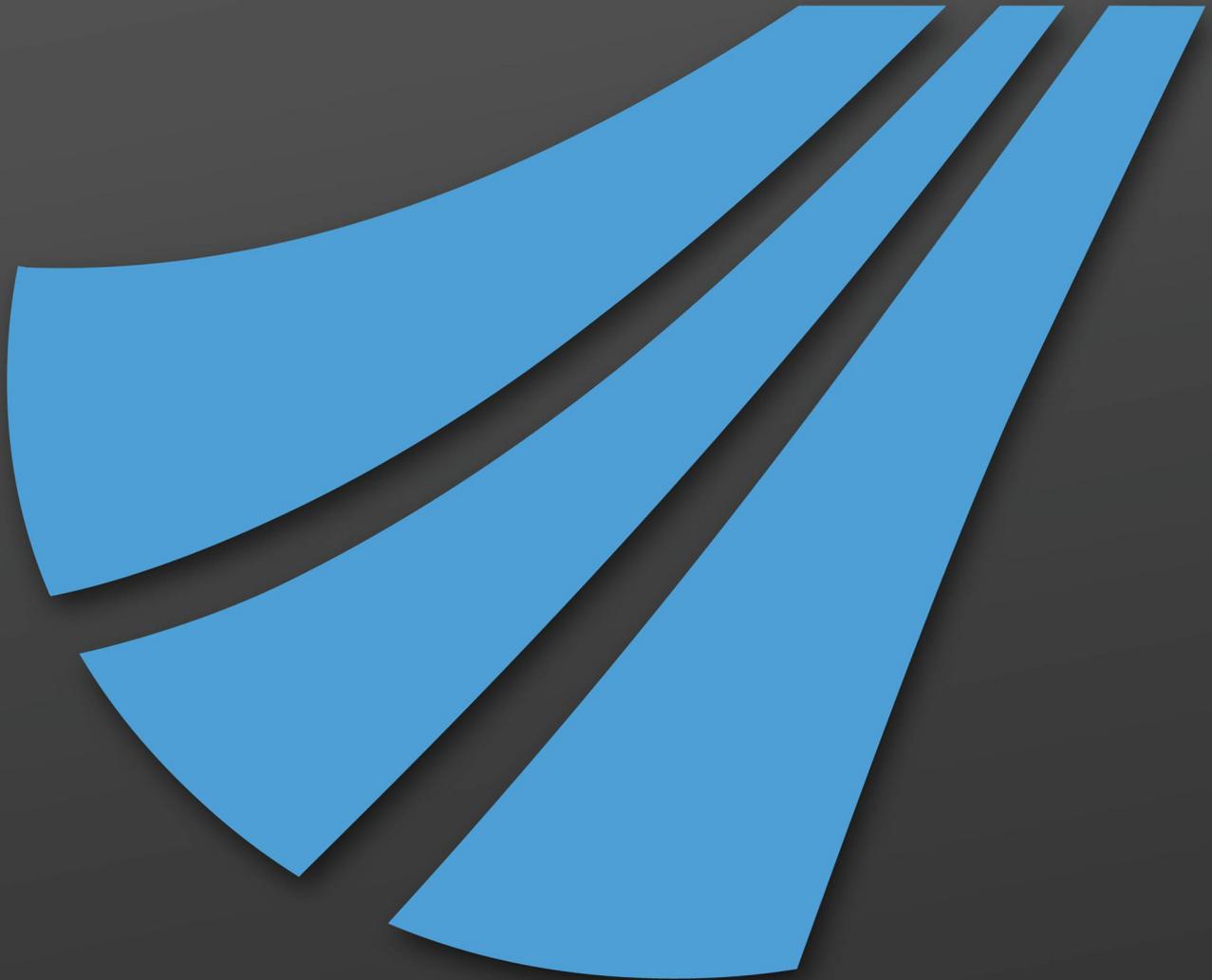


Quick Installation Guide



ArtForm400™
**eForms & Intelligent Document Management
for System i, i5, iSeries & AS/400**

www.interform400.com

InterForm A/S
Hyldalvej 11
DK-9541 Suldrup
Denmark

tel: +45 98 37 80 17
fax: +45 98 37 87 99
e-mail: support@interform400.com
sales@interform400.com

web: www.ArtForm400.com

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Getting Started

The idea of the following procedure is to give you a safe and easy start on the ArtForm400™ system. No knowledge on ArtForm400™ is required, and only minor OS/400 knowledge is needed.

The final result of the following will print a sample spool entry with a predefined overlay by means of the Auto Forms Control (AFC) system, which is an essential part of the ArtForm400™ system. The result will be printed on a PCL printer of your own choice.

iASP installation

If you install or upgrade ArtForm400 on a system that is running iASP you need to read this:

ArtForm400 can only be installed on **one ASP**. This ASP must be varied on for both upgrading and installing.

Installation will insert a **symbolic link** like this, where 'aspdev' is the ASP device:
ADDLNK OBJ('/aspdev/APF3812Home') NEWLNK('/APF3812Home')

The libraries used by ArtForm400 will all **automatically** be created in the same ASP as the APF3812 library:

APFIMPORT (Library used during import)
APFEXPORT (Library used during export)
APFIMPDEST (temporary library used during import)
APFEXPDEST (temporary library used during export)
APFPFnnnn (Libraries containing installed PTFs - number nnnn).

During a **first time install** you are prompted for which ASP you want to install on:

```
INS0103                ArtForm 400 version 2009.M01                INTER03

This is the first time ArtForm 400 is installed on this system.

Press Enter to continue.

Install to ASP device . . . :  *SYSASP          *SYSASP, ASP device

F3=Exit  F12=Cancel
```

For future upgrades the same ASP will be used. If you install ArtForm400 into another ASP than the system ASP, then you must go into ArtForm400 configuration (after the install) and make sure that the job queues and subsystem descriptions are placed in a library inside the system asp.

👉 **NOTE** 👈

Commitment control is used in ArtForm400 when you rename fonts in ArtForm400 via option '7=Assign new font number' in the font menu. This is the only function in ArtForm400 using commitment control. This is important to notice if you are running an iASP installation: The ASP group must be set prior to font renumbering.

👉 **NOTE** 👈

If you are running iASP and there is an abnormal end for the Auto_Form jobs, you can risk that there are spooled files, that are partially created in the output queue APF3812/APFSYS. This will not influence the functions of ArtForm400.

1. Preparation

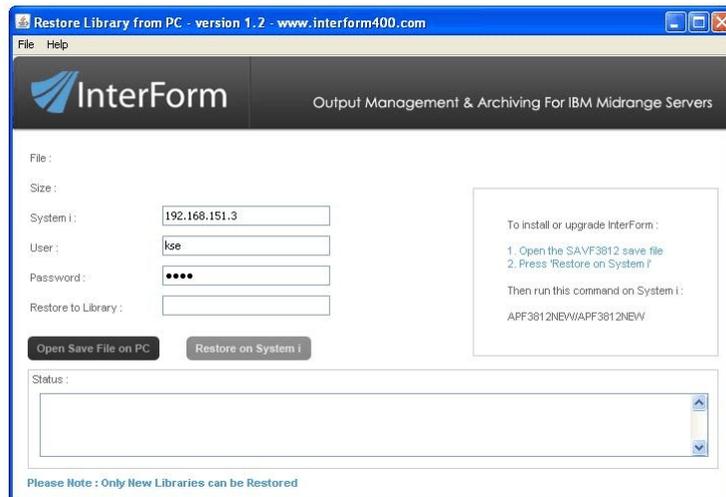
1. Make sure your OS/400 level is **at least Version 5 release 3** or newer. (Refer to the ArtForm400 manual for other **System Requirements**)
2. Make sure you have **QSECOFR** rights on the System i, or similar with **USER CLASS *SECOFR** authority. The user profile used for the install must at least have *ALLOBJ, *SECADM and *SPLCTL authorities in order to be able to do the install.
3. Make sure you have a PCL4 or PCL5 compatible printer attached either through a LAN (SNA APPC, TCP/IP LPD, Raw Socket (port 9100) or TN5250E) or Twinax (direct or through a Terminal or a PC emulator card). Any PCL5 Printer configured to use IBM Host Print Transform can be used. Refer to the ArtForm400 manual for detailed information on attaching printers.
4. Note that Laser printers with IPDS as the only language can not be used. Normally you can define an additional printer device (type 3812) to point to the same physical IPDS printer in order to print from ArtForm400.

