



i4Spool Manual

Programmer's Guide & Reference Manual

Copyright GOERING iSeries Solutions

Table of Contents

Part 1 Editorial/Introduction	3
1.1 Editorial	3
1.2 Introduction	5
Part 2 Installation/Licensing	6
2.1 Overview	6
2.2 Downloading from the Internet	7
2.3 Preparations	8
2.4 Update Proceeding	9
2.5 BRAVO Reader Version	10
2.6 INSTALL AID	11
2.7 Installation - manually operated by FTP	12
2.8 Licensing	14
Part 3 Variations for Calling I4SPOOL	15
3.1 Overview	15
3.2 Calling i4Spool directly	16
3.3 Automation options with the command I4SPOOL	17
3.4 Using the command AGSPLF	18
3.5 Fully automating calling using the OUTQmizer "i4OUTQ"	19
Part 4 The Command I4SPOOL	20
4.1 Overview	20
4.2 Restrictions	21
4.3 Detailed Command Description	22
4.4 Parameters	24
General Parameters	24
Parameters for E-Mail Information	26
i4Client Parameter	28
Encryption Parameter	29
Design Parameter	30
Other Parameter	31
Internal Parameter	32
4.5 Error Messages	33
4.6 Troubleshooting	34
Part 5 The E-Mail Feature	35
5.1 Configuration	35

5.2 Set-Up Program	36
Part 6 The Fax Transmission	38
6.1 Configuration	38
6.2 Settings with ESMTP and fax.xe-Configuration	39
6.3 Settings with ESMTP and email4fax.de-Configuration	40
Part 7 The Graphic Integration	41
7.1 The Description	41
Part 8 i4Client	45
8.1 i4Client - Convenience for Windows Applications	45
Index	0

1 Editorial/Introduction

1.1 Editorial



i4Spool Manual

Edition "07/2005"

This edition applies to the licensed program *i4Spool* Version 05.03 and to all subsequent releases and modifications until otherwise indicated in new editions. Make sure that you are using the latest edition for the level of this product.

This document contains material that is protected by international copyright, trademark and other intellectual property laws. Unless otherwise specified, this document is intended for your licensed use only as covered by the Goering iSeries Solutions User License. You may not modify, copy, reproduce, republish, upload, post, transmit or distribute in any way any material, including code and software, from this document.

Editor:

GOERING iSeries Solutions

Keplerweg 19
76646 Bruchsal
Germany

phone: +49 (0)7251-9895-12

fax: +49 (0)7251-9895-13

e-mail: info@goering.de

web: <http://www.goering.de>

© Copyright GOERING iSeries Solutions, 2005

We reserve the right to change this text.

1.2 Introduction

- The command I4SPOOL **converts AS/400 resp. iSeries spool-files** to the formats PDF, HTML, TIFF, which are all readable from PC and transmits them directly in the Integrated File System (IFS).
- The **integrated e-mail-functions** in I4SPOOL make the transfer of files created on the PC available to anyone on the intra- or internet.
- By using the free tool *i4Client*, **the produced tables can be loaded and viewed directly on the PC.**
- I4SPOOL offers **interfaces to Internet service providers**, who offer **e-mail-to fax bridge**. Therefore I4SPOOL can be used as an **fax solution** without the need for special hardware!

2 Installation/Licensing

2.1 Overview

This Chapter describes how to:

- [receive](#) *i4Spool* and its latest release from the internet.
- [install](#) *i4Spool* on your System.
- [update](#) *i4Spool* on your System
- [license](#) *i4Spool* on your System.

2.2 Downloading from the Internet

i4Spool can be downloaded from the internet address: <http://www.goering.de>

The file contains a compressed AS/400- resp. iSeries-Backup-File with all necessary objects for running *i4Spool*.

There are 3 possible ways to install *i4Spool*:

- a) Using the [BRAVO Reader](#) from Symtrax.
- b) Installation of the SAVF using the [INSTALL AID](#) from Bugbusters.
- c) Installation of the SAVF using [FTP](#)

We recommend option a) because the technical support by Symtrax is very professional by solving technical problems!

