuration:
  - set communication method ‚SAPCONNECT‘
  - if necessary: add a conversion rule
  - define a node and his attributes (supported formats, location, device type, e.g.)
  - if necessary: define exception rules for fax numbers
  - define the routing
- Schedule a SAPconnect background send process
- Assign a fax number to each R/3 user

# Create RFC User -1-

The screenshot shows the SAP R/3 'Maintain User' transaction. The user 'SAPCONNECT' is selected. The 'Person' tab is active, and the 'Last name' field is circled in red. The 'Communication' tab shows the language set to German. The 'Company' tab shows the address 'SAP AG / Neurtstr. 16 / D-69190 Walldorf'.

Field	Value
User	SAPCONNECT
Last changed by	METZGERD
06.06.1997	14:53:35
Status	Saved
Title	
Last name	SAPCONNECT
First name	RFC
Acad. title	
Format	RFC SAPCONNECT
Function	
Department	
Room no.	
Floor	
Building	
Language	German
Telephone no.	
Fax	
Internet mail	
Company	SAP AG / Neurtstr. 16 / D-69190 Walldorf

®

Create a user for the fax server to login to the R/3 system:

- Call: Tools => Administration, User maintenance => Users (transaction SU01)
- Insert the user name and press the 'Create' (F8) push button.  
The above screen will appear.
- Insert dummy address data of user into the first screen.
- Go to next input screen : Login data

# Create RFC User -2-

The screenshot shows the SAP R/3 'Maintain User' interface. The user name is 'SAPCONNECT'. The 'User type' section has 'CPIC' selected. The password fields are masked with asterisks. Red circles highlight the password fields and the 'CPIC' radio button.

User	
User	SAPCONNECT
Last changed by	METZGERD 06.06.1997 14:53:35
Status	Saved

Address Logon data SNC Defaults Parameters Activity groups Pr...

Measurement data

Initial password: \*\*\*\*\*

Repeat password: \*\*\*\*\*

User group for authorization check: [ ]

Validity period: Valid from 01.01.1998, Valid to 01.01.1999

User type:  Dialog,  BDC,  Background,  CPIC

Other data: Accounting number [ ], Cost center [ ]

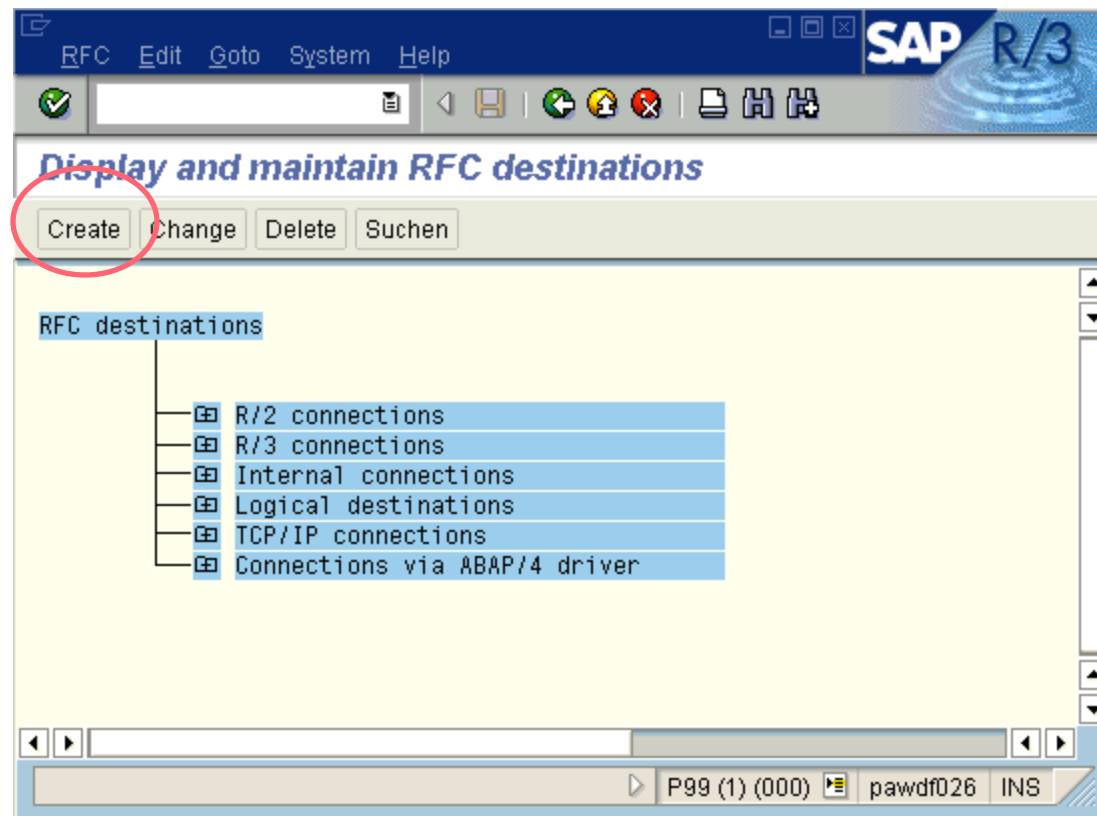
P99 (1) (000) pawdf026 INS

®

- Name and password must match with the values set in the configuration of the fax server.
- The type of user must be "CPIC".
- Go to next input screen : Profiles



# Create RFC Destination -1-



®

Create an RFC destination for outbound calls:

- Call: Tools=>Administration, Administration => Network => RFC destinations (transaction SM59)
- Choose: Create

# Create RFC Destination -2-

Destination System information Test System Help

SAP R/3

### RFC Destination

Test connection

RFC destination: SAPCONNECT\_FAXSERVER

Technical settings

Connection type: T New entry  Trace

Description

Just a SAPConnect Test Destination

Logon

Language:

Client:

User:   Current user

Password: \*\*\*\*\* is still blank  Unencrypted password (2.0)

Attributes

Created by:

Last changed by:

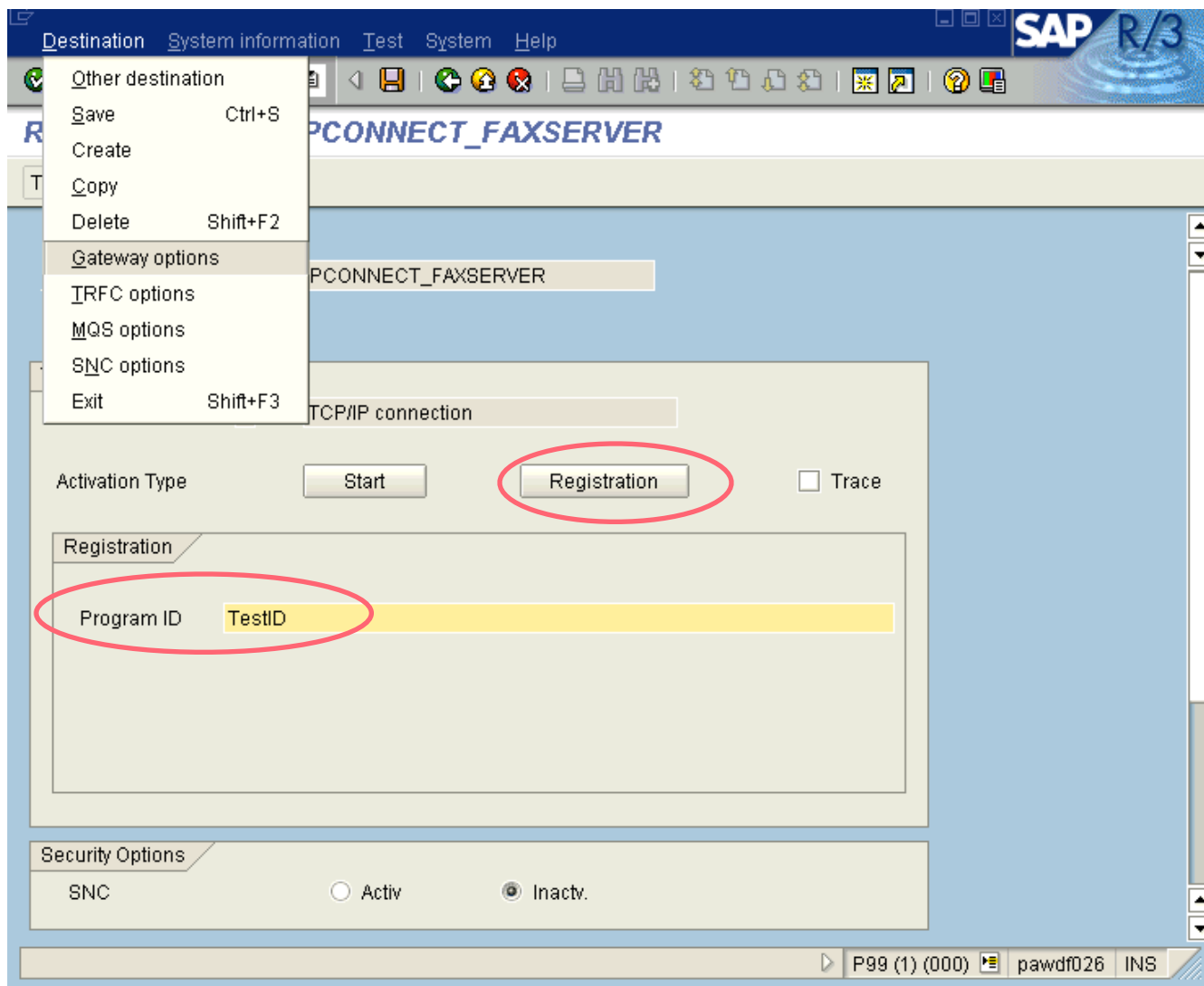
P99 (1) (000) pawdf026 INS

®

- Enter a name of the RFC destination
- Set connection type ,T' (=TCP/IP)
- Enter a description
- Press Enter !
- The next screen will appear.

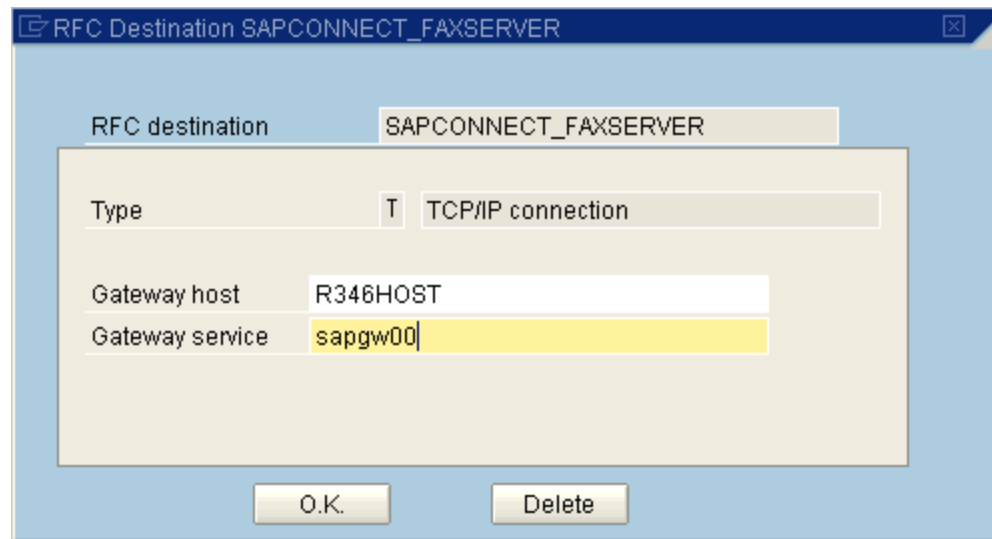


# Create RFC Destination -3-



- Select activation type ‚Registration‘.
- Enter a program ID.  
This program ID must match with the value defined with parameter PROGID in the saprfc.ini file on the fax server.
- Choose the menu point ‚Destination -> Gateway options‘

# Create RFC Destination: Set Gateway Options



The screenshot shows a dialog box titled "RFC Destination SAPCONNECT\_FAXSERVER". The "RFC destination" field contains "SAPCONNECT\_FAXSERVER". The "Type" is set to "TCP/IP connection". The "Gateway host" is "R346HOST" and the "Gateway service" is "sapgw00". The "O.K." and "Delete" buttons are visible at the bottom.

RFC destination	SAPCONNECT_FAXSERVER
Type	T TCP/IP connection
Gateway host	R346HOST
Gateway service	sapgw00

®

- Set the gateway options of the RFC destination.
- Enter the host name and the service of the SAP gateway.  
It must be the same gateway where the fax server has registered itself.
- Hit the ,OK‘ button and save the RFC Destination.

# Sample saprfc.ini File

```
DEST=MATS  
TYPE=R  
PROGID=faxhost.faxprog  
GWHOST=r3host1  
GWSERV=sapgw05
```

```
DEST=MAT  
TYPE=A  
ASHOST=r3host1  
SYSNR=05
```

or

```
DEST=MAT  
TYPE=B  
R3NAME=MAT  
MSHOST=r3hostm  
GROUP=PUBLIC
```

®

- This is a sample of the saprfc.ini file used by the fax server.
- DEST MATS is for calls from R/3, the fax server registers itself at the SAP gateway under the specified PROGID.
- DEST MAT is for calls to R/3, the fax server can use one of two types:
  - TYPE A: connects to a specific R/3 application server
  - TYPE B: uses the load balancing feature of the R/3 message server

# SAPconnect: Administration (system status)

Start of evaluation time: 09.09.1999 13:57

	Completed	Error	in transit	Waiting	Duration in transit	Duration Waiting
					∅ hh:mm	∅ hh:mm
<b>P99(000)</b>	0	0	0	27		
<b>FAX</b> Telefax	0	0	0	0	0:00	0:00
<b>HK</b>	0	0	0		0:00	0:00
<b>MPTST</b>	0	0	0		0:00	0:00
<b>INT</b>	0	0	0	26	0:00	0:00
<b>BACK</b>	0	0	0		0:00	0:00
<b>CSTEST</b>	0	0	0		0:00	0:00
<b>HK</b>	0	0	0		0:00	0:00
<b>X40</b> X.400	0	0	0	0	0:00	0:00
<b>RML</b> Remote Ma	0	0	0	1	0:00	0:00
<b>PAG</b>	0	0	0	0	0:00	0:00
<b>PRT</b>	0	0	0	0	0:00	0:00
<b>BACK</b>	0	0	0		0:00	0:00

Navigation: P99 (1) (000) pawdf026 INS

Do the SAPconnect configuration:

- Call: Tools => Business Communication => Communication => SAPconnect, (transaction SCOT, View: System Status).
- Within this transaction you can go over the menu ,View' to the different views, which are displayed on this slide and on the following slides.
- System Status:  
From here you can view all defined output methods (e.g. FAX/PAG/INT/X40) and the already defined nodes (e.g. EXCHG2, PAGE) and you will find information about the processing status.