2. Installation

Installation/upgrade without a CD

If you do not have access to the CD drive of your System i or if the CD drive e.g. is not working then you can install or upgrade ArtForm400 without using the CD on the System i:

The easiest way to upload and restore the library is to use a small java program which you can run on your PC (called from a .bat file). On the ArtForm400 CD you can find two files called RSTLIBPC.jar and RSTLIBPC.bat. In order to start uploading you can double click on the RSTLIBPC.bat file. This will start up a DOS window and this window will then appear:



In the screen above you enter the System i identification i.e. IP-address or server name and a user ID and password used for signing on to the System i. Type the library APF3812NEW as this is where you want to restore to and select the save file to upload (called SAVF3812).

When the upload is done you can start the real upgrade with the command APF3812NEW/APF3812NEW and continue like below as if you were installing from a CD - leaving out the LODRUN in the beginning.

Alternative install without CD (via FTP)

If you are unable to run the java program you can manually FTP the save file and install via this. Here is how to do that:

1. First **create a save file** on the System i onto which you will upload the save file. You can e.g. create it in qgpl with this command: CRTSAVF QGPL/SAVF3812
2. Next **upload the save file** SAVF3812 (e.g. found on the CD) e.g. via FTP onto the save file (here we imagine the SAVF3812 file is placed in C:\temp and is to be uploaded to qgpl/savf3812:
 - a. Open a **DOS** session on your PC
 - b. Type **ftp** followed by the ip address of your System i and press Enter, type your user profile and password when prompted
 - c. Type **lcd c:\temp** (or wherever you have placed the SAVF3812 file
 - d. Type **cd qgpl** to temporarily place the save file in the qgpl library
 - e. Type **bin** to change to binary transfer
 - f. Transfer the file with the command: **put SAVF3812**
 - g. Type **quit** to exit the ftp session.
3. Now **restore the apf3812new library** from the save file QGPL/SAVF3812 (this save file in this example) with the command:
RSTLIB SAVLIB(APF3812NEW) DEV(*SAVF) SAVF(QGPL/SAVF3812)
4. Now you can **delete the temporary save file**:

DLTF FILE(QGPL/SAVF3812)

4. **Start the upgrade or install** via the command:
APF3812NEW/APF3812NEW
5. **Skip the LODRUN instruction below** but otherwise the rest of the installation procedure is the same:

😊 **TIP** 😊

If you have a very limited bandwidth you can also consider to upload a zip file with the save file within onto the System i and then unzip the file directly on the System i (with `apf3812/unzip`) before you copy the SAVF3812 file into a save file (The save file must be created before) with the command:

```
CPYFRMSTMF FROMSTMF('/padata/savf3812')  
TOMBR('/qsys.lib/qgpl.lib/savf3812.file') MBROPT(*REPLACE)  
CVTDTA(*NONE)
```

(Here we copy the file `savf3812` in the IFS directory `padata` into a save file with the same name in library `qgpl`).

Installing from a CD

Now you are ready to install the ArtForm400™ system from a CD-ROM.

1. Insert the CD into the CD-ROM drive of your System i.
2. Enter the following CL command on a command line to install:

```
LODRUN DEV(Device)
```

Where Device is the name of the Device containing the media. (If you are using the systems default CD-ROM drive you can use *OPT instead of the Device-parameter.)

3. You are now prompted to choose your preferred language for the installation:

Note: If the installation detects an existing version of ArtForm400™ on your system you will, at this point, get prompted to selected installation method.

```
ArtForm 400 version 2009.M01                INTER03  
  
DE: Wählen Sie bitte eine Sprache aus, während verwendet zu werden installieren  
Eingabetaste --> Weiter  
  
DK: Vælg sprog for instruktioner under denne installation.  
Tryk på Enter for at fortsætte.  
  
ES: Seleccione por favor un lenguaje para ser utilizado durante instalán.  
Pulse Intro para continuar.  
  
FR: Veuillez choisir la langue à utiliser pendant l'installation.  
Appuyez sur ENTREE pour continuer.  
  
GB: Please select a language to be used during install.  
Press Enter to continue.  
  
PT: Favor selecionar uma língua a ser usada durante a instalação.  
Aperte Enter para continuar.  
  
GB DE=Deutsch, DK=Dansk, ES=Espanöoles, FR=Français, GB=English, PT=Português  
F3=Exit   F12=Cancel
```

- Confirm on the next screen (with Enter), that you are installing ArtForm400 and specify the ASP device to use if you are running iASP. The screen after that requires you to enter a valid licence type, in order to allow the installation to proceed. You can also leave it blank and fill it out later.

```

INS0103                ArtForm 400 version 2009.M01                INTER03

This is the first time ArtForm 400 is installed on this system.

Press Enter to continue.

Install to ASP device . . . :  *SYSASP          *SYSASP, ASP device

F3=Exit  F12=Cancel

```

Refer to page [6](#) for additional information if you are running iASP.

```

Work with licence information                LIC350D

  ArtForm 400 version . . : 2009.M01
  Model / Feature . . . . : 270 22A2
  Serial number . . . . . : 65BD1BB
  Operating system . . . . : V5R3M000

Type options, press Enter.
  2=Change 5=Display

Opt  License code
-   Production key           Not applied
-   Test key                 Not applied
-   Mirroring key-1         Not applied
-   Mirroring key-2         Not applied

F3=Exit                F12=Cancel=Cancel

```

- In the following screen you can set the preferred language used in ArtForm400. The language can be changed later if needed. This is done by option 2 at the *Administration menu* to change the global settings for ArtForm400™ or use option 4 to select language for specific ArtForm400™ users.

Note: ArtForm400™ CL commands like MRGSPLFPDF, APF3812 etc. will be installed in the language chosen here, and can not be changed unless a re-installation is made.

```

INS0121                ArtForm 400 version 2009.M01                INTER01

Select primary language, press Enter.

Primary language . . . . . GB  DE=Deutsch, DK=Dansk, ES=Espanoles,
                               FR=Français, GB=English, PT=Português

Primary language is used for:
1. The language of commands.
2. The language of displays.

Notice:
Language of commands can only be selected during install.
Primary language can be changed at the administration menu option 2.

F3=Exit  F12=Cancel

```

6. **If you are unsure, you should leave the default values. Refer to page ? for more information on journaling.**

```

INS0122                ArtForm 400 version 2009.M01                INTER01

Select journal, press Enter.

Journal . . . . . APFJRN__
Library . . . . . APF3812__

If a journal is selected, changes are recorded to a journal receiver.

It is recommend to use the journal APFJRN in library APF3812.
This journal will be created during install, if used.

If you select a journal in a other library this journal must already exist.

F3=Exit

```

7. **The installation guide now gives you an overview of parameters you have chosen, for the installation of ArtForm400™. Press F10 to start installation. Note that Status messages will be shown at the bottom of the screen during installation.**

Start installation with selected options.

```
Device . . . . . : OPT01
  Category . . . . . : *OPT
ASP device . . . . . : *SYSASP
License type . . . . . : *Demo
Licensed modules . . . . . : *Classic, *PDF-Security, *InterWord

Primary language . . . . . GB
Journal . . . . . APFJRN
  Library . . . . . APF3812
```

Press F10 to install.