2.3 Preparations

1. Extract the (.zip) Download-File

If you do not already have a utility to unzip archived files, we recommend the application Winzip, which can be downloaded from the internet

<http://www.winzip.com>

After the extraction, you will have either (separate from the execution) the ASCII file I4SPOOL.BRV or (using the FTP variant) I4SPOOL.SAV

2. Verify that the FTP-Service on your AS/400 i.e. iSeries is active or start it.

Use the AS/400-command: STRTCPSVR SERVER(*FTP) to start the service

3. Update

If you want to update your existing *i4Spool* installation, please rename your current library I4SPOOL to I4SPOOLOLD.

Use the AS/400-command: RNMOBJ OBJ(I4SPOOL) OBJTYPE(*LIB)
NEWOBJ(I4SPOOLOLD)

The installation program recognizes this library and adopts all the settings from it.

2.4 Update Proceeding

1. Preparations:

If you want to load the latest release, please rename an already existing library **before the upload:**

I4SPOOL to I4SPOOLOLD

Please use the AS/400-command:

```
RNMOBJ OBJ(I4SPOOL) OBJTYPE(*LIB) NEWOBJ(I4SPOOLOLD)
```

That way the settings will be restored to the new version.

2. Installation:

Please carry the installation out, according to the desired method, as described in the following pages. We recommend for the Upload a free software from [bugbusters.net](http://www.bugbusters.net). This software can be download from <http://www.bugbusters.net>. The productname is "INSTALL AID".

3. Assumption of the settings

The setup program (call CALL I4SPSETUP) realize, that there is already installed an older version and offer the assumption of the settings with the function key **F10**.

2.5 BRAVO Reader Version

We recommend the utility BRAVO Reader. The installation is very easy and the technical support by Symtrax is very professional for solving technical problems!

The tool BRAVO Reader can be downloaded from our website <http://www.goering.de> or directly from Symtrax <http://www.eu.symtrax.com> (free download!)

After the installation of the BRAVO Reader on your PC, you have to open the file II4SPOOL.BRV.

Please fill out the dialog boxes as you normally would.

Please proceed to chapter on [Licensing](#).

2.6 INSTALL AID

To easily transfer *i4Spool* to your System AS/400, we also recommend using the tool INSTALL AID from Bugbusters.

The tool can be downloaded from the internet address <http://www.bugbusters.net> (free download!).

After the installation on your PC, you have to open the file I4SPOOL.SAV. Please fill out the dialog boxes with normal values.

Please proceed to the chapter on [Licensing](#).

2.7 Installation - manually operated by FTP

1. Create the backup-file on your System

Use the name I4SPOOL and the AS/400-command:
CRTSAVF FILE (QGPL / I4SPOOL) AUT(*ALL)

Open a DOS Window on your PC and change into the subdirectory which contains the ASCII file I4SPOOL.SAV ([see chapter Installation-Preparations](#)).

2. Sign on to your System AS/400 resp. iSeries.

*Note that the name "AS400" will be used for the name of your system AS/400 resp. iSeries and the color **blue** for all responding messages from the FTP.

```
FTP AS400
Connected with AS400
220-QTCP at AS400.FIRMA.DE
220 Connection will close if idle more than 5 minutes.
User (AS400: (none)): USER
331 Enter Password
Password PASSWORD
Note that neither the password will be shown nor the cursor will move during
entry.
230 USER logged on.
```

3. Change into the binary mode

```
FTP> binary
200 Representation type is binary IMAGE.
```

4. Change the naming format

```
FTP> quote site namefmt 1
250 Now using naming format "1".
```

5. Change to the library QGPL of your System AS/400 resp. iSeries

```
FTP> cd_/qsys.lib/qgpl.lib
250 "QSYS.LIB/QGPL.LIB is current library.
```

6. Start the transfer from PC to the AS/400 resp. iSeries

```
FTP> put I4SPOOL.SAV I4SPOOL.SAVF (replace)
200 PORT subcommand request successful.
150 Sending file to member I4SPOOL.SAV in file
I4SPOOL.SAVF
in library QGPL.
```

Note that the transfer time will take a few minutes.

```
250 File transfer completed successfully.  
FTP 123456789 Bytes sended in 98.76 seconds 54.321  
KB/Sec.
```

7. Terminate the FTP-Session on the System AS/400 resp. iSeries.

```
FTP> quit  
221 QUIT subcommand received.
```

8. Close the DOS command entry window.

The transfer to your System AS/400 resp. iSeries is complete.