# General Settings

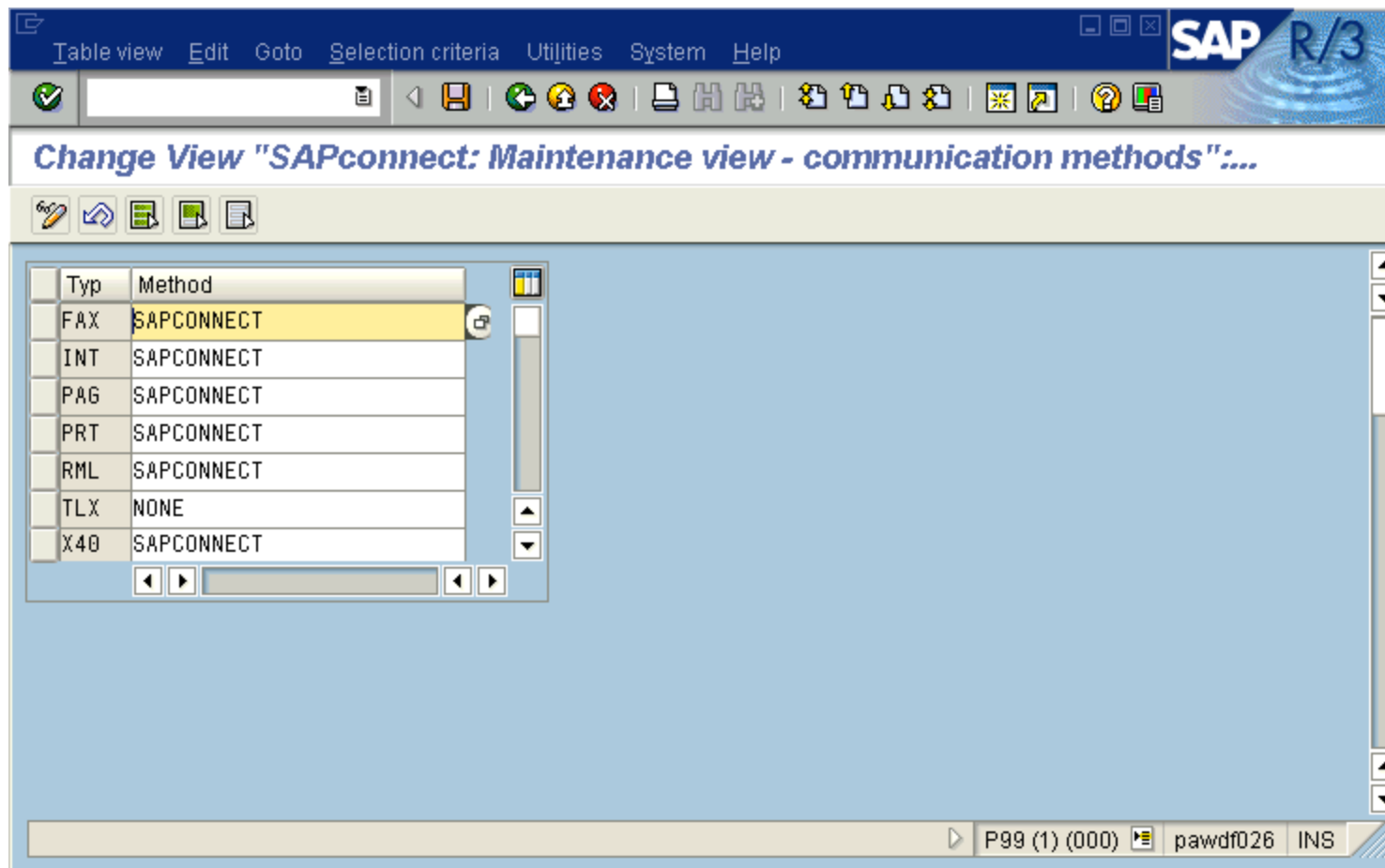
The screenshot shows the SAP R/3 interface for SAPconnect: Admin. The 'Settings' menu is open, with several options circled in red: 'Communication methods', 'Conversion rules', 'Country code', 'Country code exceptions', and 'Recipient no. change (incoming)'. Below the menu, a table displays the configuration for communication methods under the node 'P99 (000)'. The table has columns for 'Duration in transit' and 'Duration Waiting', both in hh:mm format. The data is as follows:

Communication Method	0	0	0	27	0	0:00	0:00
<b>FAX</b> Telefax	0	0	0	0	0	0:00	0:00
HK	0	0	0			0:00	0:00
MPTEST	0	0	0			0:00	0:00
<b>INT</b>	0	0	0	26	0	0:00	0:00
BACK	0	0	0			0:00	0:00
CSTEST	0	0	0			0:00	0:00
HK	0	0	0			0:00	0:00
<b>X40</b> X.400	0	0	0	0	0	0:00	0:00
<b>RML</b> Remote Ma	0	0	0	1	0	0:00	0:00
<b>PAG</b>	0	0	0	0	0	0:00	0:00
<b>PRT</b>	0	0	0	0	0	0:00	0:00
BACK	0	0	0			0:00	0:00

## 1. General SAPconnect Settings

- In Release 4.6 you can access all the SAPConnect settings directly via the 'Settings' menu

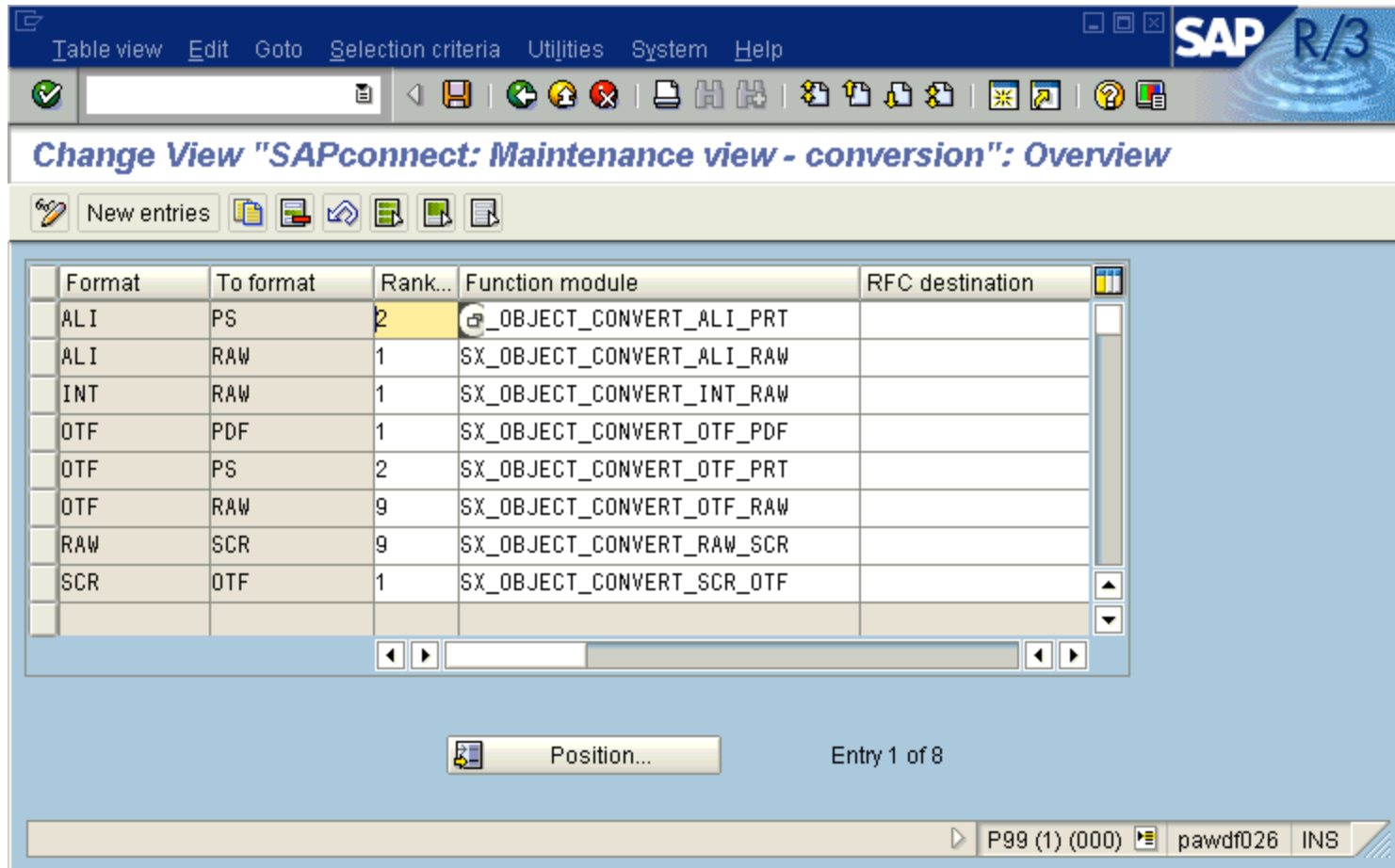
# Communication methods



®

- Settings => Communication methods.
- Set communication method SAPconnect for fax:
  - Set the value for FAX to SAPCONNECT.
- Set communication method SAPconnect for Paging:
  - Set the value for PAG to SAPCONNECT.
- Save the communication methods

# Conversion rules



The screenshot shows the SAP R/3 interface for maintaining conversion rules. The title bar reads "Change View 'SAPconnect: Maintenance view - conversion': Overview". The table below lists the conversion rules:

Format	To format	Rank...	Function module	RFC destination
ALI	PS	2	SX_OBJECT_CONVERT_ALI_PRT	
ALI	RAW	1	SX_OBJECT_CONVERT_ALI_RAW	
INT	RAW	1	SX_OBJECT_CONVERT_INT_RAW	
OTF	PDF	1	SX_OBJECT_CONVERT_OTF_PDF	
OTF	PS	2	SX_OBJECT_CONVERT_OTF_PRT	
OTF	RAW	9	SX_OBJECT_CONVERT_OTF_RAW	
RAW	SCR	9	SX_OBJECT_CONVERT_RAW_SCR	
SCR	OTF	1	SX_OBJECT_CONVERT_SCR_OTF	

At the bottom of the interface, there is a "Position..." button and a status bar showing "Entry 1 of 8". The status bar also displays "P99 (1) (000)", "pawdf026", and "INS".

®

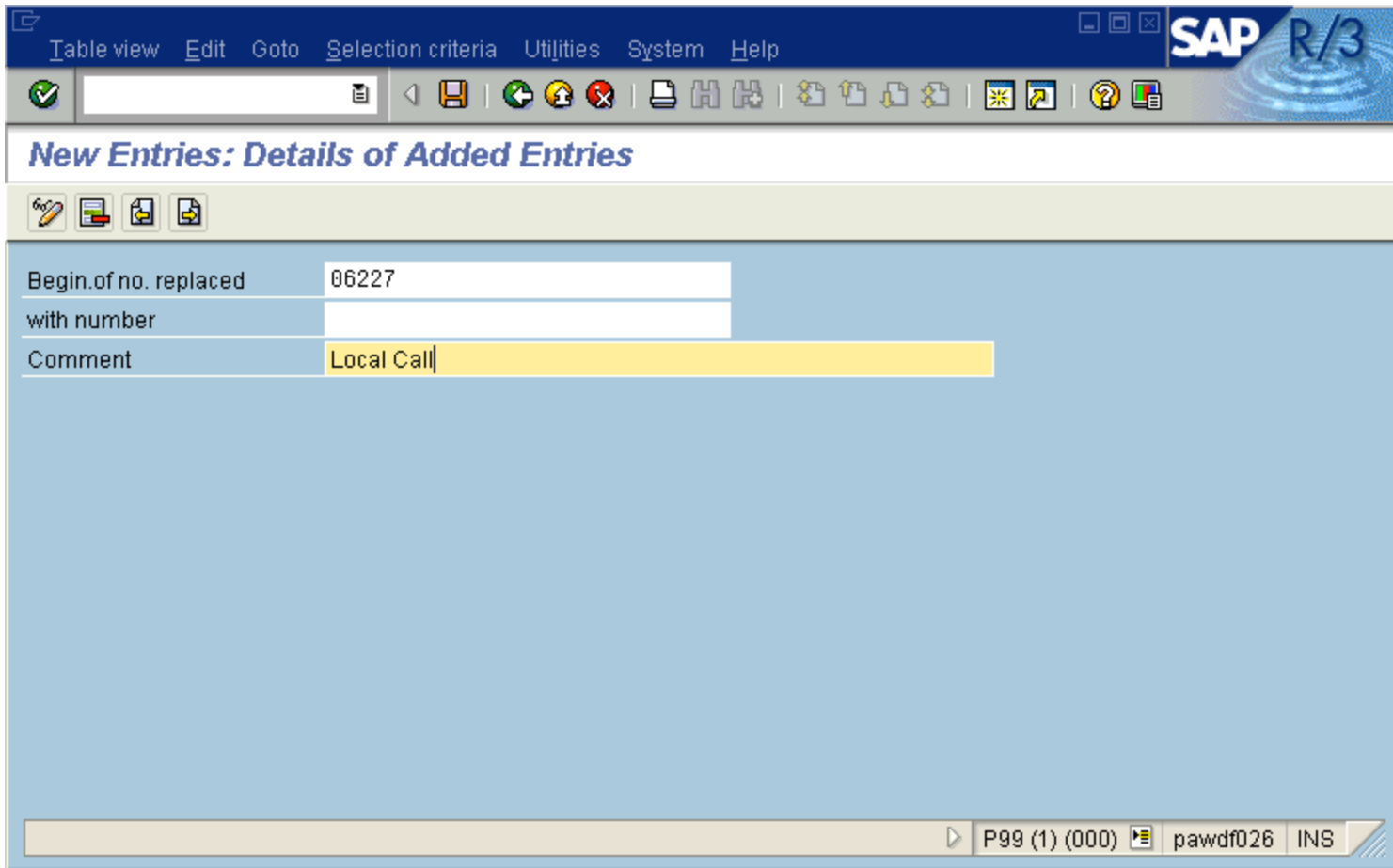
Add a conversion rule (optional):

- In case that the fax server does not support Postscript or PDF format, but another printer language format, e.g. HP PCL, you have to add a new conversion rule. If the fax server supports PS or PDF you can skip this step.
- Settings => Conversion rules, New entries.
- Enter a new rule with
  - Format = OTF
  - To format = extension of the supported printer format, e.g. PCL
  - Ranking = a value between 3 and 8
  - Function module = SX\_OBJECT\_CONVERT\_OTF\_PRT
  - all other fields = empty
- Save the conversion rules.