F3=Exit F10=Start installation F12=Cancel

8. Press F10 to complete the installation.

3. Setting Up the System

The system is now ready for setting up administrators, file-sets, print queues and printers.

Enter the ArtForm400™ menus:

```
APF3812/APFMENU
```

When entering ArtForm400™ for the first time, you will be asked to appoint an administrator. Enter option **80. Administration Menu** and go through the menu points 1 - 6, as follows:

1. Enter **1. Appoint Administrator** to appoint an administrator of ArtForm400™, (e.g. QSECOFR). It is recommend to allow access to ALL until the system enters production.
2. Enter **2. Configure ArtForm 400.**
3. Type in a default output queue. Select printer type according to the supported HP PCL emulation of your printer. (It is recommended to select **HP4 or HP4D** (D for duplex) in order to have support for all fonts used in the overlay sample).

Enter Y/N (Yes/No) whether you want to "**Allow Users to override default printer type**". Answer '**Y**' if in doubt.

```
Configure ArtForm 400                                APF101D
                                                    1/13
Specify default output queue for users with no individual output queue.
Users may override value when using the system.

Output queue . . . . PRT01
Library . . . . . QUSRSYS

Specify default printer type

Printer type . . . HP4      (IBM4019 IBM4029 IBM4039 HP4 HP4D HP4_PJL
                             HP4D_PJL HP5C HP4500 HP4500D
                             ZEBRA203 ZEBRA300)

Allow users to override default printer type ?      Y (Y N)

F3=Exit                                           F12=Cancel
```

When you press Enter you are presented with the screen below. Here you decide what form type to use as default (use ***STD** if in doubt), the paper size, and whether or not the ArtForm400 users are allowed to override the paper size on overlays.

Specify default form type for the ArtForm 400 system.

Users may override value when using the system.

Form type ***STD** _____

Select paper size	4	1 = LETTER	5 = COM-10	A = LEDGER
		2 = LEGAL	6 = MONARCH	B = A3
		3 = EXECUTIVE	7 = C5	C = A5
		4 = A4	8 = DL	

Do you want to define paper size on the individual overlays **Y** (Y N)

F3=Exit

F12=Cancel

Leave the macro offset value at "0". Refer to page ? for additional info

Number to be added to the macro numbers the system works with . . . 0

The reason to add a number can be, that printers are equipped with flash-simm cards, that does not correspond to the HP standard saying, that a macro in the printers internal memory should be selected, even if it has the same number as a macro in the flash-simm.

F3=Exit

F12=Cancel

If you do not intend to exchange overlays between a number of ArtForm400™ installations, you can answer N to using DDM.

Do you want to use DDM to ArtForm files on other AS/400

Use DDM **Y** (Y N)

F3=Exit

F12=Cancel

Enter the **IP-address or Network name/NetServer Name** of the System i you work on. This name can be found with the command APF3812/DSPNETSVRA, or can be found under "other computers" on your System i Access connected Windows PC. This option is used in relation to the PCL viewer and the DDM features. If you are in doubt you can also specify the IP address of the System i - without surrounding ".

Sharename can be used for situations, where you do not want to share the complete APF3812Home (In ArtForm400 it used mainly for the possibility of a graphical view). If you instead have shared the APF3812Home/VIEW directory you can state the sharename here. Note, that you need to add the share before ArtForm400 will accept this sharename. Use e.g. the command: APF3812/ADDFILSHR to share a directory.

Public authorisation: When you view a merge graphically a temporary file is created in /APF3812Home/VIEW. You can restrict access to this file, so that the public authority is *EXCLUDE. Then only the file creator and users profiles with authority *ALLOBJ have access to the file.

Install SwiftView at drive: If your users want to install Swiftview in another drive than the usual C-drive you can state a different drive name here. This is for all users.

👉 **NOTE** 👉

The change of PUBLIC authority of the files in /APF3812Home/VIEW is only used when creating new files (not when replacing existing). To use the new authorisation delete the files in /APF3812Home/VIEW, that holds the names of your end users. Do not delete the file SVIEW.EXE.

```
Configure ArtForm 400                                APF101D
                                                    5/13

The Name that is used for this AS/400
under "Other computers" on PC's.

Networkname . . . . . 222.2.1.247__
Sharename. . . . .  APF3812HOME_

Public authorisation to files that are created in the /APF3812Home/VIEW directory.

                                0  0=*EXCLUDE
                                1  1=*ALL

Install SwiftView at drive

                                C  A - Z

F3=Exit                                F12=Cancel
```

The selection of **Primary language** for operating ArtForm400™ was chosen during the installation of ArtForm400™. It can be altered here if needed.

```
Configure ArtForm 400                                APF101D
                                                    6/13

Select primary language.

Language code . . . . .  GB

DE=Deutsch, DK=Dansk, ES=Espanoles, FR=Français, GB=English, PT=Português

F3=Exit                                F12=Cancel
```

If you want Auto Forms Control to monitor output queues with printers attached, you now have the option to state which form type to print from the shared output queues. State **N** for not using the program, APF3812/STRWTRCHK program if in doubt.

Do you want to use the APF3812/STRWTRCHK program as validity checking program for the STRPRTWTR and STRRMTWTR commands, to avoid a writer to be started with FORMTYPE(*ALL) on one of the output queues defined in Auto-Forms-Control, and if yes, what formtype has to replace *ALL when a writer is started on one of these output queues.

Use APF3812/STRWTRCHK as a validity checker N (Y N)

Formtype to replace *ALL _____

This option is especially usefull, if you are using the same output queue for both input to AFC-functions and for output to a printer, as a writer never should be started with FORMTYPE(*ALL) on souch an output queue.

F3=Exit

F12=Cancel

On the final screen of the configuration you setup if you want to use unicode spooled files with ArtForm400. If you state 'Y' unicode options will be visible and the USRDFNOPT field of spooled files to be merged will be inspected: If the value '*IF-UCS2*' is found the spooled file is considered to be unicode. Refer to the ArtForm400 manual for details.

Do you want to be able to use UCS2 (unicode) in your spooled files.

Use UCS2 **Y** (Y N)

F3=Exit

F12=Cancel

The next screen display the subsystem used for Auto Forms Control. If you prefer you can use a different name and/or library.

Auto Forms Control subsystem

```
Subsystem description . . . AUTO_FORM_
Library . . . . . APF3812__
```

F3=Exit

F12=Cancel

Just like for the AUTO_FORM subsystem above ArtForm400 will ask if you want to change the other subsystems on the next screens:

Output Schedule Control	Default subsystem: APF3812/OSCCTL
Email recovery	Default subsystem: APF3812/MAILINTER
Card reader terminal	Default subsystem: APF3812/TERMINTER

It is very easy to change the subsystem: You just type the new name and library above. If the subsystem does not exist ArtForm400 will suggest to copy and/or update a few necessary objects:

```

                Create AFC subsystem description

Subsystem description . . . AUTO_FORM3
Library . . . . . KSE

Press Enter to create the subsystem description or
press F3 or F12 to cancel.

Note:
The following objects will also be created or updated in
the subsystem library:

Object      Type      Description
AUTO_FORM  *JOBQ   Auto Forms Control job queue
AUTO_FORM  *CLS    Auto Forms Control class
AUTO_FORM  *JOB    Auto Forms Control job description
AFCSTART   *JOB    Auto Forms Control startup job description

F3=Exit                F12=Cancel
```

Check page ? to see the authority requirements for the Auto_Form Jobd used.