9. Create the *i4Spool-Objects* on the System AS/400 resp. iSeries

using the AS/400-command: RSTLIB SAVLIB (I4SPOOL) DEV (*SAVF) SAVF (QGPL/I4SPOOLL)

Please proceed to the chapter on [Licensing](#).

2.8 Licensing

1. Add the library to your Library Searchlist in your Session

Use AS/400-command: ADDLIBLE I4SPOOL

Installation of *i4Spool* is now complete and, after entering the license key, ready for execution.

2. Call the licensing for *i4Spool*

Use the command: CALL I4SPCODE

3. Note the system specifications of your AS/400.

The *i4Spool* licensing display will indicate the

- a) Serial-No.,
- b) Model-No. and
- c) Processor-No.

of your AS/400 resp. iSeries. Please send these system information via e-mail to: info@goering.de

You will receive your *i4Spool* license key within 24 hours via e-mail.

The quickest solution for license code (to receive license in 30 minutes!) is to enter your system specifications at the download web page at <http://www.goering.de>

If you fail to enter the system specifications when downloading, you can revisit the page, enter the system information and select the button "Code Only".

4. Enter your *i4Spool* license key

Use the command : CALL I4SPCODE

Enter the license key and press the **Enter Key**, *i4Spool* is now ready to run. Please note that the program tolerates only three repeated attempts of false license keys entries per day. Further attempts will cause a deactivation of the *i4Spool* licensing for the rest of each day.

3 Variations for Calling I4SPOOL

3.1 Overview

This Chapter describes:

- [Calling I4SPOOL directly](#)
- [Automation options with the command I4SPOOL](#)
- [Using the command AGSPLF](#)
- [Fully automating calling using the OUTQmizer "i4OUTQ"](#)

3.2 Calling i4Spool directly

After entering the command I4SPOOL in the command line and pressing the **F4** key, you will come to the input screen for the parameters for *i4Spool*.

Pre-condition: the library I4SPOOL is in your library-list.

If the input of the required parameters and the values accordingly are known, it is possible to enter directly the complete command I4SPOOL with its parameter values in the command line and run it.

For easier handling of the spool files, we have added the command AGSPLF to the library I4SPOOL.

3.3 Automation options with the command I4SPOOL

By using the command I4SPOOL and the input of a correct syntax of all desired and needed parameter values, the complete command can be defined as a task call in any AS/400 application.

In this manner, an "untrained" user (a user without knowledge of the correct syntax) can produce and distribute Excel reports.

Another alternative for automation is to use the complete command (or even several commands) in CL programs or with time scheduled jobs.

With these functions, it is possible to generate and distribute continuously a fixed-defined PDF-list for certain intervals.

3.5 Fully automating calling using the OUTQmizer "i4OUTQ"

The product *i4OUTQ* (available as a separate product) allows with an intelligent control system the automatic calling of any commands. It has obvious benefits used in combination with *i4Spool*.

This tool is capable of separating pages from a large spool based on defined control templates as well as initializing single callings to *i4Spool*.

Therefore, you can produce a large number of individual e-mails from a list of confirmations and thus automatically work from this list.