Important:

- In this case you also have to set the device type of your node to an appropriate value, e.g. HPLJ4, see below: Administration (nodes) -2-.

# Recipient no. change (incoming)



The screenshot shows the SAP R/3 interface for defining a rule. The title bar reads 'New Entries: Details of Added Entries'. The main area contains a table with the following data:

Begin.of no. replaced	06227
with number	
Comment	Local Call

The status bar at the bottom right shows 'P99 (1) (000) pawdf026 INS'.

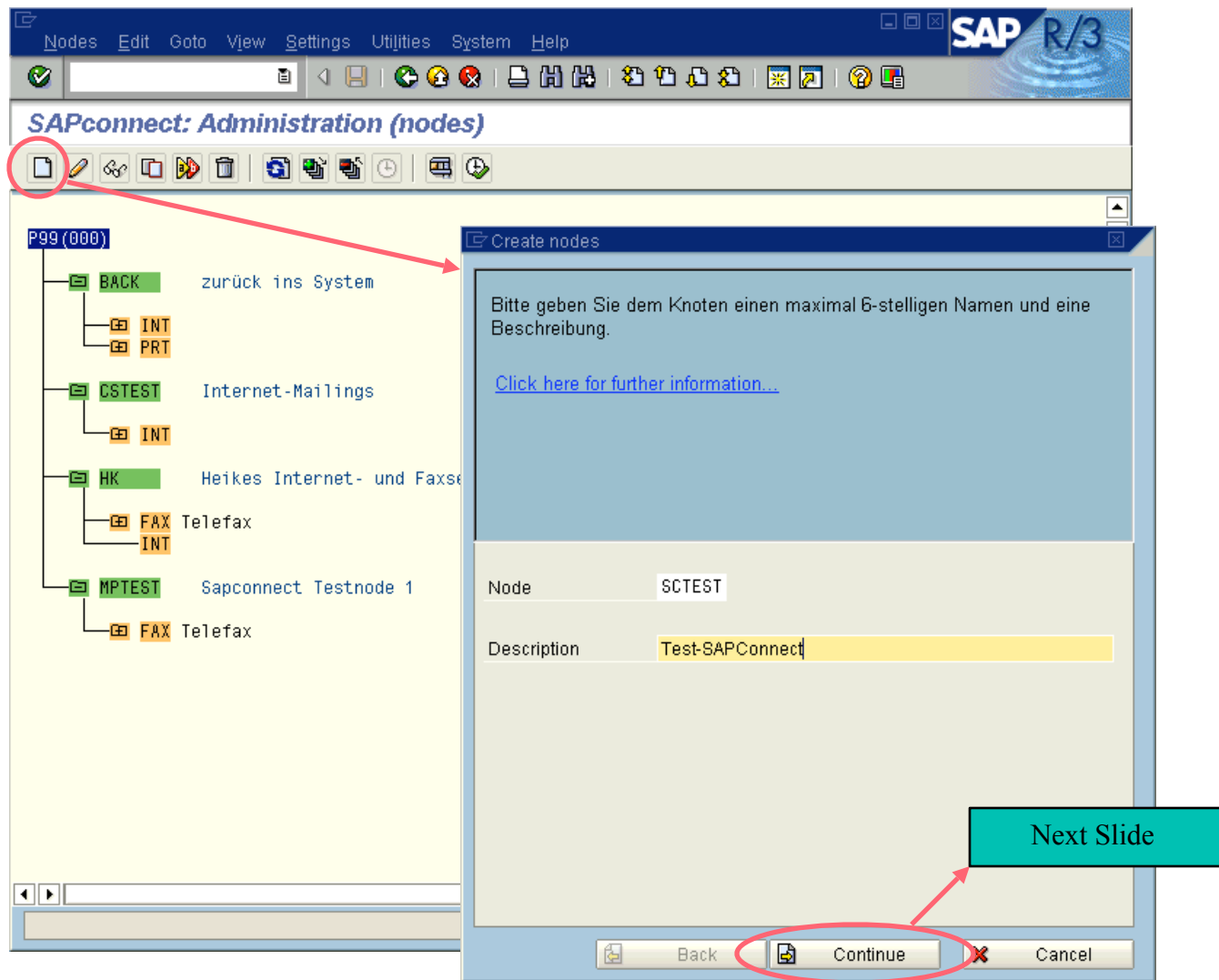
®

Define exception rules for manipulating the recipient's fax number in inbound messages. This is for the match of the recipients number as provided by the PBX or the fax server with the R/3 user's fax number as stored in the R/3 address management.

- New entries.
- Enter a new rule with
  - the beginning sequence of a fax number that shall be replaced
  - the substitute sequence that shall be inserted instead
  - a comment
- Save the rule.

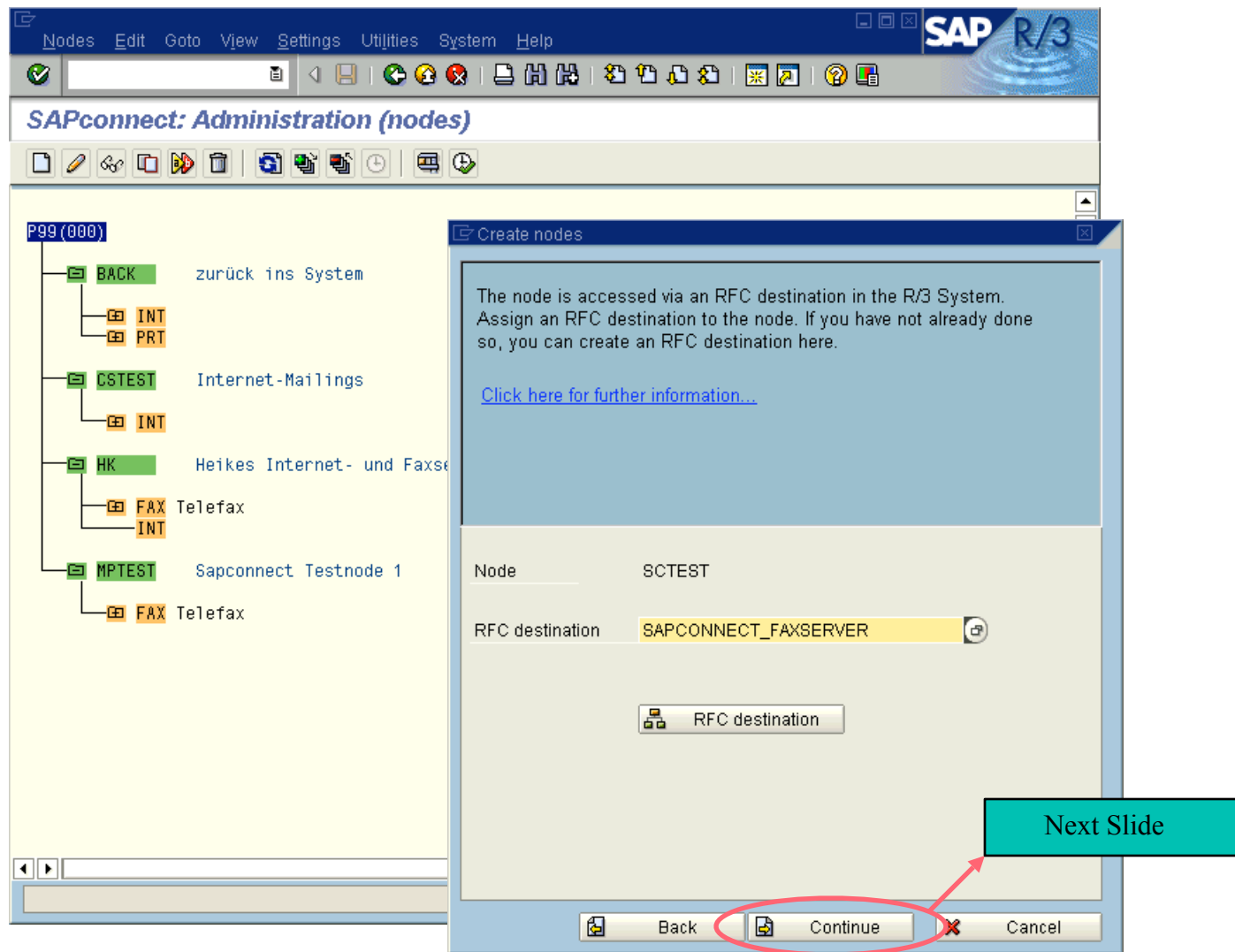


# SAPconnect: Administration (nodes) -1-



- Transaction SCOT (View: Nodes)
- Enter a new node with 'create' push button
  - name of the node (6 characters)
  - Description

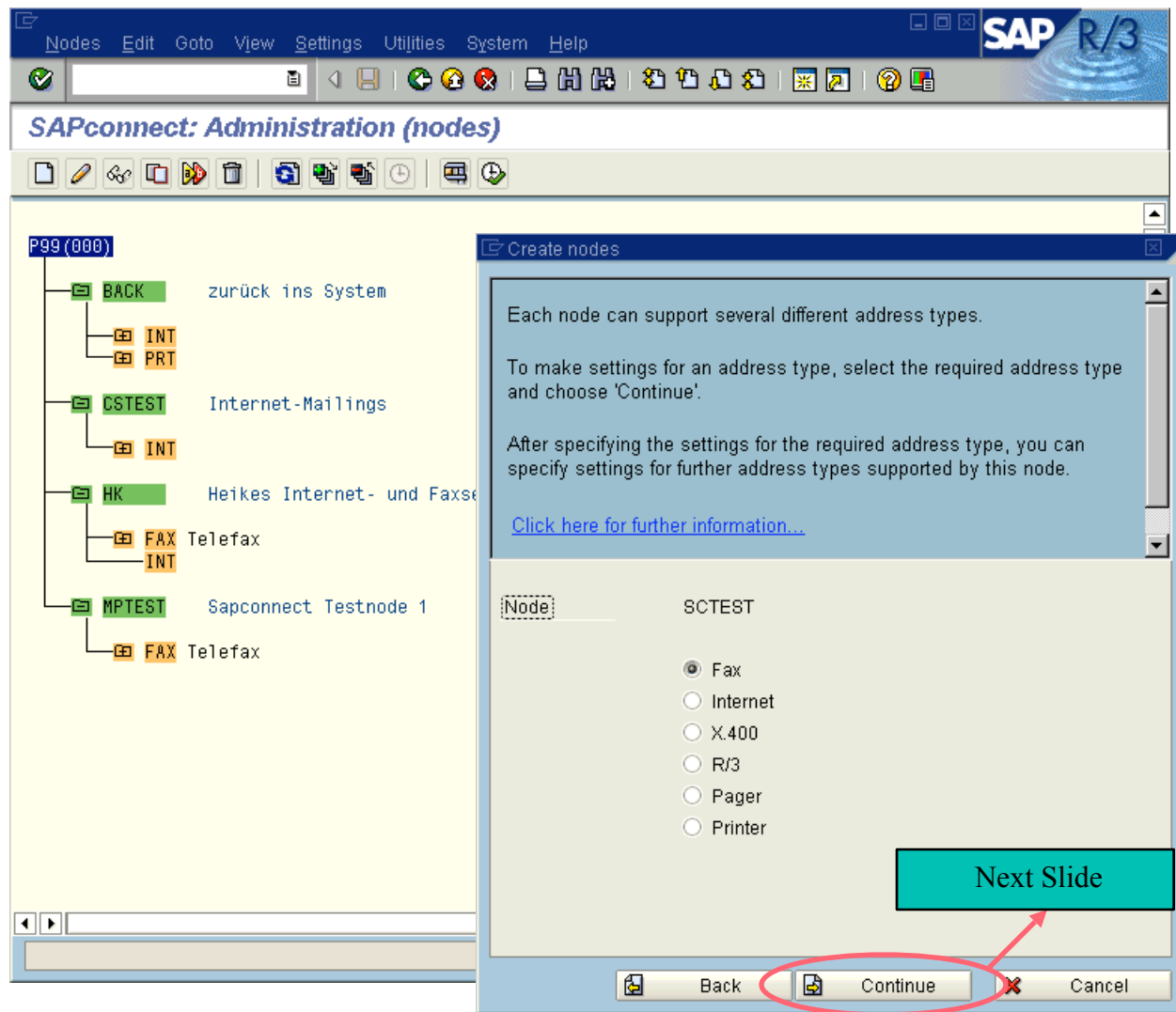
# SAPconnect: Administration (nodes) -2-



RFC configuration:

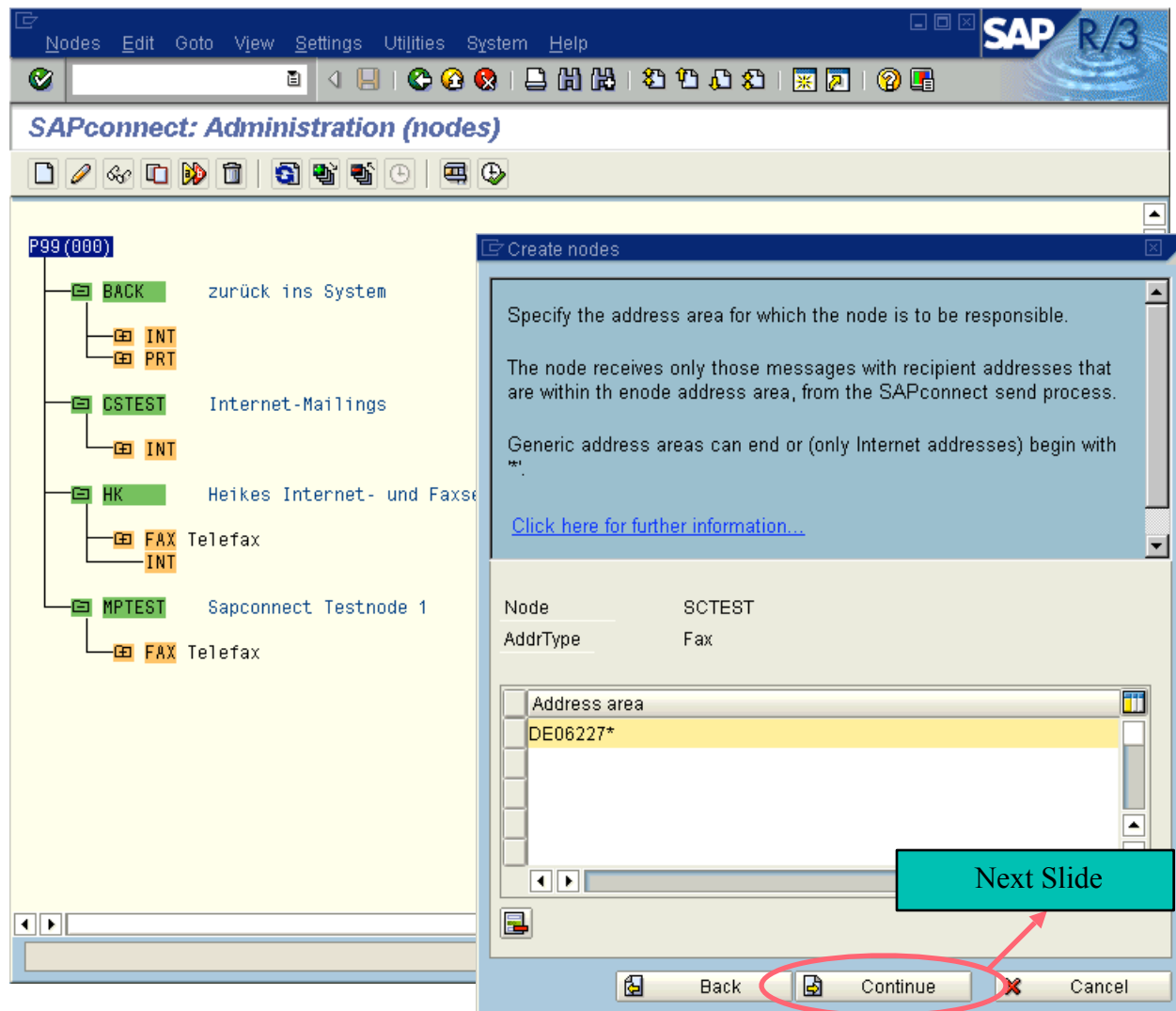
- Enter the RFC destination created before

# SAPconnect: Administration (nodes) -3-



- Select the address type of your node

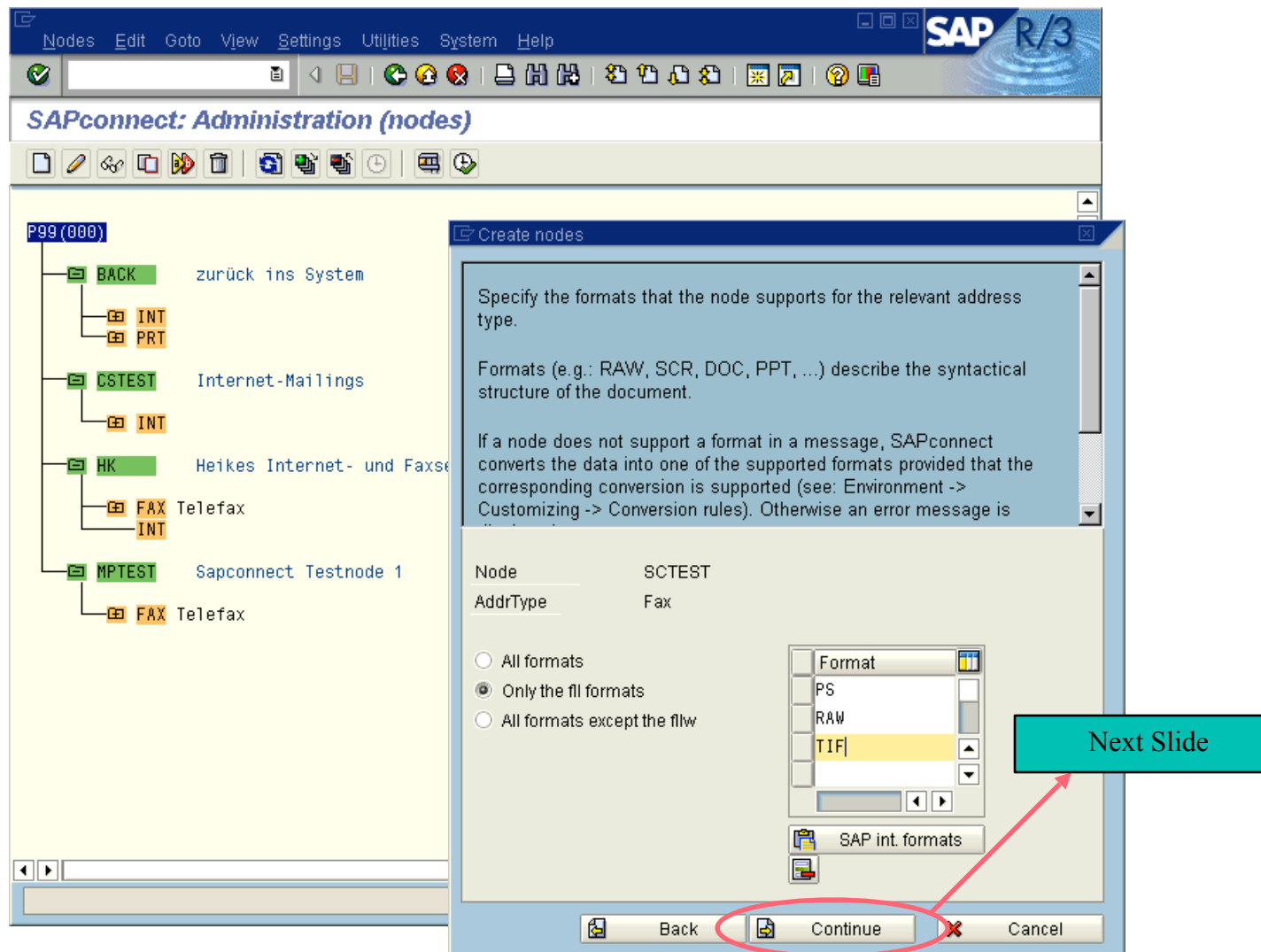
# SAPconnect: Administration (nodes) -4-



®

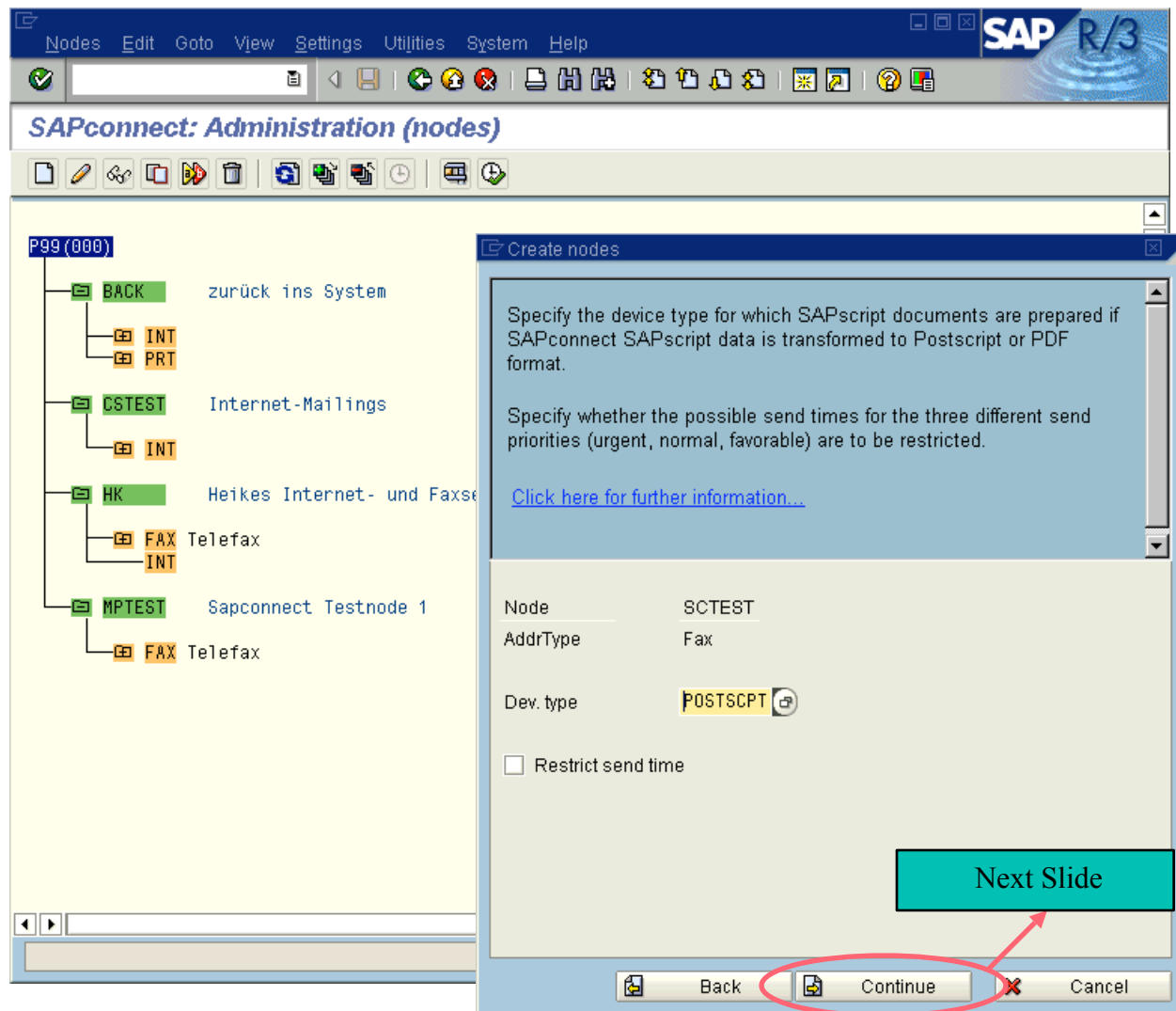
- Enter the address area of your node
  - FAX addresses consist of a country code followed by digits, they may have a wildcard '\*' at the end
  - PAG addresses consist of the Paging type followed by ':' and digits, they may have a wildcard '\*' at the end (e.g. 'D1:0171\*')

# SAPconnect: Administration (nodes) -5-



- For each document format that is supported by the fax server enter a line with the 3-character extension of that format.
  - For plain ASCII text use format RAW
  - For a node of Type PAG you should use RAW

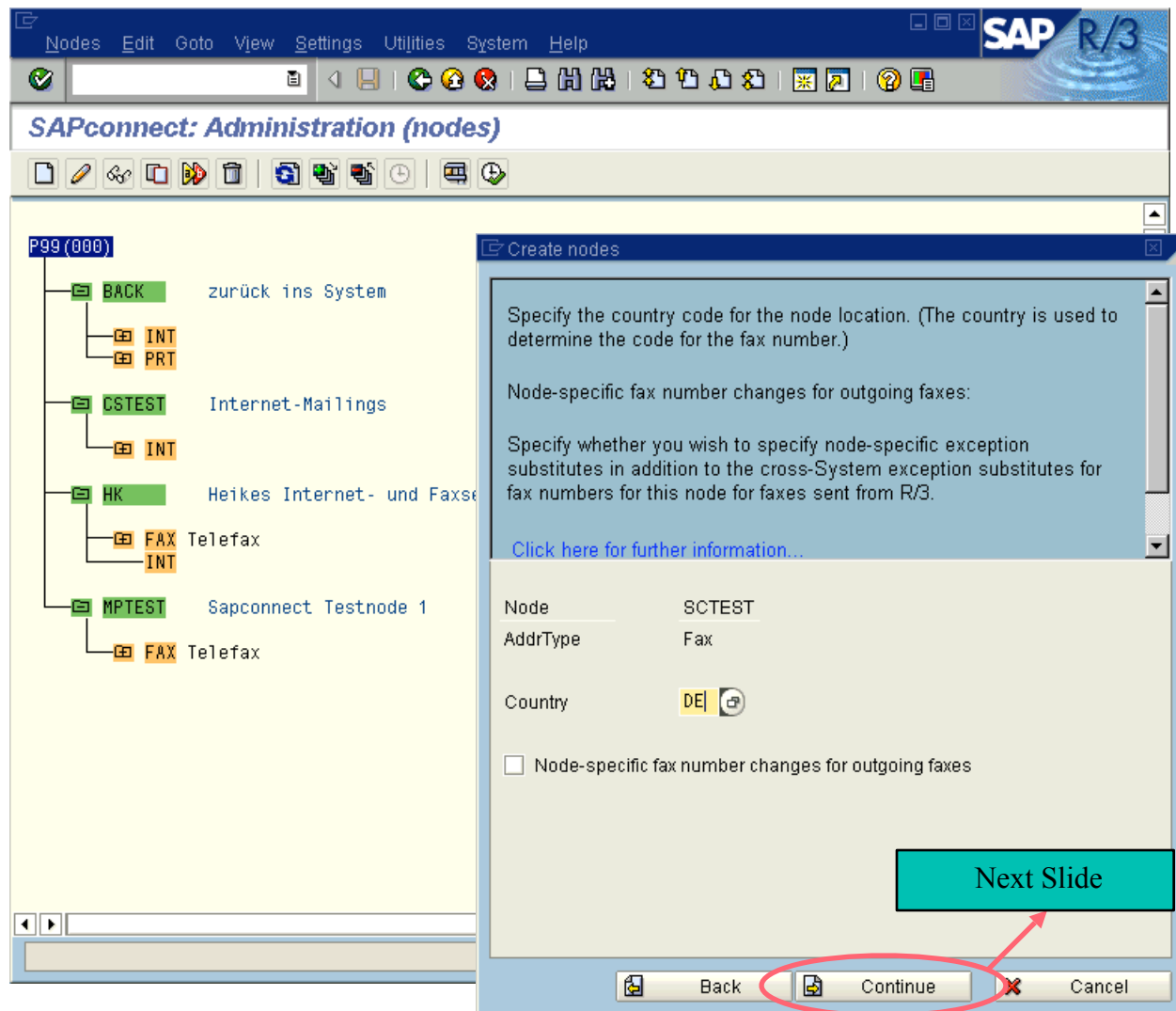
# SAPconnect: Administration (nodes) -6-