! IMPORTANT !

If you chose to change the subsystem name or library then remember to change your start up IPL program to start the new sub system(s)!

(The Card reader terminal is used for the Digital signature/PDF Security module only).

4. Enter **4. Work with ArtForm400 users**. Press F6 to enter your **System i** user ID. Later you can add additional users which will have access to configure and/or define overlays and merge-definitions in ArtForm400™.

5. Enter **5. Work with file sets**. Press F6 to create an overlay file set called e.g. TEST (select 1=Black/White Laser for Printer Class). This file set is referred in the Getting Familiar with Overlays section in the ArtForm400 manual. Later you can add file sets for different purposes or for specific users.
6. Enter **6. Connect users with overlay file sets**. Connect your user profile to file set SAMPLE and the file set you created in the previous step.
7. Start subsystem AUTO_FORM: From the Select **5. Work with Auto Forms Control** from the ArtForm400 Main Menu followed by option **10. Start AUTO_FORM subsystem**.

You can now proceed to install and setup the PCL/PDF-viewer (please refer to page [19](#) for further information) and the graphical designer (refer to page [23](#) for more information).

Appendix L - PDF and PCL Viewing

The PCL Viewer SwiftView included with ArtForm400™ will view PCL spool files with data type *ASCII containing PCL4, PCL5 and PCL5e data. This is a true WYSIWYG feature, which is unique for verifying results of forms design, and to view the contents of spool files in the System i output queues, that has been merged with ArtForm400™ overlays.

NOTE

For easy design of your overlays you can also install a graphical designer on your PC. Refer to page 23 for more details.

NOTE

In order to get PDF output you need to purchase the PDF module for ArtForm400.

PDF viewing:

If you have Acrobat Reader (or another PDF file viewer) installed on your PC you can also choose to use this program to view the PDF result of a merge. This requires:

1. That this program (e.g. Acrobat Reader) is associated with the extension **.PDF** on the PC. (Try to double click on a PDF file on your PC. It should open up the PDF file viewer and display the file).
2. That the PC can 'reach' the /apf3812Home/view directory on the System i - follow the steps as indicated for PCL viewing.
3. That the Netserver is running and the name is registered as described for PCL viewing below.

PCL viewing:

SwiftView exploits the iSeries Access connection to a Windows PC, and is currently integrated with the menus **1. Design Overlay**, and **10. Work with actual output queue**.

The command for **10. Work with actual output queue** is:

```
APF3812/APFWRKOUTQ
```

If you use option 5 to display a merged PCL spooled file on this APFWRKOUTQ command the spooled file will be shown in Swiftview.

SwiftView licenses:

WARNING

When ArtForm400™ is running in test mode you can setup an unlimited number of users to use SwiftView. 1 SwiftView license is included with ArtForm400™ free of charge. Additional licenses can be ordered from your local ArtForm400™ dealer. The minimum licenses to order is 5. You will receive the license in form of a code, which matches the serial number of your System i. Refer to page ? for more information on ordering and entering license code.

Requirements for running SwiftView:

1. You must connect to the System i via TCP/IP from a Windows PC with iSeries Access or other 5250 emulator supporting both STRPCO and the STRPCCMD commands.
2. The user must have full authorisation over the directory:

\\system\APF3812Home\VIEW. You can grant these rights with the command:

```
CHGAUT OBJ('/apf3812home/view') USER(*PUBLIC) DTAUT(*RWX)
OBJAUT(*ALL)
```

3. The system name defined in the ArtForm400™ administration menu **2. Configure ArtForm 400** (see page [14](#)), must correspond to the system name shown with the command APF3812/DSPNETSVRA or use the IP-address of the System i.
4. Port number 445 must be open in any firewall the PC may access the iSeries through.

Setting up a SwiftView user.

1. Use option 60. Install SwiftView at drive C:, located in 12. Service Functions, to create a directory on the users PC's C drive called C:\APF3812, and copy the program **SVIEW.EXE** from the directory \\system\APF3812Home\VIEW into this directory on the PC. Notice that the (C:) -Drive is configurable.
2. If ArtForm400™ is running in test mode, **F14** in menu **1. Design overlays** and option **5=display** in menu **10. Work with actual output queue** will now activate PCL viewing.

If ArtForm400™ is running in production mode, you will only have permission to one license. If a code is installed for activating more SwiftView licenses, the user profiles activating the viewer will automatically be assigned to the group of users for access to SwiftView (The administration menu point **51. Swiftview users**).

If all licenses are already occupied, every new user will be informed about this, when trying to activate the viewer. In this case, either order the needed number of SwiftView licenses, or replace an existing user profile in menu **51. SwiftView users**, with the user profile that needs access to PCL viewing.

Setting up iSeries Access Express, enabling PCL-viewing

1. Use the command:

```
APF3812/DSPNETSVRA
```

- to display the NetServer Name and Domain of the System i. The Netserver name is the name, that you could use for your System i when configuring iSeries Access Express - you can also use the IP-Address instead.

WARNING

The NetServer Name should not be the same as the System i System name. The system name can be displayed with the command, DSPNETA. If the names are identical you could change the Netserver name with the command, APF3812/CHGNETSVRA.

3. Start the NetServer with the command:

```
APF3812/STRNETSVR
```

4. The person that should be able to view, must have full authorisation over the directory: \\system\apf3812Home\view. You can grant these rights with the command:
CHGAUT OBJ('/apf3812home/view') USER(*PUBLIC) DTAUT(*RWX)
OBJAUT(*ALL)

NOTE

When viewing graphically (PCL or PDF) a file will be created in the APF3812Home/VIEW directory, that others can access/view. To avoid that you can specify, that the PUBLIC authority of these temporary files should be *EXCLUDE. Refer to page [15](#) for more information.

5. Create a new System i connection in iSeries Access stating the new System i server name.
6. Start up a new session and change the new network name to Qxxxxxxx under option 2. Setup default output queue and printer type, in 80. Administration Menu.
7. If you are running iSeries Access Express, you should also make sure to start the Netserver on the System i. This can be done with the command: STRHOSTSVR SERVER(*ALL). You should also make sure to use the **System i** system name (on the PC and in ArtForm400™, that you can find using the Explorer and opening the **Other Computers** folder.
8. Boot your PC and connect to the new server name Qsxxxxxxx via the Operations navigator.
9. If you are running Window95/98 is it necessary to have to same User-ID and password on the PC as on the System i.

TIP

You can choose to map a Network drive to APF3812Home from Explorer on your PC: Choose 'Tools' and 'Map Network drive..' and '\\<IP-Address of System>\APF3812Home' as the directory. This is helpful later when moving resources to/from the shared /APF3812Home/Work directory.

When configuring Netserver and share these commands could be very helpful:
(All are placed in library, APF3812)

NetServer commands:

DSPNETSVRA	Display NetServer Attributes
CHGNETSVRA	Change NetServer Attributes
STRNETSVR	Start NetServer
ENDNETSVR	End NetServer

NetServer share commands:

ADDFILSHR	Add NetServer File Share
ADDPRTSHR	Add NetServer Printer Share
RMVNETSHR	Remove NetServer Share

Troubleshooting problems using SwiftView:

If you receive an error when starting up SwiftView (using e.g. F14), you might get some help here.

When using the full iSeries Access the System i name used on the PC can be found, by choosing Start, Programs, IBM iSeries Access, Connections. Additional information for iSeries Access Express can be found below.