If you are interested, please call us for this product, or feel free to evaluate *i4OUTQ* for yourself. *i4OUTQ* and all of our other products are available for a free 30 day evaluation at www.goering.us

4 The Command I4SPOOL

4.1 Overview

This Chapter describes:

- the [restrictions in the use of the command I4SPOOL](#).
- the [detailed command description](#), with all possible parameters.
- the [error messages](#)
- the [troubleshooting](#)
- the [configuration of the e-mail-feature](#)
- the [configuration of the fax transmission](#)
- the [description of the graphic integration](#)

4.2 Restrictions

I4SPOOL is subject to the following restrictions:

- A complete transfer to HTML is only possible with SCS spool-files.
- A complete transfer to PDF is only possible with SCS and AFPDS spool-files.
- IPDS spool-files can only be transferred in HTML and PDF; If they are unformatted. (i.e. fonts, barcodes, and other IPDS-properties) these settings will be lost.
Presently, we are working at an update for the support of IPDS. If you are interested, call us for information on our Beta Test program.
- A conversion to TIFF is only possible by AFPDS.
- The integration of logos is only possible with SCS/IPDS spool-files.

4.3 Detailed Command Description

Many different parameters are existing for the command I4SPOOL. They are divided into the following sections:

1. General Parameters

- Spooled file name: SPOOLFILE
- Job name, user, number: JOB
- Spooled file number: SPLNBR
- Spooled file Type: SPOOLTYPE
- To PC readable file: TOSTMF(TOFILE)
- PC file Type: STMFTY
- Workstation Customizing Object: WSCST

2. Parameters for E-Mail-Information

- To eMail-Adress: EMAILTO
- eMail Group: EGROUP
- Sender eMail Adress: EMAILFROM
- CC eMail Adress: EMAILCOPY
- eMail-Title: MAILTITLE
- eMail-Body: MAILBODY
- message: MESSAGE
- eMail-to-Fax: FAX
- eMail-Notification: NOTIFY
- Delete File after sending: KILLFILE

3. i4Client Parameter

- Start i4Client: I4CLIENT
- What to do: I4CACTION

4. Encryption Parameter

- File encryption: ENCRYPT
- User password for the file encryption: PWDUSER
- Master password for the file encryption: PWDMASTER
- Scheme of the file encryption: ENCRSCHEME

5. Design Parameter

- Style to use: STYLE
- Form Pitch: FORMPITCH
- Format of paper: PAPER
- Orientation: PAGORTN
- Size of the fonts: FONTSIZE
- Ext. SCS-identification: SCSPLUS
- First page: PAGEFROM
- Last page: PAGETO

6. Other Parameter

- Overwrite existing file: OVRWRT
- Delete spool after process: DLTSP
- Transfer Table: TFRTBL

7. Internal Parameter

- Version: VERSION
- Internal Usage: INTERNAL
- Pages when internal: PAGES

4.4 Parameters

4.4.1 General Parameters

SPOOLFILE

spooled file name: Specifies the name of the spooled file whose data records are to be converted.

JOB

Job name: Specifies the name or qualified name of the job that created the spooled file whose data records are to be converted.

User: Specifies the name of the user of the job that created the spooled file.

Number: The number of the job that created the spooled file.
Possible values: **000000-999999**

SPLNBR

*Spooled file
number:*

Specifies the number of the print file in the spool.
Possible values: **1-999999, *LAST, *ONLY**

SPOOLTYPE

Spooled file Type: Specifies the spool type. This parameter is very important because of the significant influence by the conversion process.
Possible types: ***SCS, *IPDS, *AFPDS.**

TOSTMF(TOFILE)

To PC readable file: Specifies the complete name and access path of the created output stream file, (in the desired PC-format) within the Integrated File System (IFS) of the AS/400. The output stream file receives the converted values. All subdirectories have to be specified. Non-existing subdirectories will not be created. Depending on the parameter OVRWRT existing output stream files will be overwritten. Otherwise, the output stream file will be created automatically.

The entry of this parameter is mandatory.

Sample: /home/goering/sample.pdf

Note: For detailed information about the format of file and path names see chapter 2 of the IBM manual „Control Language - CL" /Reference-No. SC41-5722.

STMFTYPE

PC file Type: Specified the Type of the output stream file. This parameter is very important because of the significant influence by the conversion process.

Possible types: *PDF, *HTML, *TIF, *TEXT.