®

- Specify the device type of the fax server (e.g. POSTSCPT, HPLJ4, ...)
  - For a node of type PAG use ASCIIPRI

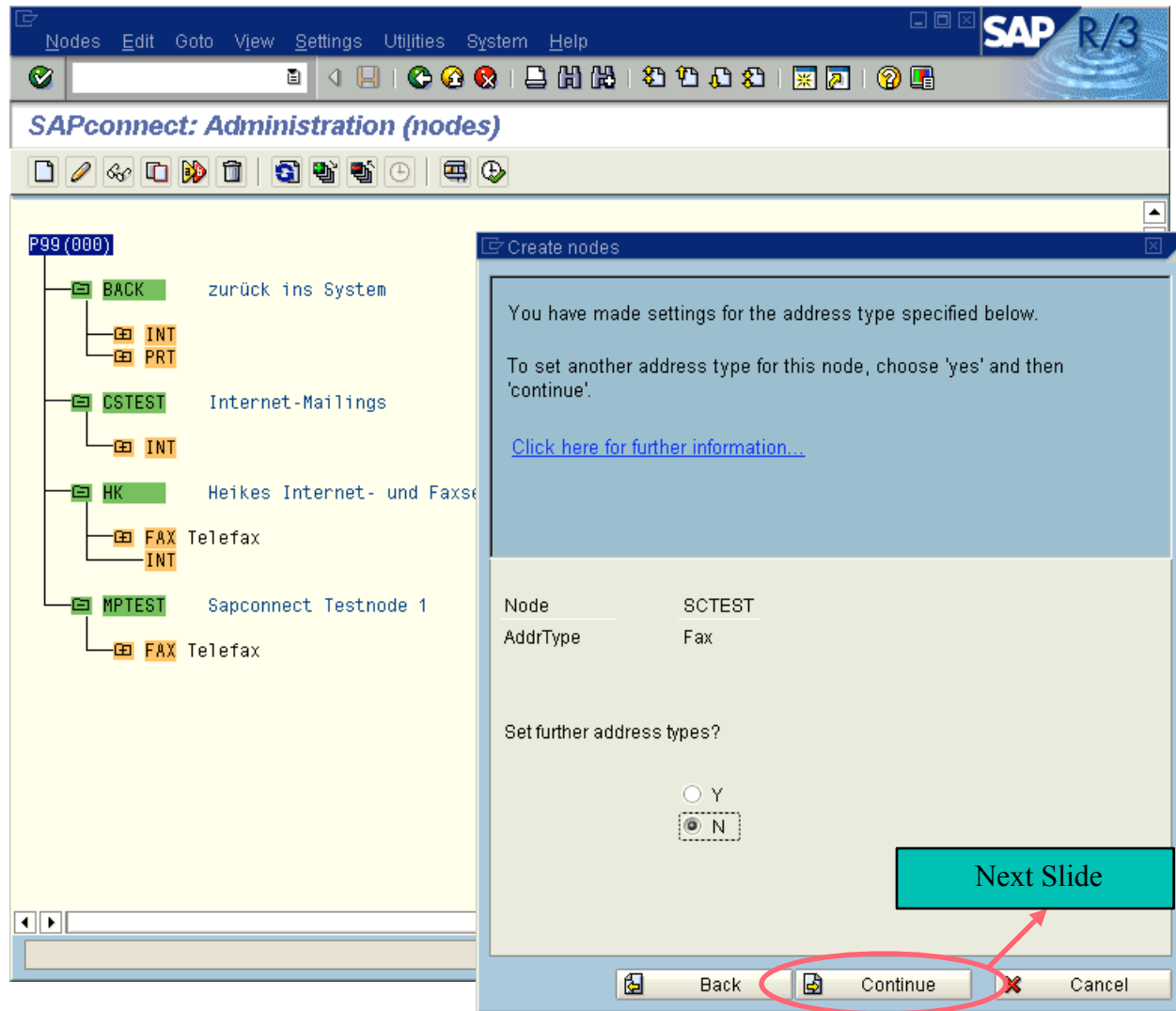
# SAPconnect: Administration (nodes) -7-



®

- Specify the country location of the fax server
- For nodes of type PAG this screen is skipped

# SAPconnect: Administration (nodes) -8-

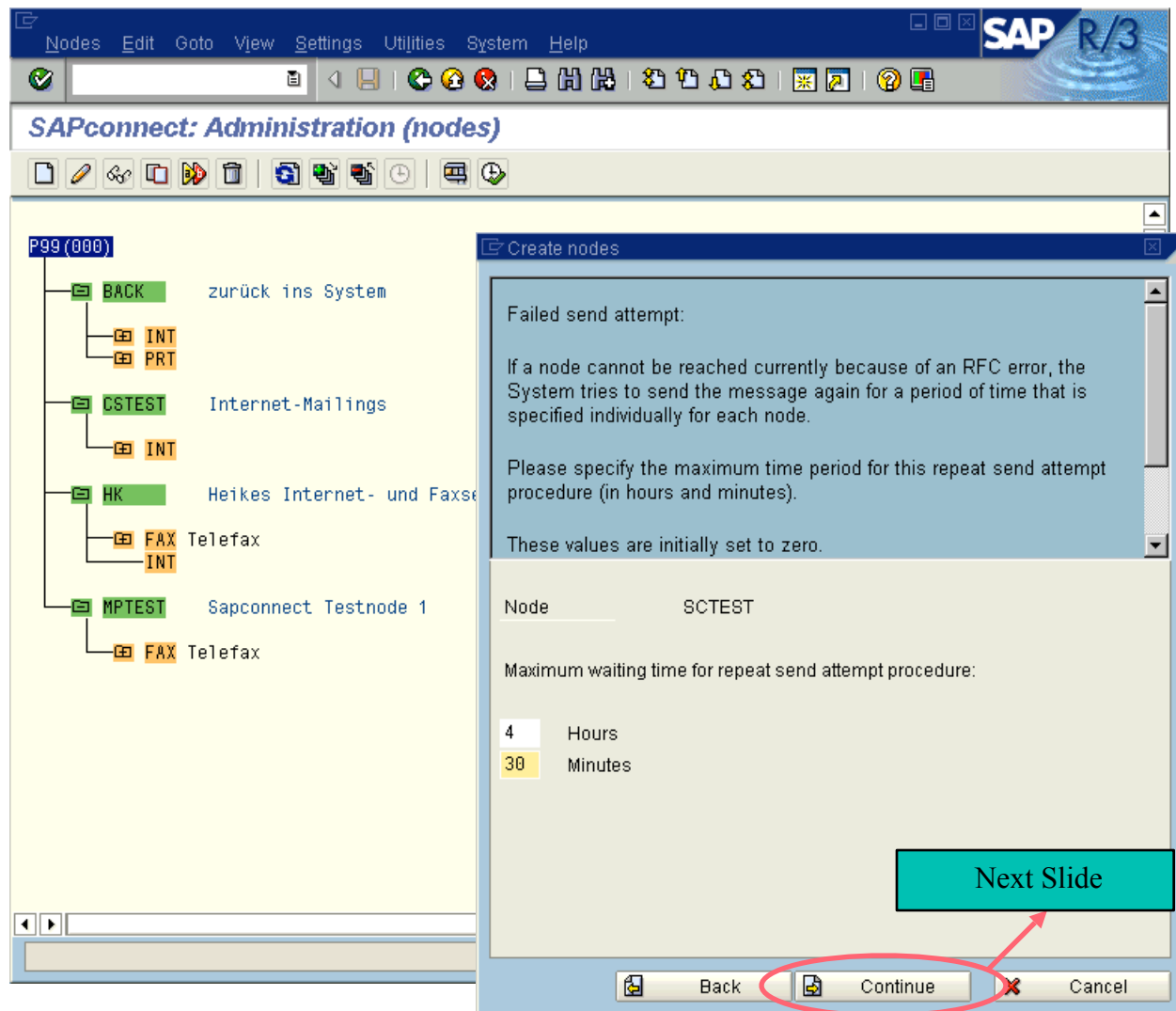


®

- Specify if you want to set another address type for your node



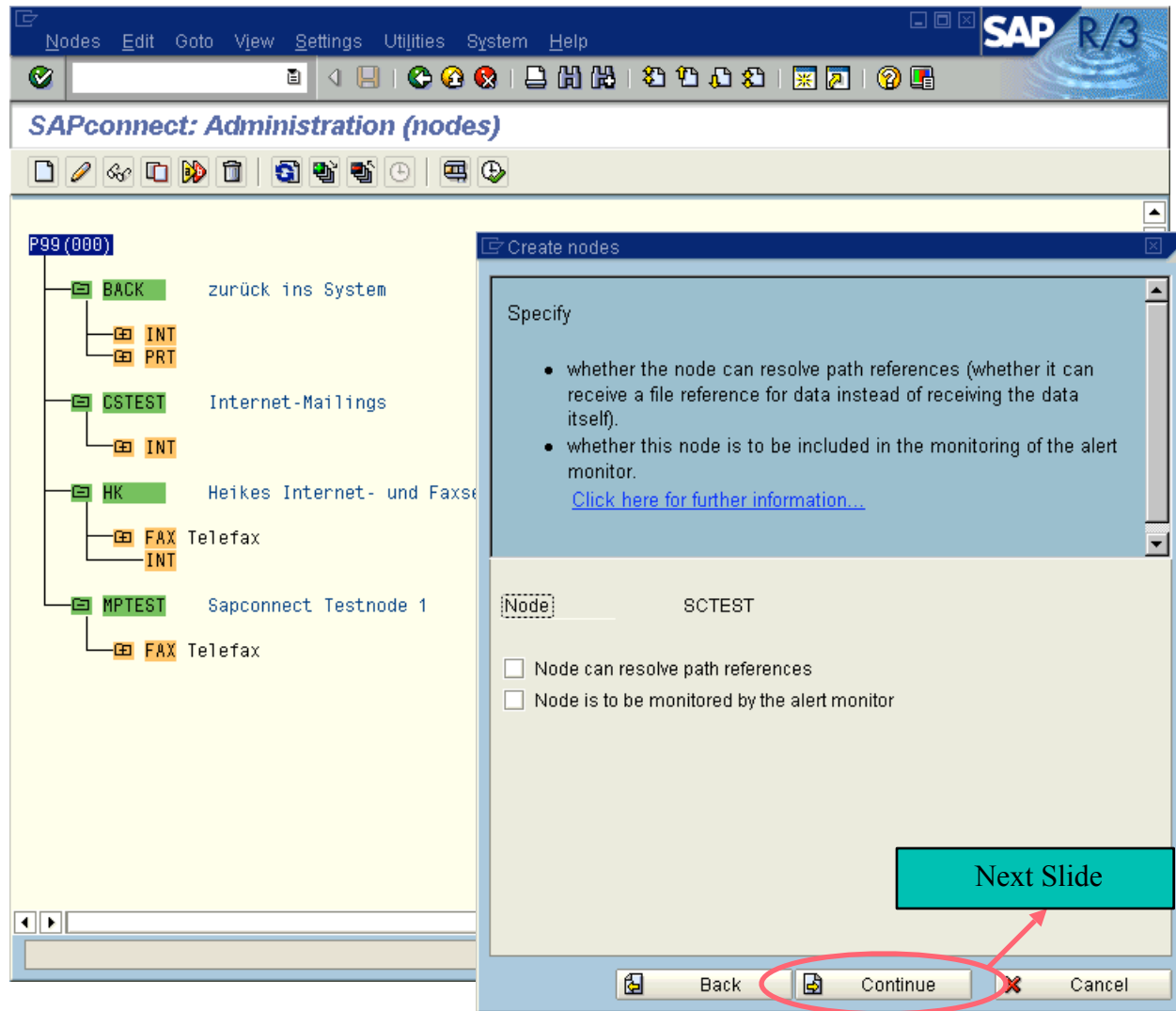
# SAPconnect: Administration (nodes) -9-