Problem: When pressing F14 from the design screen a DOS window opens and shuts very quickly.

Solution: Install SwiftView as described above in the first paragraph of Setting up a SwiftView user. Make sure, that the APF3812 directory is created at the C-drive of the PC AND that the file SVIEW.EXE has been copied to that directory. If the directory and file has not been copied make sure, that you are authorized to the /APF3812Home/VIEW directory (see requirement 5), and that the System i name in ArtForm400™ is the same as used on the PC (see requirement 5) and then try installing SwiftView again.

Problem: When starting up SwiftView, you get a small window with the message: **Unusual**

file access failure, check NDGDEBUG \\systemi\APF3812Home\VIEW\user.

Solution: Make sure, that the AS400 system name set up in ArtForm400™ is the same as used on the PC (see requirement 5 above). If the System i is not found on the same network and not on the DNS server, you might need to add the System i to the HOSTS file on the PC like described below.

Problem: When starting up SwiftView, you get a small window with the message:

Access to the file is not permitted \\systemi\APF3812Home\VIEW\user.

Solution: You are not authorized to the APF3812Home/VIEW directory. Do as described in requirement 3 as above. You will also get this error message if your User ID and password on the PC does not fit with the User ID and password of the System i.

Problem: When trying to access APF3812Home through a mapped network drive on the PC and you get this error message:

'An error occurred while connecting <Drive>: to \\<ServerName>\APF3812Home.

Microsoft Windows Network: The local device name is already in use.

This connection cannot be restored.'

Solution: Use the same User ID and password on both the PC and System i or map a network drive to /APF3812Home using the System i user ID and password (possible in Windows XP).

Problem: The PC cannot 'see' the System i NetServer Name through a search of the Network Neighbourhood and can because of that not access /APF3812Home.

Solution: Make sure, that the NetServer is started on the System i and you are using the NetServer name - not the System Name of the System i (APF3812/DSPNETSVRA). If the System i is placed in another Network it might be necessary to add the System i NetServer name to the HOSTS file on the PC. You can also just use the IP address as the Netserver name in ArtForm400 configuration.

Appendix O - Graphical Designer: Install and use

From ArtForm400™ an unlimited number of graphical designers can be installed. Below is a description of the requirements and how to install and use the designer.

Requirements for the Graphical Designer

Requirements for the System i:

- Select option '75. Prepare server to support Designer' on the **Service menu** to start all necessary servers. This option checks if these services are active (and checks if journaling is active) and then starts journaling/servers if necessary:

```
STRTCPSVR SERVER(*DDM)
STRTCPSVR SERVER(*DTAQ *RMTCMD *SIGNON *SVRMAP)
```

- Journaling of ArtForm400™ files must be started.
- Execute the command: DSPNETA. Find the text/parameter 'DDM request access'. This should normally be *OBJAUT, it can also refer to a user program, but if it is *REJECT the DDM server will not work. Change the value if necessary with the command:

```
CHGNETA DDMACC(*OBJAUT)
```

Requirements for the PC:

- The PC must be running Windows 98 or newer.
- The PC must be connected to the System i via TCP/IP
- Minimum 128 Mb RAM is required.
- JAVA Runtime Environment version 6 or later must be installed.
- A minimum screen resolution of 1024x768 pixels is required.
- The ArtForm400® graphical designer must be installed.

Requirements for the network:

If you access the iSeries through a firewall, be sure that these port numbers are not blocked:

Host Server	Port number
*CENTRAL	8470
*DATABASE	8471
*DTAQ	8472
*FILE	8473
*RMTCMD	8475
*SIGNON	8476
*SVRMAP	449

TCP-server	Port number
*DDM	446

Apart from that this port number must be open in order for to be able to activate Swiftview:

Service	Port number
Microsoft-DS	445

Limitations of the Graphical Designer

- **Barcodes** are not displayed correctly. Only an image looking like a barcode (in about the same size) is shown.
- **PCL files** included are not shown in the graphical designer. Only a frame indicating the PCL file is shown.
- Used **soft fonts** will not display correctly.
- **Rounding off:** The designer use inches and pels in the background for storing the overlay, so if you insert measurements in cm or in inches with a decimal point (i.e. no pels) then the designer will round up the positions to the nearest pels (1/240 of an inch). The rounding off is the clearest if you select 'inches' (instead of inches.pels) and change a measurement 0.001 either up or down. Such a slight change will disappear because of the designer rounding off.

If you want to see the actual output you can activate Acrobat Reader or SwiftView from the graphical designer to see the exact result (after saving the design). (SwiftView will display the PCL files).

Installing the Graphical Designer

Installing JAVA Environment

Before installing the graphical designer you need to install JAVA Runtime Environment (if not already installed). The Java Runtime Environment can be installed in these manners:

- 1) From the ArtForm400 **menus** by selecting '80. Administering ArtForm 400', '12. Service functions', '70. Install ArtForm Designer on your PC' and '2. Launch JAVA Runtime Environment (JRE) setup program':
- 2) From the iSeries **IFS** by downloading and then run the file:
/APF3812Home/Designer/jre-6u5-windows-i586-p-s.exe
- 3) You can **download** the installation file from the web-site:

www.java.com

You need to restart your PC to complete the installation.

Installing and setting up the Graphical Designer

😊 TIP 😊

Prior to installing the designer via the ArtForm400 menu it might help to add a network share on the PC onto e.g. /APF3812Home.

You install the graphical designer from ArtForm400® by entering ArtForm400 with the command APF3812/APFMENU and selecting '80. Administering ArtForm 400', '12. Service functions' and '70. Install ArtForm Designer on your PC'.

If this installation fails you can also find the installation file for the graphical designer in the IFS: /APF3812Home/Designer/. Find the directory with the highest number and download the .exe file to your PC and double click on the file.

Note, that you can setup a fixed code page to use for the graphical designer - per user. (If blank the system codepage or spooled file codepage will be used).

You set it up from the ArtForm400 menu:

80. Administering ArtForm 400

4. Work with ArtForm 400 users

Edit the user via option 2 and type in the EBCDIC code page to use in 'Designer code page'.

Starting the Graphical Designer

If you have chosen to install a shortcut or Quick launch during install you can click on that to start up the graphical designer. The icon looks like this:



You can also start up the graphical designer by selecting 'Start', 'Programs', 'ArtForm', 'ArtForm Design' and 'ArtForm Design'.

You will be presented with this screen:

State your user profile, password and the Netserver name or IP-address of the iSeries, that you run ArtForm400™ on and click on 'Login'. Wait about 10 seconds (depending on the PC and the iSeries) and the graphical designer will start up.

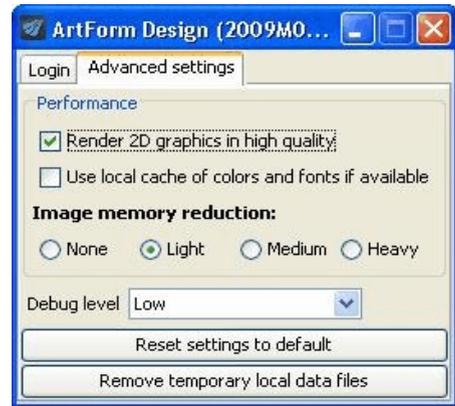
If you are not a registered user of ArtForm400 or if you do not have access to any file sets in ArtForm400 you will be refused access with the error 'Lost connection to the host' followed by another message indicating the exact problem.