WSCST

Workstation Name of a conversion Table to be used when convert
Customizing Object: AFPDS Spools to TIF or PDF

4.4.2 Parameters for E-Mail Information

EMAILTO

To eMail-Address: Specifies the complete receiver's e-mail address that the output file is to be sent to. If you want to send a group of addresses, please enter ***GROUP**.

EGROUP

eMail Group: Specifies the group name. All e-mail addresses, which are assigned in the file I4MUSP to this group, will received an e-mail.

EMAILFROM

Sender eMail Address: Specifies the name of the sender if the converted file is to be sent as an e-mail.
It is possible to use ***USRDFT** as a default value. In this case the sender-name from the file I4MUSP will be detected with the key USRPRF.

EMAILCOPY

CC eMail Address: Specifies the name of the carbon copy addressee (CC) of an e-mail.

Possible values:

***NONE** no copy will be produced.

***SENDER** the addressee receives a copy.

MAILTITLE

eMail-Title: Specifies the title of an e-mail.
Possible Value: ***FILE** the name of the Excel-file will be used.

MAILBODY

eMail-Body: Specifies the name of an e-mail body file. This is a member of the file I4MAILBODY, which you can edit with STRPDM or SEU.

MESSAGE

Message: The mailbody can include the two variables &1 and &2. Each with 80 characters of the 160 denoted characters in this parameter will be filled in these variables and appeared then in the message body.

FAX*eMail-to-Fax:*

Specification, if the special fax processing of *i4Spool* will be applied.

NOTIFY*eMail-Notification:*

Specification, if the addressee will request a notice of the receipt. As soon as the addressee opens the message, the sender will received a confirmation. This depends on the settings at the addressee, because a confirmation is partly undesired.

KILLFILE*Delete File**after sending:*

Specifies if the converted file, which was sent as an e-mail attachment, is to be deleted after its transmission.

Possible input values:

- *ALLWAYS:** (Defeat value) The converted file will be deleted after its transmission. The deletion will be executed even if its transmission is interrupted by the occurrence of an error.
- *IFSENDED:** The converted file will be deleted only after an error free completed transmission.
- *NO:** The transmitted file will not be deleted after its transmission.

4.4.3 i4Client Parameter

I4CLIENT

Start i4Client: This parameter controls the communication with the [free Windows Client „i4Client“](#). It can be used for starting a download in the temporary windows directory after the generation of the PC-file and opening the corresponding program.

Possible values:

***NONE** *i4Client* will not be used.

***LOCAL** it will be start a transmission from the local PC.

I4CACTION

What to do: The specification, which action ought to be run by *i4Client*. This action is always subsequent to the generation.

Possible values:

***VIEW** *i4Client* load and display the file on the PC.

***EDIT** ditto in the change mode

***PRINT** the printout will be carried out at the standard printer

4.4.4 Encryption Parameter

The PDF encryption parms can only be used, as long as the Security-Add-On from *i4Spool* ist installed (to be installed seperatly).

ENCRYPT

File encryption: Assigns wether the generated PDF-Document should be encrypted.

PWDUSER

User password: Password for the User

PWDMASTER

Master password: Password for the Owner/Master of the document. Only with this password document settings can be changed later.

ENCRSCHEME

Scheme for the file encryption: Assigns, which Scheme is to be used..
Refers to file I4SENP

4.4.5 Design Parameter

STYLE

Style to use:

Name of a Format Style to assign the placement of graphics, which are generated to the PDF file.

see also the chapter

["The Description of the Graphic Integration"](#)

FORMPITCH

Form Pitch:

To assign a form pitch when converting AFPDS-type spoolfiles.

This is sometimes needed, when the picture is appearing not in the right sizes.

Have a look to the File I4SFFP.

PAPER

Format of paper:

Specifies the paperformat.

Possible values: *A4, *LETTER and *FAX.

PAGORTN

Orientation:

Controls if the PDF output file should be generated

***PORTRAIT** or ***LANDSCAPE** format.

FONTSIZE

Controls the Font size.