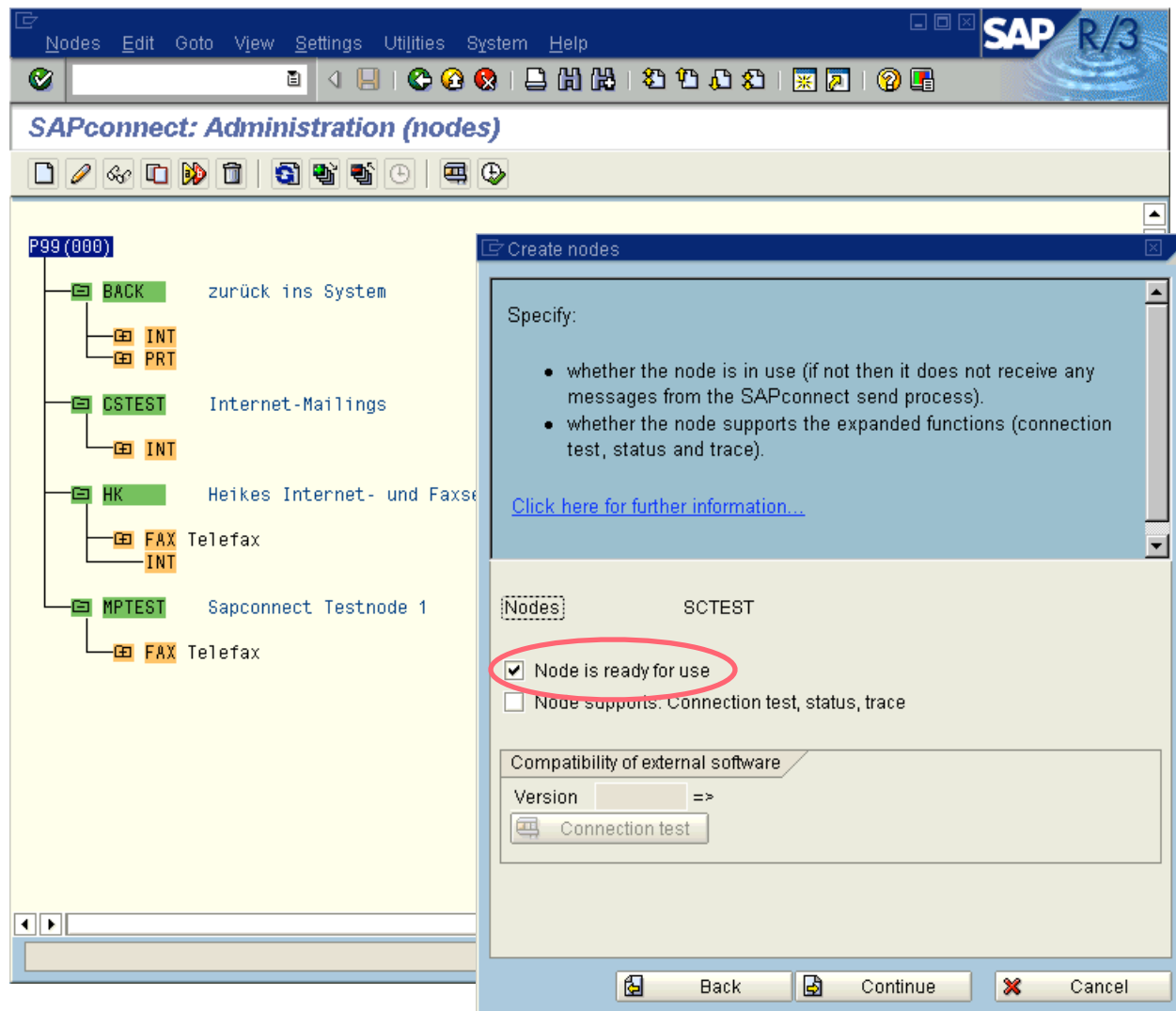
®

- Specify the maximum time period for the repeat send attempt procedure

# SAPconnect: Administration (nodes) -10-



# SAPconnect: Administration (nodes) -11-



®

- To use the node in productive mode: Set the flag 'Node is ready for use'

# Routing Test

The screenshot shows the SAP R/3 interface for the 'SAPconnect: Test routes' transaction. The window title is 'SAP R/3' and the menu bar includes 'Routes', 'Edit', 'Goto', 'System', and 'Help'. The main area is divided into two sections: 'Sender and recipient' and 'Outbound node and modified recipient address'. The 'Sender and recipient' section contains the following fields: 'Sender' (PFEFFERM), 'RecipientAddr.type' (FAX), and 'Recipient addr.' (DE0622712345). The 'Outbound node and modified recipient address' section contains the following fields: 'Node' (SCTEST) and 'Recipient addr.' (0622712345). The status bar at the bottom right shows 'P99 (1) (000)', 'pawdf026', and 'INS'.

Sender and recipient	
Sender	PFEFFERM
RecipientAddr.type	FAX
Recipient addr.	DE0622712345

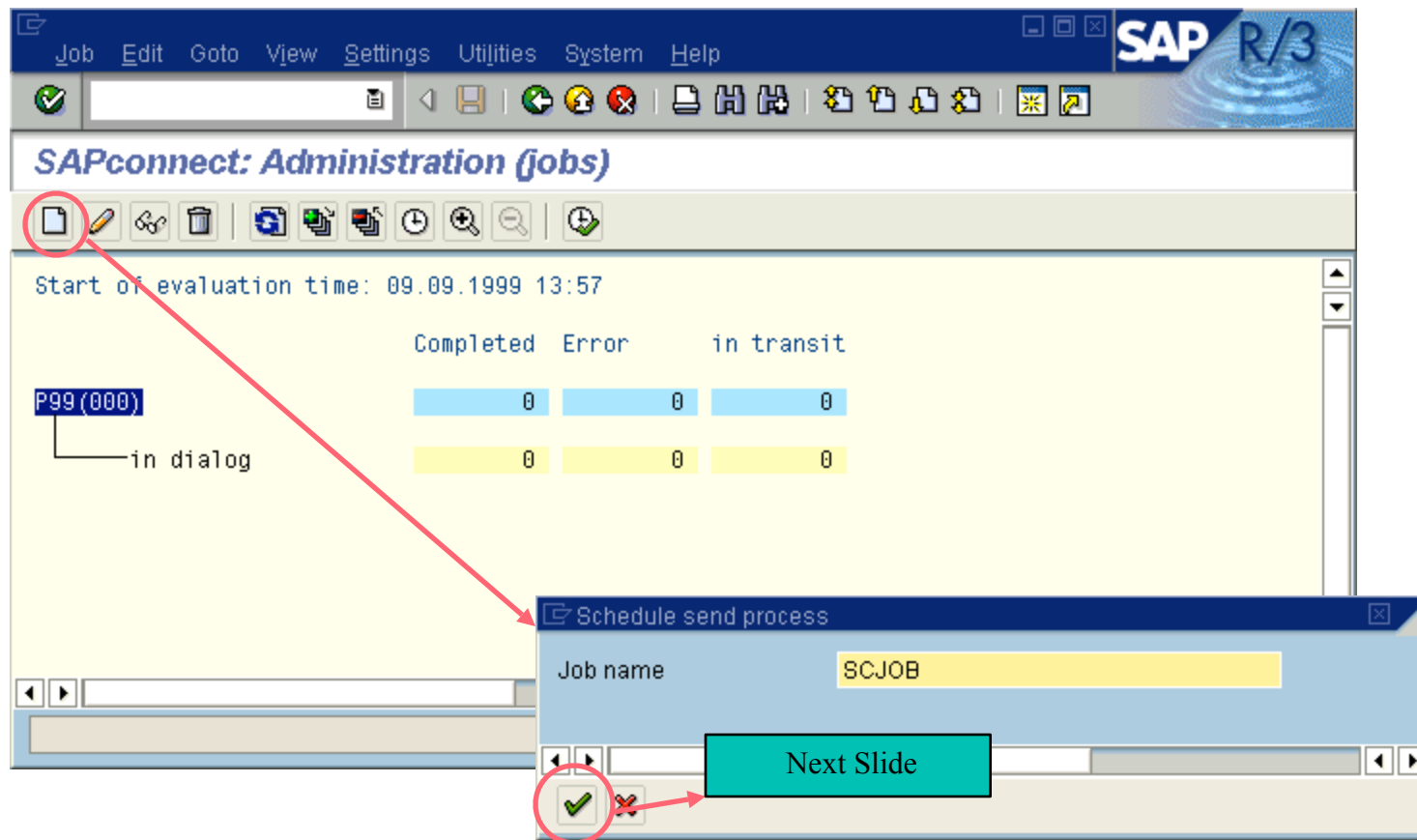
Outbound node and modified recipient address	
Node	SCTEST
Recipient addr.	0622712345

®

Test the routing of a fax message:

- Transaction SCOT (Utilities -> Routing test)
- Enter a communication service (,FAX') and an address, press Enter.
- In the box ,Outbound node and address' will be displayed, which node would be used when sending a fax to that number, and how the number would be adapted according to the international country codes and your exception rules.

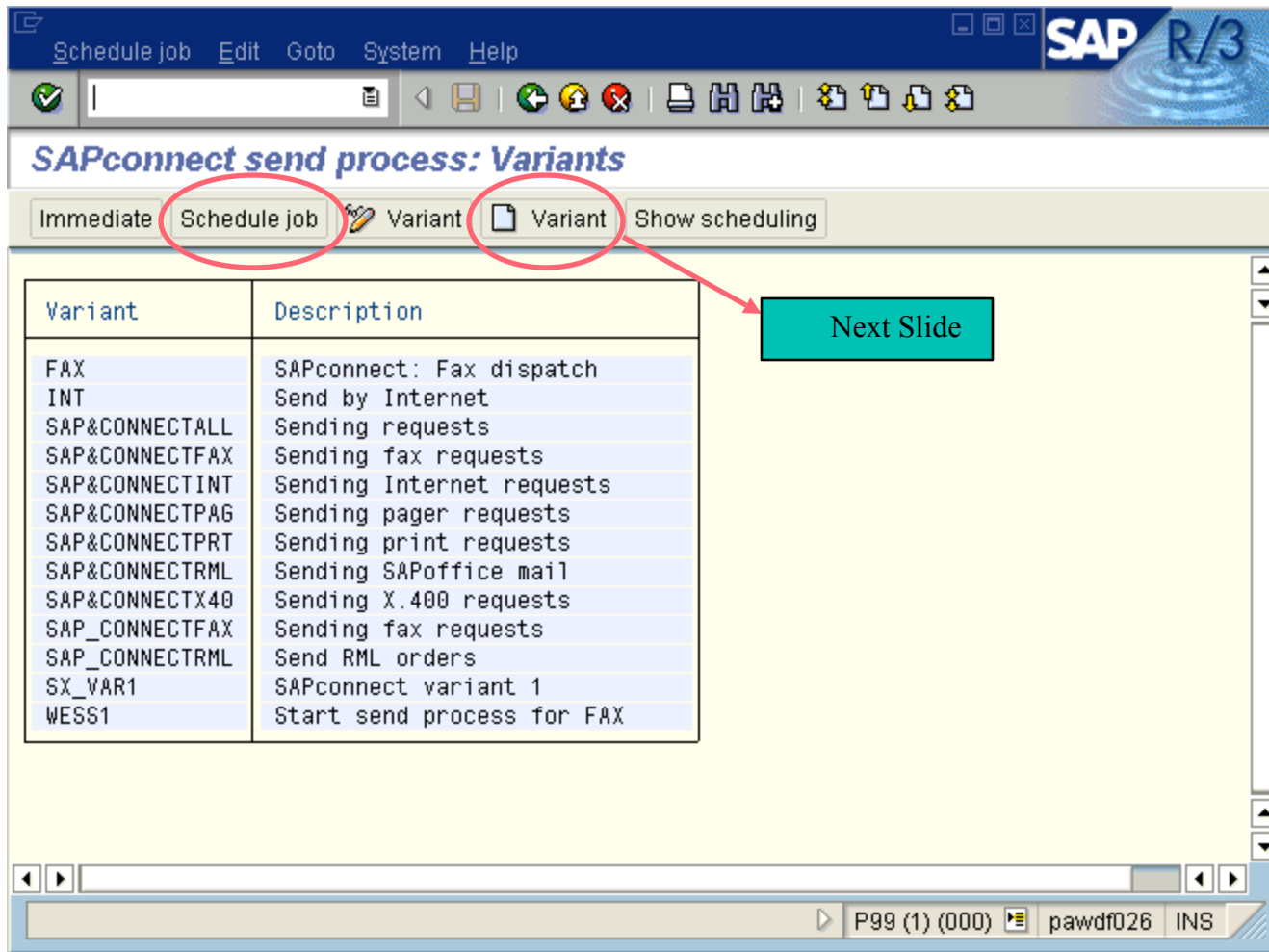
# SAPconnect: Administration (jobs)



®

- Transaction SCOT (View: Jobs)
- From here you can start the sending process in dialog or you can schedule a background job for the sending process.

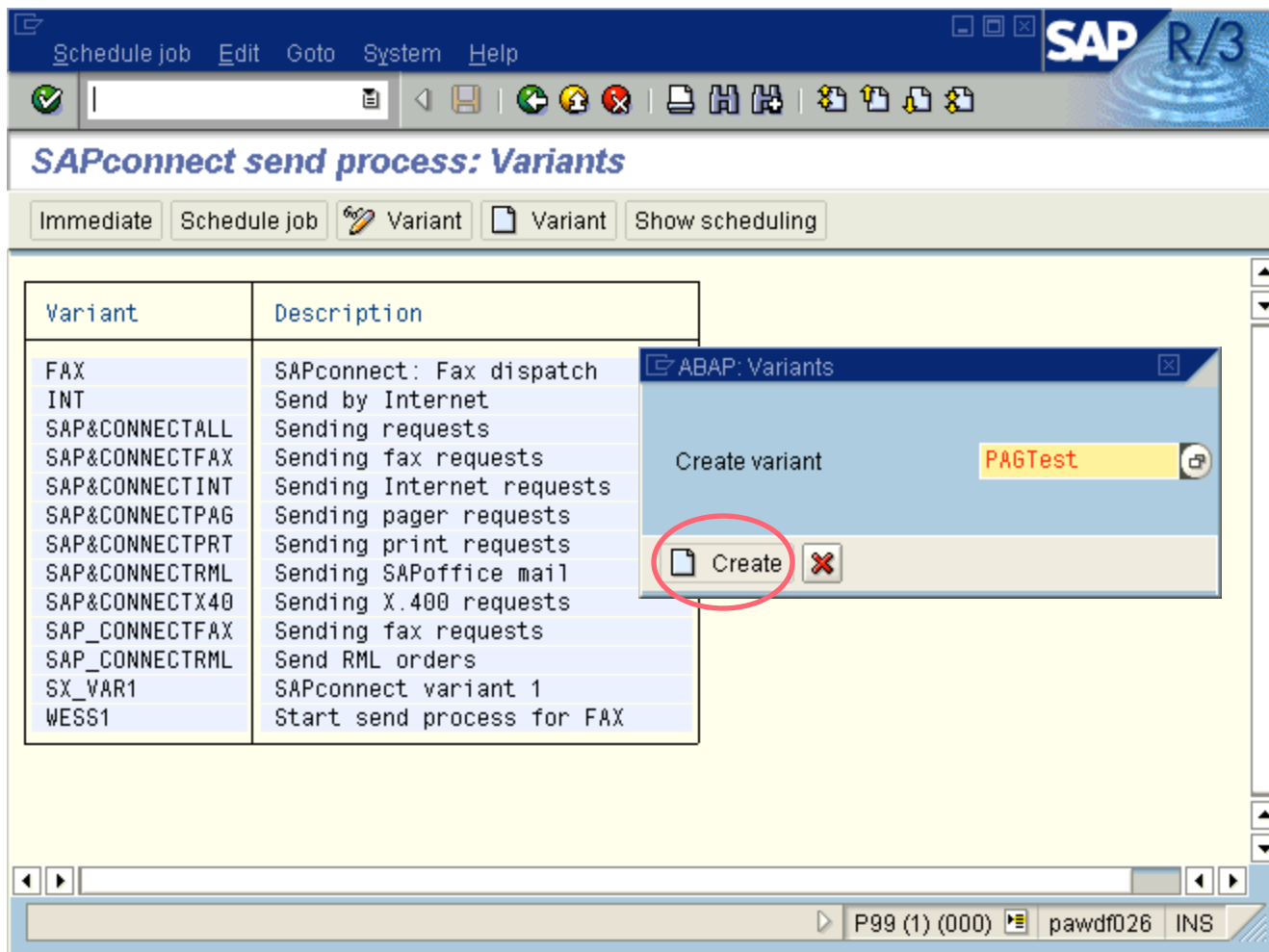
# Scheduling of Background Jobs -1-



®

- Select the variant you want to create a background job with and press 'Schedule Job'
- If you want to create a new variant press Create variant (see next slides)