Improving performance of the designer

If you want to speed up the graphical designer you can do this:

On the logon screen you need to click on the '**Advanced settings**' tab. For maximum performance you can consider either of these settings:



a) Disable '**Render 2D graphics in high quality**'. This will reduce the quality of the rendering a bit.

b) Enable '**Use local cache of colors and fonts if available**'. This will make the startup of the designer a bit faster. To update the fonts and colours later you can later select '*File*' and '*Reload fonts and colors*' in the designer.

c) Set the '**Image memory reduction**' to '**Medium**' or even '**Heavy**'. This will make any included images display in a low resolution but it will not affect the output quality of merges and previews. The higher reductions will use less RAM on the PC.

d) Set the '**Debug level**' to either '**Low**' or '**None**'.

e) Disable any **background image** that may have been included or reduce the size of the image used. You can toggle the background image via this icon in the middle of screen in the top:

Disable background image:



Enable background image:



Start designing an overlay

When the ArtForm Graphical Designer starts up you will see a window with this heading:



The job number in the heading refers to the job number of the corresponding job with the name QZRCSRVS in subsystem QUSRWRK on the iSeries. Use the command 'APF3812/WRKPRFJOB' to display all jobs used by a specific user profile -including server jobs.

Now you have these opportunities:

Create a new overlay

To create a new overlay for **PCL** and/or **PDF** output you can either press the icon looking like this:

- Or select 'File' and 'New overlay'.



If you want to create a new overlay for Zebra (**ZPL**) output you press this icon:



Edit an existing overlay

To edit an existing overlay you can either select this icon in the left side:



- Or select 'File' and 'Open'.

Then you will see a list of the file sets, that you have access to. Open the file set and select the overlay to edit.

If another already has opened the overlay you will get the error message 'Locked by another user'. To see exactly which job it is you need to try to edit the same overlay through the green screen. If it is a graphical designer job (that is inactive) you can end that job from the ArtForm400 menus if you select '80. Administering ArtForm 400' followed by '52. Work with Designer job overlay locks'.

Open a Spooled File

If you want to design the overlay for a specific kind of spooled file you can see the spooled file with the overlay if you select this icon on the right side of the screen header:



- or select 'File' and 'Open Spool File'.

You will then see a list of all the output queues that contains spooled files. The output queues are sorted by library name followed by output queue name.

Settings and tools for the design

Before you start the actual design you want to setup the graphical designer. Below are a few suggestions for that:

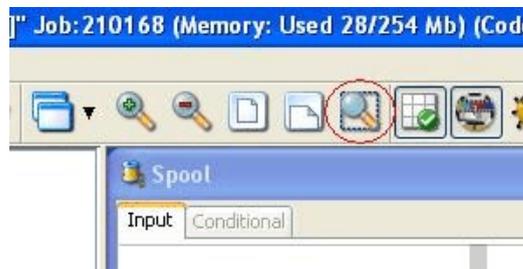
Changing the displayed size

You can zoom in or out by selecting 'Display' and 'Zoom In', 'Zoom Out' or 'Size' or by use of the icons looking like magnifying glasses. You can also click on this icon to select how you want to divide the screen between the result and input view:



You can even also drag in the corners of the spool- and result-view to change the size and position of these windows. Finally you can also drag the vertical line, that marks the border between to element listing and the views to extend or reduce the space available for the views.

Apart from the zoom icons above you can also select this to zoom into a selected area:

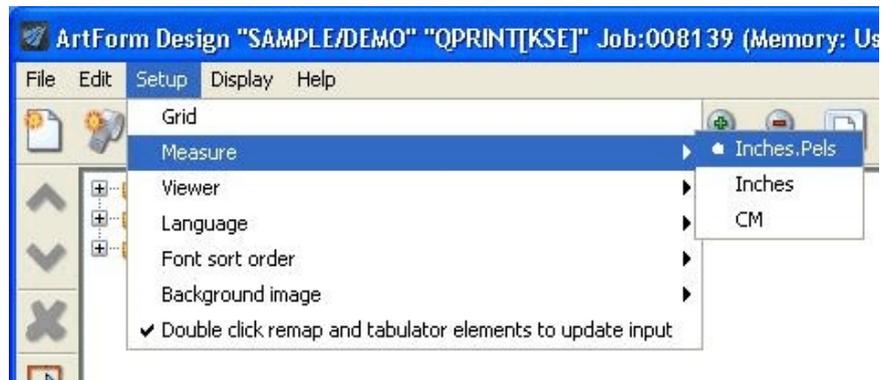


After clicking the icon you place the pointer in the result view and drag (with left mouse key) around the area that you want to zoom into.

Changing the measurement used

You can chose the measurement used to be either **inches and pels** (where the pels are 1/240 part of an inch - placed after the decimal point), pure **inches** (with a normal decimal point) or **centimeters**. Notice that measurements will be rounded off to the nearest whole number of pels (1/240 Inch).

You select it here:



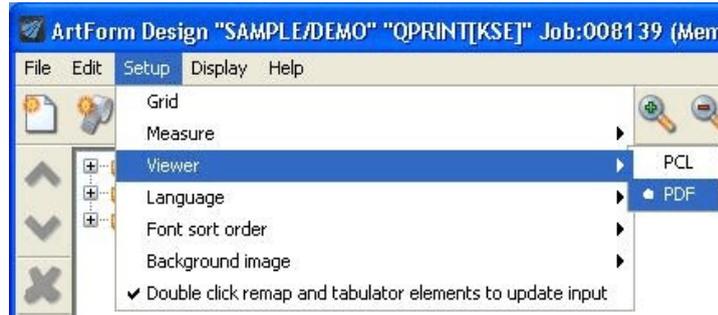
Selecting unicode output

Press this icon to enable/disable unicode output for display and preview:
(Remember to install unicode soft font(s) and specify autodownload for the used font numbers.)



Previewing the result in Acrobat reader or SwiftView

If you select 'Setup' and 'Viewer' you can select how you would like to view the merged result. Select PCL to use SwiftView and PDF to use the application associated with the '.PDF' extension on your PC - most likely Acrobat Reader.



To view the current result press this icon:
(Found on the very top right of the screen)



Including a background image

If you have one of the following situations you can use a background image to help you:

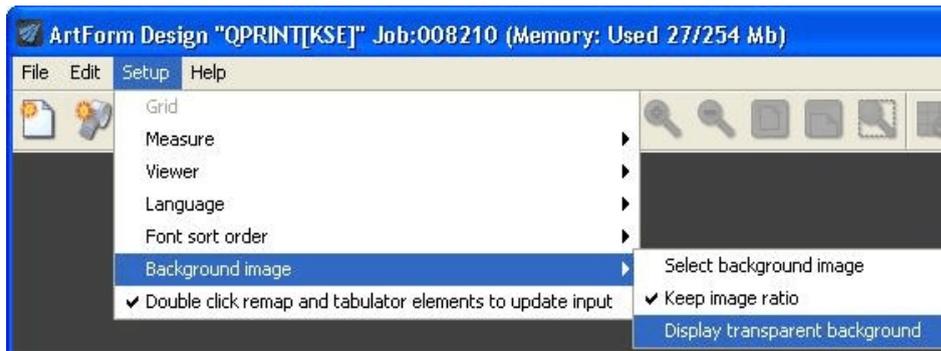
- 1) If you want to redesign or remap the spooled file to fit into a preprinted page, that you have scanned earlier.
- 2) If you want to create a complete design (or overlay) to be used instead of an existing preprinted page.

The background image is used only as help for the design and is not included in the overlay.

To select a background image select this in the designer: '**Setup**', '**Background image**' and '**Select background image**'. Please note, that the background image does not need to be installed in ArtForm400 as the case is for other images, but can be selected directly from the PC. Supported formats are jpg files and bmp files.