SCSPLUS

i4Spool support the use of different CPI sizes within one SCS Spool file. Set this parm to *NO if you run into problems while converting SCS Spools.

PAGEFROM

Defines the page to start conversion on.

PAGETO

Defines the page where conversion should end.

4.4.6 Other Parameter

OVRWRT

Overwrite

existing file: Specifies if an output file, located in the same path, with the same name and extension will be overwritten. The contents of the output file will be deleted.

Possible Values:

- *YES:** The received output stream file, which is found under the described IFS path and the same name, ought to be overwritten.
The contents of the output stream file will be deleted before the conversion. The old contents of the output stream files can not be recovered if I4SPOOL ends due to errors during the conversion process.
- *NO:** An existing output stream file, which is found under the described IFS path and the same name, will not be overwritten or replaced, and the conversion will be terminated by sending an error message.

The specification of *YES or *NO is mandatory.

DLTSPL

Delete spool

after process:

Specifies whether the Spool file should be purged after processing.

Possible Values:

- *YES:** The file will be purged after processing.
- *NO:** The file remains in the OUTQ.

The specification of *YES or *NO is mandatory.

TFRTBL

Transfer Table:

For the conversion we use a Transfer Table from QUSRSYS. Usually this will be assigned automatically by *CHRID. Overwrite this parm if you need it for special purpose.

4.4.7 Internal Parameter

VERSION Specifies with version of *i4Spool* is used.

INTERNAL
Internal Usage: ***YES:** internal call by i4OUTQ

PAGES
Pages when internal: Only for internal usage with i4OUTQ.

4.5 Error Messages

ESCAPE - Messages

CPF9897 Abnormal program termination

STATUS - Messages

At present: none

4.6 Troubleshooting

If the I4SPOOL command terminates in an untimely fashion or if you receive different results than those you expect, try the following steps to identify the causes:

- Check the messages in your job log.
- Execute the command DSPJOBLOG .
- Press **F10** to display detailed messages.
- Review the produced messages at run time of I4SPOOL.
- Place the cursor on each message and press **F1**.
- Perform the necessary corrections suggested by the messages or follow the recommended heading.
- Verify if the current release of *i4Spool* is installed.

5 The E-Mail Feature

5.1 Configuration

A precursor for the e-mail-feature is a SMTP resp. ESMTP Server within your TCP/IP-Network. In case you are not sure, ask your network administrator.

Proceeding:

1. **Test the TCP/IP-address** from the **server** mentioned above.
2. Verify if, in the TCP/IP-definitions of your AS/400-System, a **host-table-entry for this IP-address is existing**:
 - by means of the command CFGTCP
 - Option 10 - Work with TCP/IP-Host-Table-Entry.

An entry for the
IP-Address is existing: Please make note of the name of the host.

No IP-Address is available: Create a new entry with the host name. This is not necessary if you have entered a DNS-Server [CFGTCP / 12]

Note: It is possible to work with the IP-Address and not with a name. Please look below for more information on using the IP address....

3. **Configuration of the DEFAULT settings** in *i4Spool* by means of the following commands:
 - ADDLIBLE I4SPOOL
 - CALL I4SPSETUP
4. Now you can start the [Set-Up-Program \(I4SPSETUP\)](#)