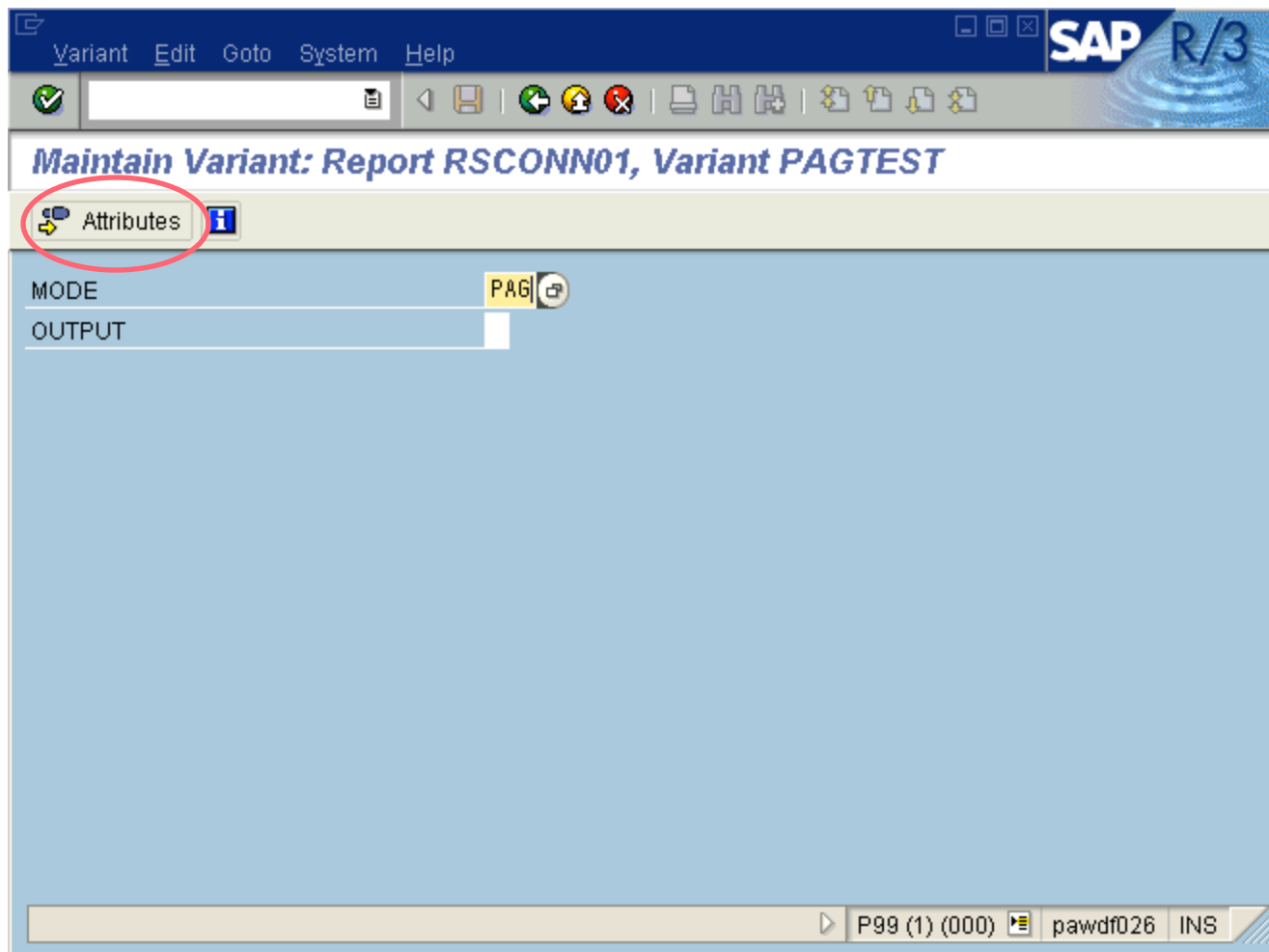
# Scheduling of Background Jobs -2- Creating a Variant



®

- Enter the name of the variant and press 'create'

# Scheduling of Background Jobs -3- Creating a Variant

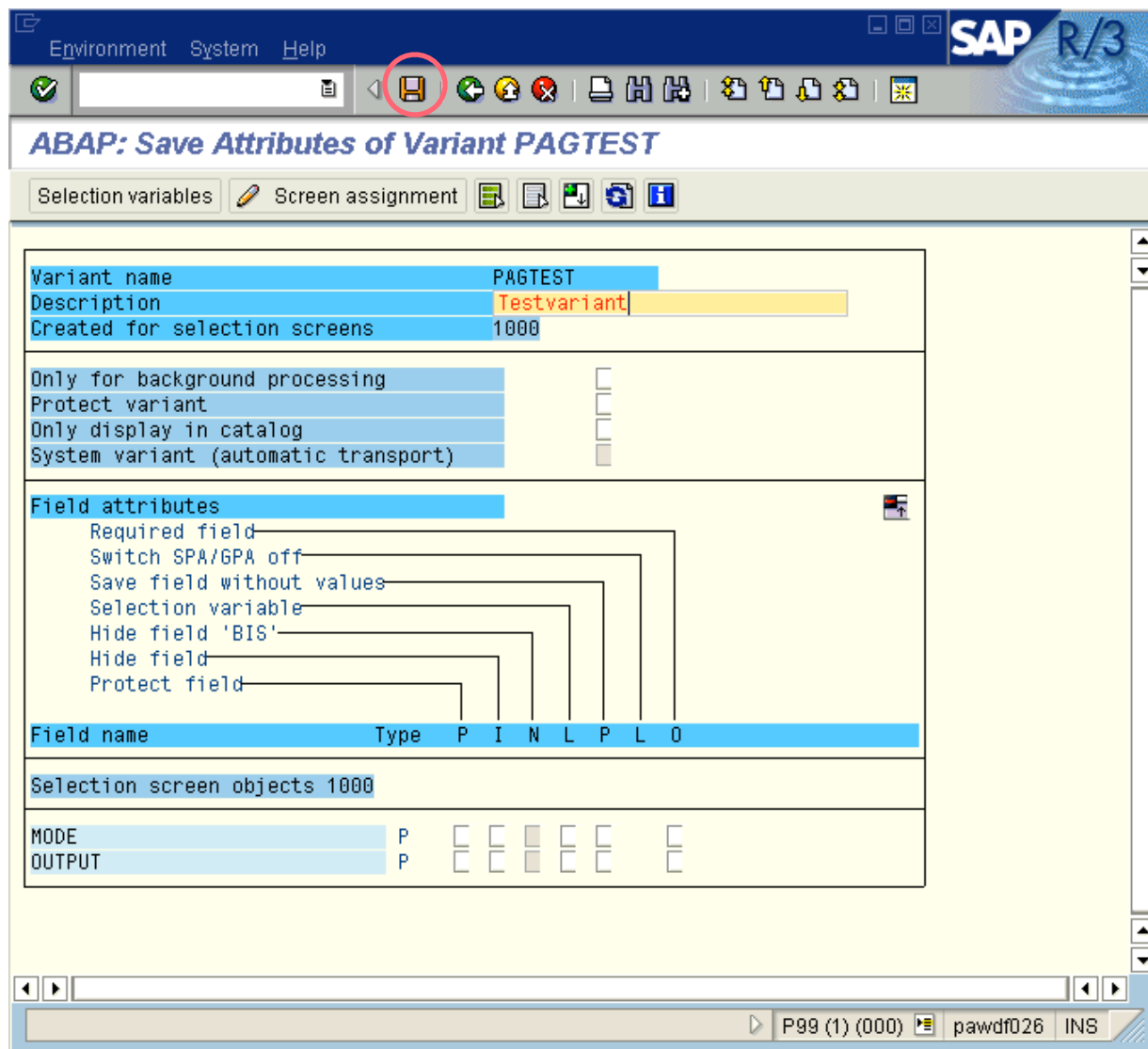


®

- Enter the mode of your new variant (e.g. FAX, PAG, INT,...)
- If you want to create a generic variant enter '\*' for mode
- Leave the 'OUTPUT' field blank
- When done press continue



# Scheduling of Background Jobs -4- Creating a Variant



®

- Enter the description of your variant and save it

# Scheduling of Background Jobs -5-

SAP R/3

Schedule job Edit Goto System Help

SAPconnect send process Scheduling: Start Time

Show scheduling

Plan version FAX  
SAPconnect: Fax dispatch

Schedule

Execution date

Date 10.09.1999  
Time 16:01:23

Schedule once Schedule periodically

Period Duration

Repeat period

Months 1  
Weeks 1  
Days 1  
Hours 1  
Minutes 1

P99 (1) (000) pawdf026 INS

®

- Enter the date and time you want the job to start at
- Select 'Schedule once' if you want to run that job only once at the specified time
- Select 'Schedule periodically' and enter the desired period if you want the job to run periodically (e.g. 30 minutes) and press the create button
- Make sure not to chose a too short period (e.g. 1 minute)!

# Assign Fax Numbers to R/3 Users

The screenshot shows the SAP R/3 'Maintain User' transaction for user PFEFFERM. The 'Communication' section is active, and the 'Fax' field is circled in red, containing the value '06227/7 - 74015'. The 'Person' section shows the user's name as Markus Pfeffer. The 'Company' section shows 'SAP AG / Neurottstr. 16 / D-69190 Walldorf'. The status is 'Saved' and the last change was on 01.09.1999 at 15:26:14.

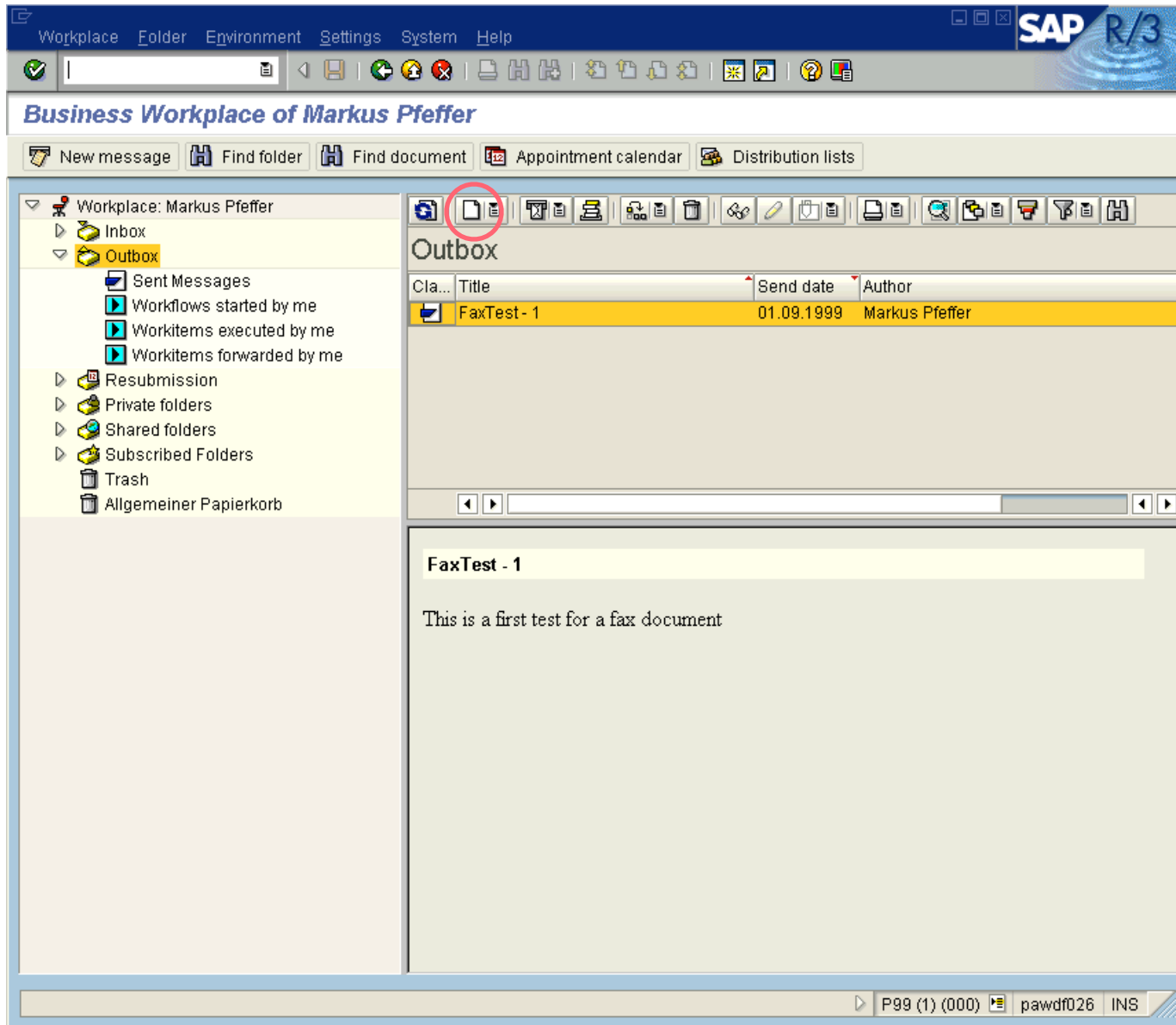
Field	Value
User	PFEFFERM
Last changed by	PFEFFERM
Last changed on	01.09.1999 15:26:14
Status	Saved
Person Title	
Person Last name	Pfeffer
Person First name	Markus
Person Acad. title	
Person Format	Markus Pfeffer
Person Function	
Person Department	
Person Room no.	
Person Floor	
Person Building	
Communication Language	
Communication Telephone no.	
Communication Fax	06227/7 - 74015
Communication Internet mail	
Company	SAP AG / Neurottstr. 16 / D-69190 Walldorf

®

Assign a fax address to each R/3 user:

- Each user who wants to send messages from R/3 via fax or other external communication services must have an originator address of the appropriate address type.
- Call: Tools => Administration, User maintenance => Users (transaction SU01), enter the user name and press the Change push button.
- Enter the user's fax number.
- Save the user address.