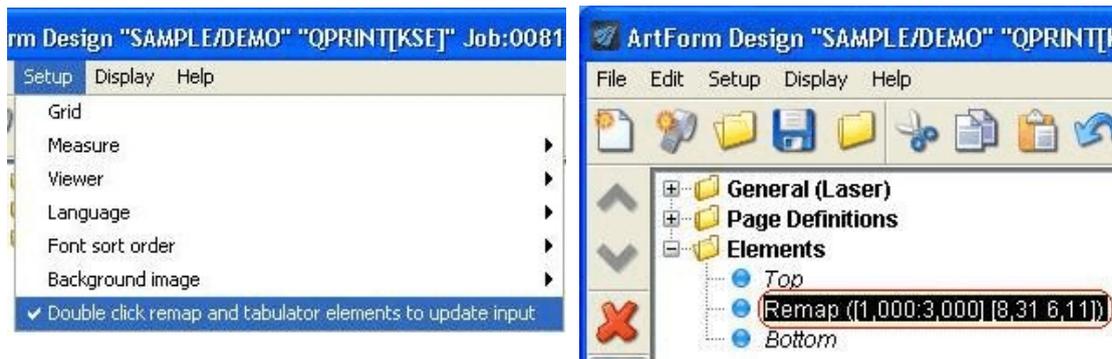
Note, that the image will be sized to fit to the page still keeping the image ratio - unless you deactivate '**keep image ratio**' under 'Background image'. Deactivation of 'keep image ratio' will make the background image to be scaled to fit the full width and height of the page.

Select 'Setup', 'Background image' and '**Display transparent background**' to make the background more transparent like below: (Notice that the upper left frame of the scanned image is covered by a frame inserted in the overlay).



Lock spooled file selections

In order to prevent users from unintentionally changing remap window and tabulator elements in the designer the **'Selected spooled area locked'** feature is added. If you activate it (and it is activated as default), then you cannot change the spooled file area handled unless you double click on the element in the element list in the upper left corner (marked in red below) and click in the Result window when the change is done..



Other Design preferences

Use of Grid

As default the graphical designer has a grid activated, which is 40 pels by 40 pels (6 lines per inch). When the grid is activated the cursor will snap to the grid, making it easier to align design elements. Change the size of the grid by selecting 'Setup' and 'Grid':



Activate 'Conditional repositioning' to reposition the grid when designing conditioned suboverlays.



Press this icon to enable a background image, that previously have been

included in the designer via 'Setup', 'Background image' and 'Select background image'.



Press this icon to (temporarily) disable the grid and the rulers. This will make it possible to place elements freely without the cursor is snapping to the grid.

Designing for colour or B/W (For laser/pdf overlays only)



You can shift between looking at the B/W output or colour output by pressing this icon in the upper toolbar.

This will affect what you see in the graphical design and when you preview the result in SwiftView and Acrobat Reader.

Designing for 203 or 300 DPI (For Zebra overlays only)



The printed ZPL result depends on if you run a 203 or 300 dpi printer. Click this icon to change the resolution view, so that it fits that of the printer.

Debugging the design



Press this icon to temporarily disable all design elements below the marked design element. This can be used e.g. to solve problems with conditions, that does not execute as you thought.

Disabling/enabling the spooled file



Press this icon to (temporarily) disconnect/connect the spooled file and view the overlay without any spooled file text.

Flipping through the pages of the spooled file

On the right side of the tool bar you will see this:



This can be used for flipping through the pages of the merged spooled file and e.g. looking at the merged result page by page. You can drag in the pointer, press the arrows to flip through the spooled file or type a specific page number, that you want to look at.

The tool bar changes its function:

- If you activate **copy management** you can use this to see each of the resulting copies. P1 denotes e.g. the first primary copy/version of the output.
- If you use an **If..Then** line and you transfer 1 or more lines onto the conditioned overlay, then you can press the 'Conditional' tab in the input view. When looking at the conditional tab you can use this to flip through the places where this condition is true on the current page. The conditional tab will show you the lines transferred to the conditioned overlay.

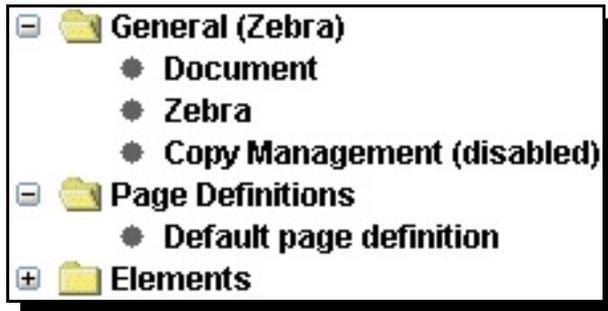
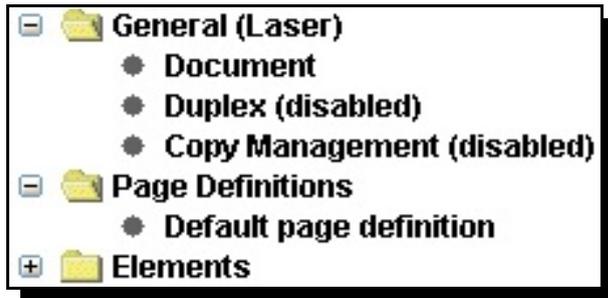
This function is very handy when remapping the spooled file text in the conditioned overlay.

Decide the sort key for the font listing

Select 'Setup' followed by 'Font sort order' to decide in what order you want to have the available fonts sorted when listed. You can chose to either list the fonts by the font number (default) or by the font description (name).

Designing the overlay

Open up the 'General' folder to view the general settings for the overlay, that you are designing:



The options within does the following:
(In dept information of these options can be found on page ?.)

Document Displays the file set and overlay name. You can change the description of the overlay, size and orientation of the paper, multi-up (Pages per side) and margins (number of lines and/or characters to move the spooled file down or right). Here you also specify the size of the label for ZPL output.

Duplex Activate duplex if needed. (Not available for ZPL output).

Zebra Sets specific Zebra (ZPL) parameters: Printing speed and relative temperature.

Copy Management Here you can activate or change the attributes of Copy Management.