5.2 Set-Up Program interface

- Please enter in the field "**SMTP-Host**" the ascertained hostname. If you don't want to work with a name, please enter a "-" (minus) and then the IP-Address.
For example: -192.168.129.88
- It is possible, that you can enter a sender's e-mail address as the default in the field "**eMail Sender**".
It is not necessary to make an entry, but if you do so, it ought to be an e-mail address, which already has an account on your SMTP-Server.
Otherwise, most servers will deny the outgoing email. It is possible to deposit a correlating user <-> e-mail in the file I4MUSP, so it is not necessary to enter the address again for each send-transaction.
- Please maintain the file with UPDDTA I4MUSP or other well-known tools. So that *i4Spool* is using this file, the parameter "**e-mail Sender**" has to be set to *USRDFT .
- The sender's address is important for the authentication (dependant on the SMTP-Host).
If the address is not correct, the host will deny access!
Please note any corresponding error messages caused by using *i4Spool*.
- Some e-mail systems demand authentication via user and password (ESMTP). If your server has such a system, then you have to set **ESMTP = "Y"** and **enter** the "**user**" and the "**password**" **information encoded!**
Please contact us if you have need for coding via a small tool we offer.

```

                                i4Spool Configuration
                                Version 04.09

Language....: DE  DE, EN

SMTP-Host...: auth.mail.onlinehome.de_____

Defaults

eMail Sender: xyz@abc.de_____
eMail CC to.: *NONE_____
use ESMTP...: Y
ESMTP User..: meinkodierterUser_____
ESMTP Passw.: meinkodiertesPassw_____

Fax Setup

eMail Gatew.: MNOP@FAX.DE_____
eMail Sender: rstu@onlinehome.de_____
eMail CC to.: faxcopy@abc.de_____
FAX Type....: 2
Account.....: 123456_____ Password: einPassw_____

F3=CANCEL      F12=BACK

```

SMTP-Host	The e-mail hostname. If you don't want to work with a name, please enter a "-" (minus) and then the IP-Address. For example: -192.169.122.1
use ESMTP	Y - the server needs a login N - the server doesn't need a login.
ESMTP User	If ESTMP=Y, please insert here the user, coded in BASE64.
ESMTP Password	If ESTMP=Y, please insert here the password, coded in BASE64.
eMail Gateway	Address of the provider - who offers an eMail-2-FAX interface. For (2)fax.de, it is xetf@fax.de
eMail Sender	The address, which shall be used as eMail sender. Some provider requests a fix address.
eMail CC to	Optional, can also set to *NONE
Provider	Depends on the used provider: 2 = fax.de 3 = handywelt.at 4 = clickatell.com
Account	Account id from the provider
Password	Password to the account
APIid	This is an additional parameter only needed for clickatell.com

6 The Fax Transmission

6.1 Configuration

The settings for the fax operating are based on individual services and are highly dependant on the provider. According to the configuration type you have to enter different settings in the Set-Up Program:

[1. Settings with ESMTP and fax.xe-Configuration](#)

[2. Settings with ESMTP and email4fax.de-Configuration](#)

6.2 Settings with ESMTP and fax.xe-Configuration

```
                                i4Spool Configuration                Version 04.09

Language....: DE  DE, EN

SMTP-Host...: auth.mail.onlinehome.de__

Defaults

eMail Sender: xyz@abc.de_____
eMail CC to.: *NONE_____
use ESMTP...: Y
ESMTP User...: meinkodierterUser_____
ESMTP Passw.: meinkodiertesPassw_____

Fax Setup

eMail Gatew.: XETF@FAX.DE_____
eMail Sender: rstu@onlinehome.de_____
eMail CC to.: *SAME_____
FAX Type....: 2
Account.....: 123456_____          Password: einPassw_____

F3=CANCEL      F12=BACK
```

6.3 Settings with ESMTP and email4fax.de-Configuration

```
                                i4Spool Configuration                Version 04.09
Language....: DE  DE, EN
SMTP-Host...: auth.mail.onlinehome.de__
Defaults
eMail Sender: xyz@abc.de_____
eMail CC to.: *NONE_____
use ESMTP...: Y
ESMTP User...: meinkodierterUser_____
ESMTP Passw.: meinkodiertesPassw_____
Fax Setup
eMail Gatew.: MNOP@FAX.DE_____
eMail Sender: rstu@onlinehome.de_____
eMail CC to.: *SAME_____
FAX Type....: 1
Account.....: 123456_____ Password: einPassw_____
F3=CANCEL    F12=BACK
```

7 The Graphic Integration

7.1 The Description

- Your Logo in the PDF file

You can use graphics in JPEG or BMP format as logo. BMP should be used for usage with Fax.

1. JPEG-Files

Place logo file in JPEG-Format in any folder of your AS/400's IFS.