# Sending Faxes from SAPOffice (1)

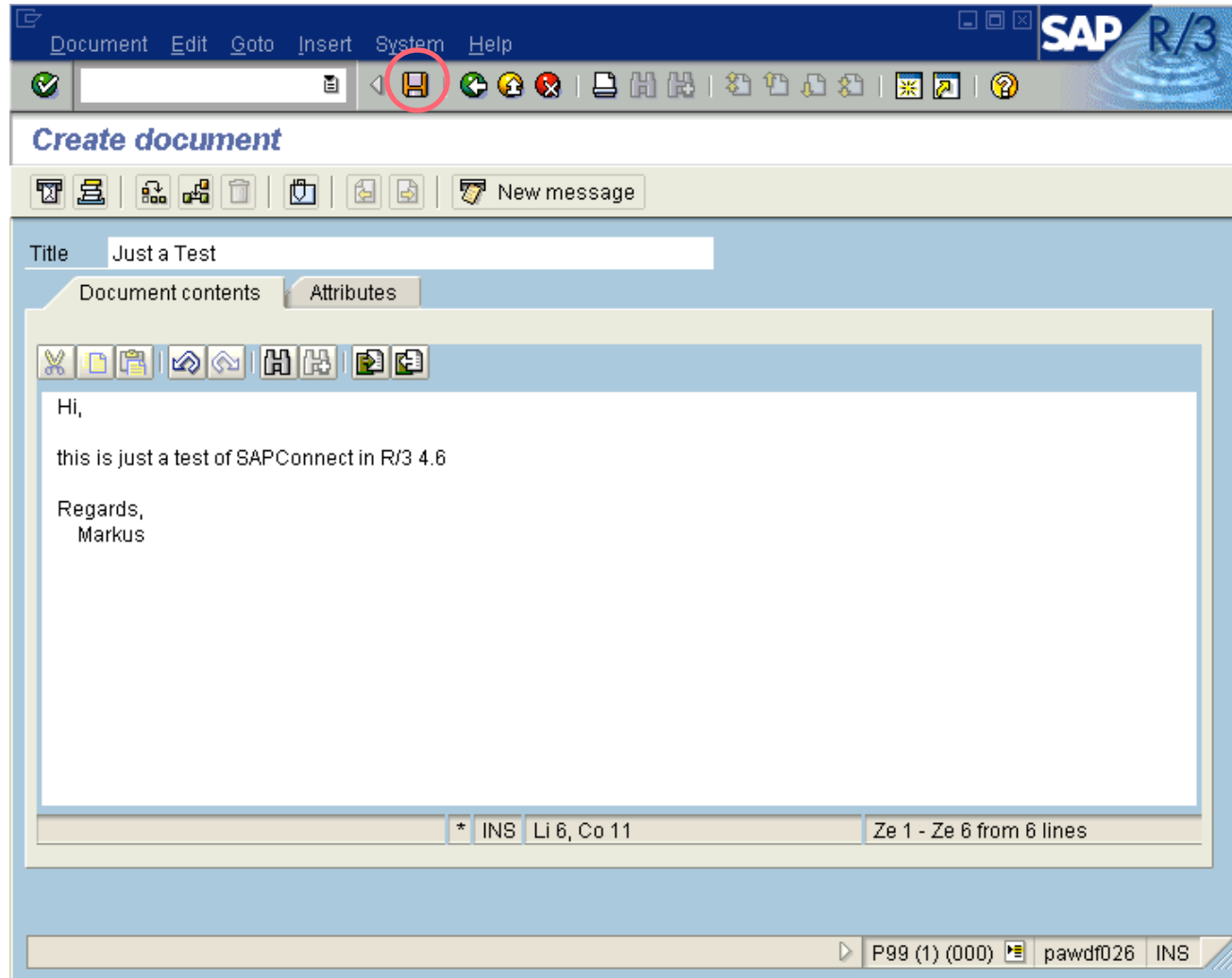


®

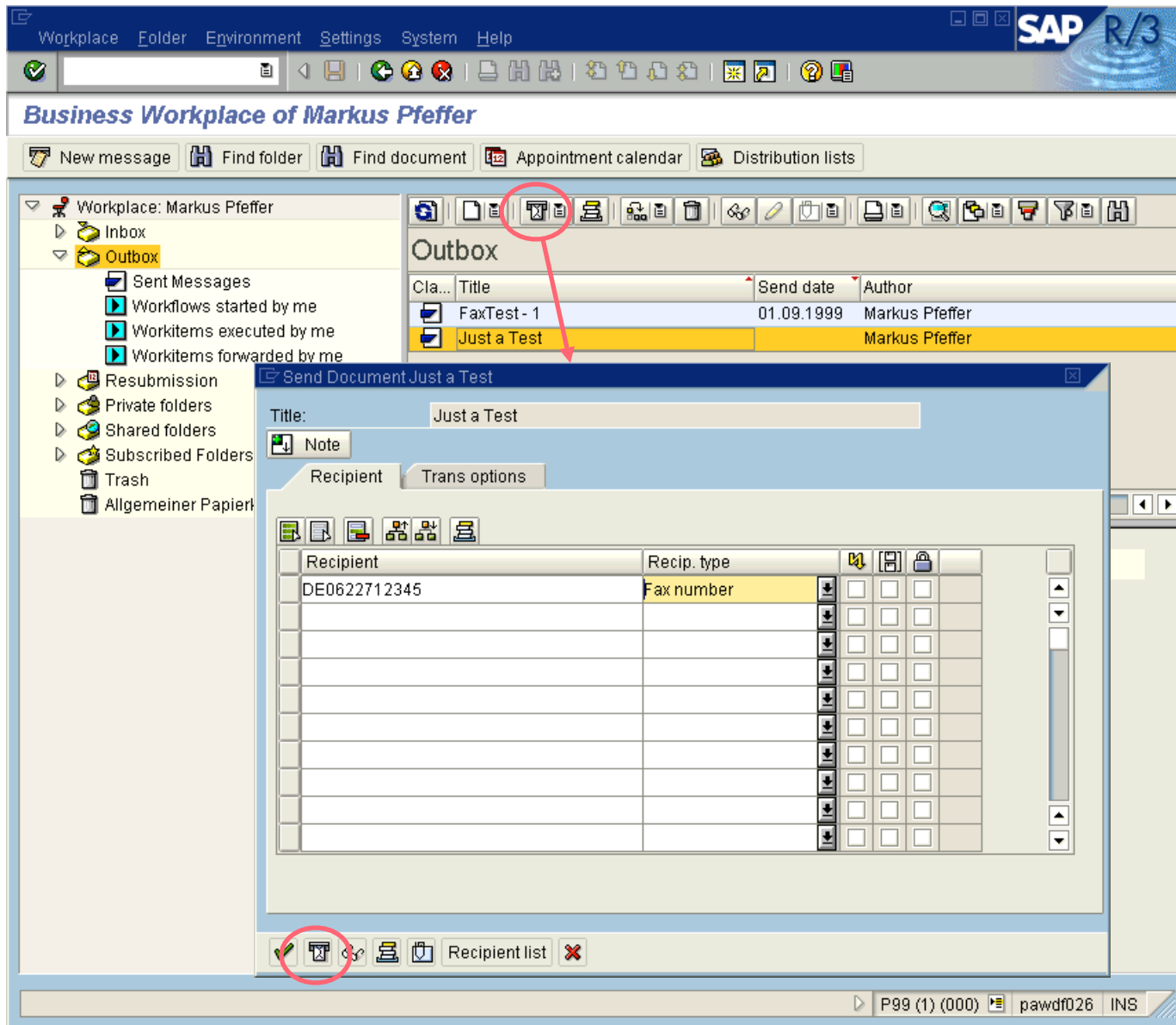
Send a fax out of SAPOffice:

- You have to create a SAPOffice document and to send it to a fax number.
- Go to the Outbox in your Business Workplace (transaction SO02)
- Create a new document
- Enter Type and Title of document.
- Continue with the content input for your document.
- Save your document.

# Sending Faxes from SAPOffice (2)



# Sending Faxes from SAPOffice (3)

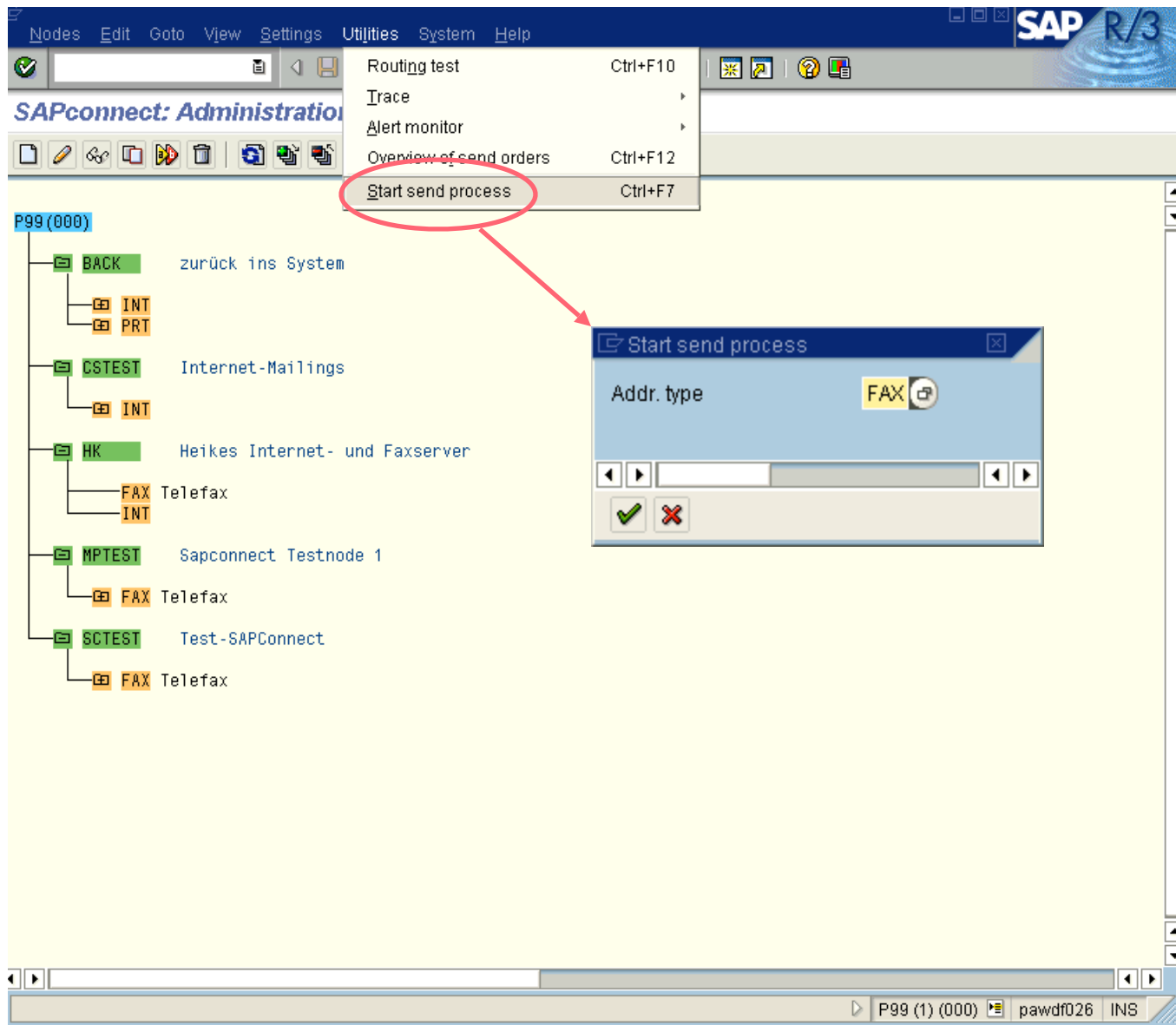


®

Send a fax out of SAPOffice:

- Select your document for sending.
- Call: Document => Send ... (or Shift+F8)

# Activate Sending Process manually



®

Activate Sending Process manually:

- From SAPconnect Administration (Transaction SCOT (View: Jobs)) call 'Goto -> Start send process'
- Enter the desired address type

# Review Status of Outgoing Fax(1)

The screenshot shows the SAP R/3 Business Workplace interface for Markus Pfeffer. The left sidebar displays the folder structure, including 'Sent Messages'. The main window shows a list of sent messages with the following data:

Ty...	Title	Att...	Send date	Send time	Rece...	View...
	Just a Test		10.09.1999	15:14:38	2	
	FaxTest - 1		01.09.1999	15:30:15	1	

The message 'Just a Test' is selected, and its content is displayed in the main window:

**Just a Test**

Hi,

this is just a test of SAPConnect in R/3 4.6

Regards,  
Markus

The status bar at the bottom indicates 'P99 (1) (000) pawdf026 INS'.

®

## Review Status of Outgoing Fax:

- Call: Office => Outbox (transaction SO02),
- DoubleClick on the receiver column of the outgoing document.
- Review the status.
- You can also review the transmission history of the sending request over the marked push button 'Transm. history'.



# Review Status of Outgoing Fax(2)

Document Edit Goto Settings System Help **SAP R/3**

Display Document: Just a Test

Reply... Reply w/reference... New message

Doc. contents Attributes Recipient list

Recipient	Notes	sent	Read	Replied	Corre...	Forwarder
DE 0622712345		10.09.1999 15:14:38				
DE 06227712345		10.09.1999 15:21:19				

**Recipient** DE 06227712345 via Telefax

**Sender** Markus Pfeffer **Sent on** 10.09.1999 15:21:19

**Send attribs** None

**Status return** Status is always confirmed  
Status mail is only placed in inbox if errors occur

**Trans. history**

10.09.1999	15:21:19	Wait for communications service
	15:21:19	Document sent
	15:21:40	Message cannot be transferred to node SCTEST at present due to RFC error

P99 (1) (000) pawdf026 INS

®