Remember that the space occupied in the PDF file is aprox. double the current file size of the JPEG File.

Therefore: The less bytes, the better.

In addition, please find out the dimension of the graphics file (width x height) in pixels.

2. BMP-Files

The BMP-File must be prepared in 1bit "color" (black/white).

The dimensions must be dividable by 8.

Use our free available Tool [i4Client](#) to upload the file:

- Start the setup-functionality of *i4Client* and choose tab "Graphic Import".
- There you assign the source file (i.e. C:\logo\sample.bmp) and the target (i.e. /logo/sample.i4s)
- The target file is generated in a special format, only usable with *i4Spool*. Please use always the filename extension "i4s".

3. The file "I4SLGP - I4SPOOL Layout - Graphic Files"

This file is a directory for all existing graphic files to use with *i4Spool*. The file can be maintained with the command CALL I4SPLOGO or with any other third party editor for physical files (we recommend the freeware WRKDBF)

- The "Graphic ID" can be assigned as you like, must not be the same name as the file
- At "Stream file" you identify where the graphic file is stored physically at the IFS
- Width, Height and color depth must be exact values from the graphic file

Sample:

```
LGIDNT      Graphic ID          LOGOECHT
LGSTMF      Stream file      /home/goering/logoecht.jpg
LGWDTH      Width          400
LGHGHT      Hight         382
LGBYTE      Bytes
LGDEPT      Color Depth    24 (24 or 8 bit when JPG, 1 bit when BMP)
LGTYPE      Graphic Type   (set this to "I" if this is a file uploaded by
i4Client)
```

4. The Layout of the graphic file with there positions

(x-, y- Coordinates, Hight and Width) will be assigned in the physcial file "I4SLPP" (I4SPOOL Layout - Positions).

The file can maintained with the command CALL I4SPLOGO or with any other third party editor for physical files.

Example:

```
LPNAME      Layout Name          DEMO
LPPAGS      From Page           1
LPPAGE      To Page             99999
LPIDNT      Graphics ID        LOGOECHT <--- aus I4SLGP
LPPOX       X-Pos               115   Pixels from left
LPPOY       Y-Pos               414   Pixels from bottom
LPWDTH      Width(Breite)       200   means a 50% Compression
           (because 200 is the half of 400, the original size)
LPHGHT      Height(Höhe)        191   means a 50% Compression
           (because 200 is the half of 382, the original size)
```

- The Pixel values are oriented from the bottom left.
 - i.e. LPPOX 1 means the very left position
 - LPPOY 1 means the bottom position

For Orientation to top/right just negate the values.

 - i.e. LPPOX -1 means the very right position
 - LPPOY -1 means the top position

- To center a graphic use the special value "0" (zero):
 - i.e. LPPOX 0 means horizontal centered
 - LPPOY 0 means vertical centered

5. Layout-Assignment (STYLE) together with the command I4SPOOL

Example:

```
Convert iSeries-Spool to PDF (I4SPOOL)

Spooled file name . . . . . > CRTAGPGM      Name
Job name . . . . . > CRTAGPGM      Name, *
  User . . . . . >   GOERING      Name
  Number . . . . . >   088737      000000-999999
Spooled file number . . . . . > 000001      1-9999, *LAST, *ONLY
Spooled file TYPE . . . . . > *SCS      *SCS, *IPDS, *AFPDS
To PC readable file . . . . . > '/CRTAGPGM.PDF'

PC file TYPE . . . . . > *PDF      *PDF, *TIF, *HTML
Style to use . . . . . > DEMO      Name, *NONE
Start i4Client . . . . . > *NONE
To eMail-Adress . . . . . > *NONE
```

8 i4Client

8.1 i4Client - Convenience for Windows Applications

For Windows users, we offer a **free add-on: *i4Client***.

It is an easy-to-use client for direct communication with *i4Spool*, as well as to facilitate automatic file-transfer by FTP, and immediate display of the PDF-file.

The client is free and available from the internet address <http://www.goering.us>

Details for configuring *i4Client* are in the manual, also available at our website <http://www.goering.us>