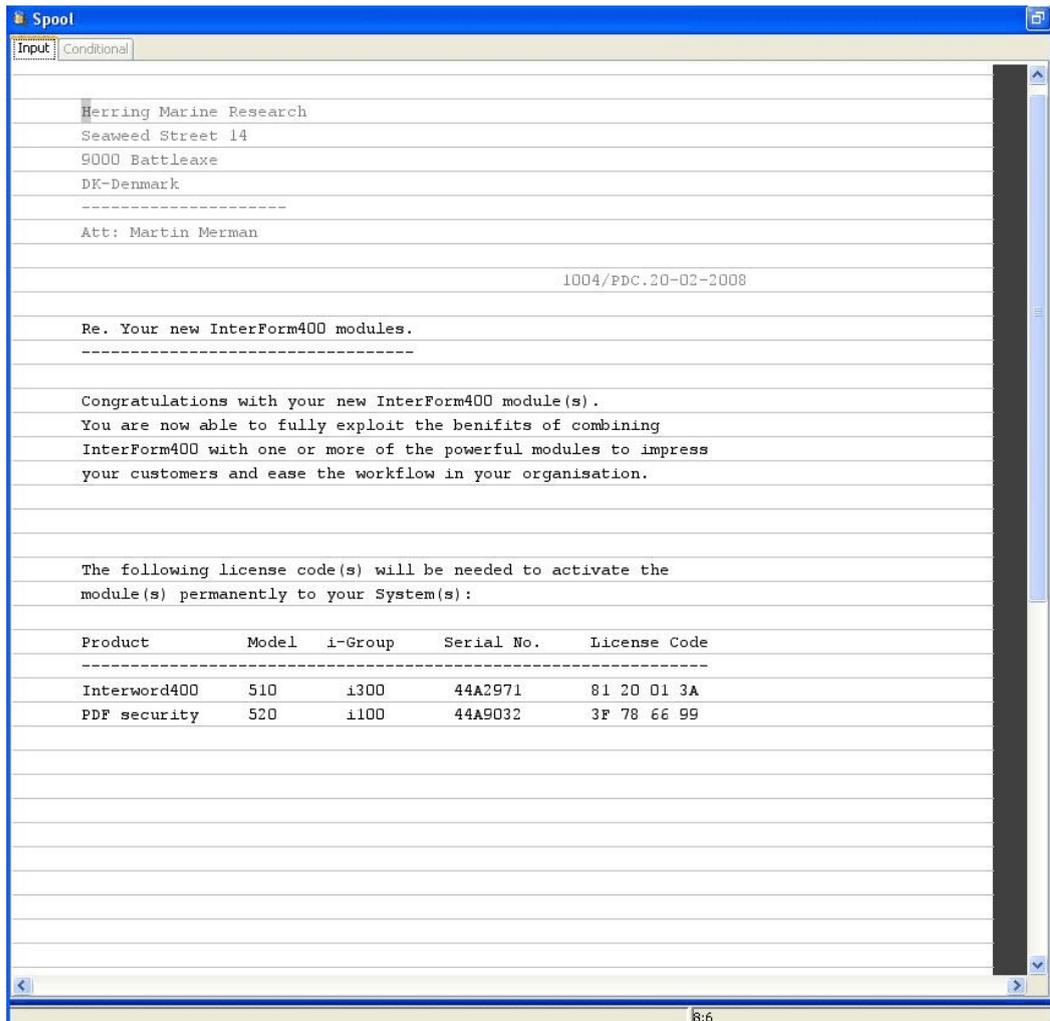
Page definitions refers to Extended Page definitions. Open up this folder and insert new lines by use of the this icon:



For more information of extended page definition refer to page ?.

The spool view

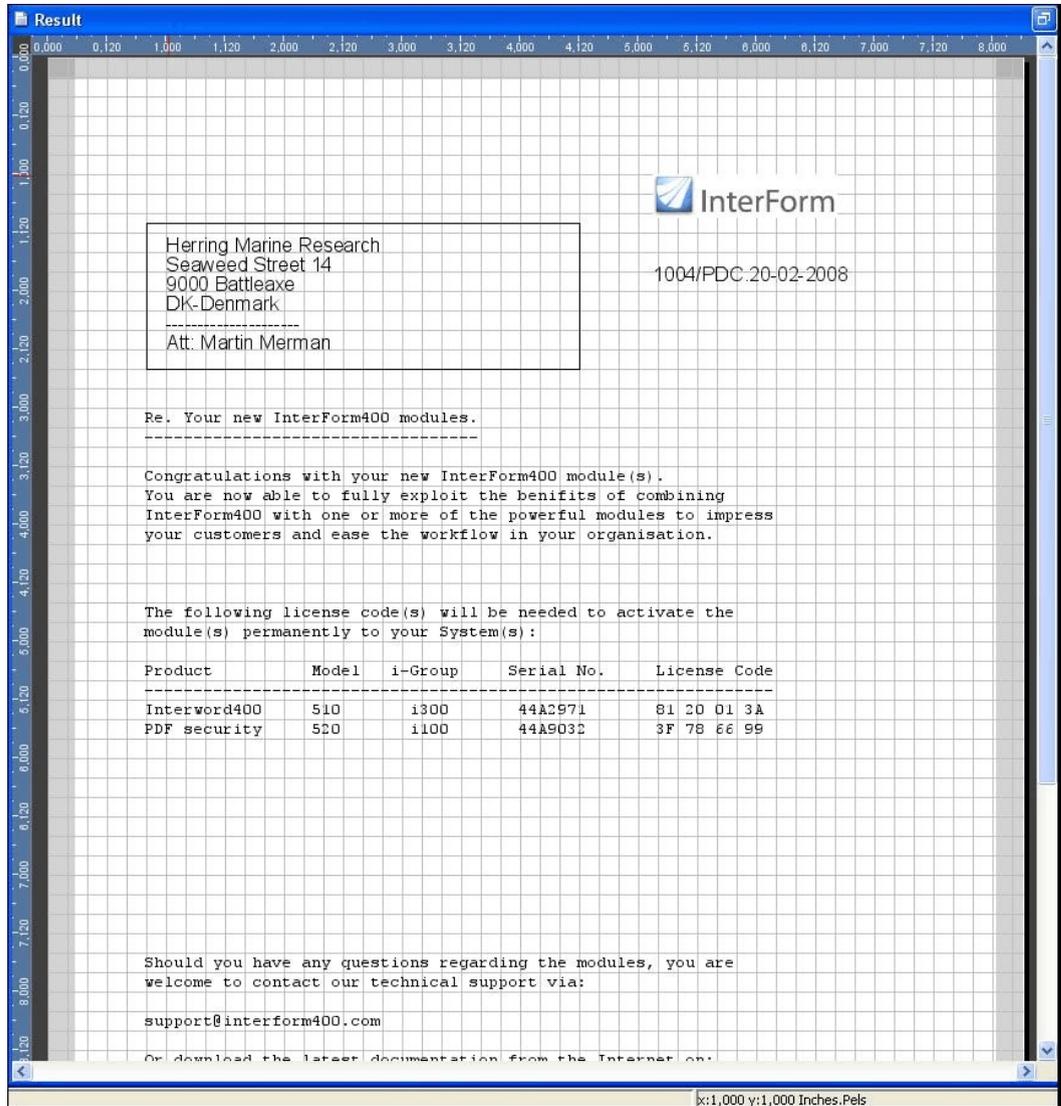
When you design, you can view the original spooled file and the resulting spooled file on the right. Select the '**Spool**' view to see the original spooled file. Text, that has already been remapped or tabulated will be shown in grey:



If the mouse pointer is placed in the spool view the current position is shown in the bottom to the right. Above the current position is position 8 in line 6. If you mark a conditional element the '**Conditional**' tab will light up - making it possible to view the lines transferred to the specific overlay by activating this tab. You can use the conditional tab to define tabulators and remap windows in the conditioned overlay.

The Result view

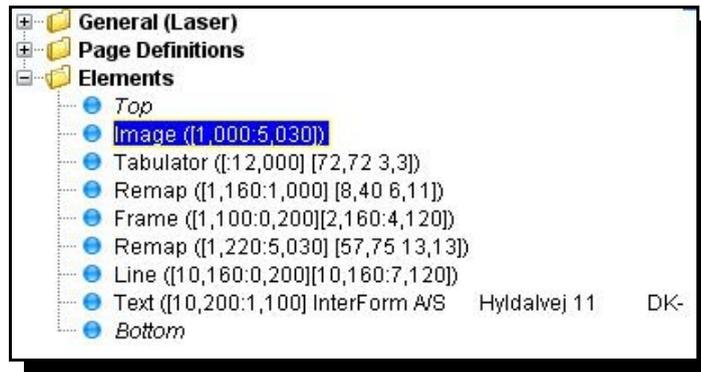
The result view looks like this:



Please note, that the rulers are only displayed with the grid. You can mark an element and drag it to the position you want. The current position of the mouse pointer is shown in the bottom in inches and pels.

Inserting design elements

To start editing or adding design elements for an overlay you need to open the 'Elements' folder of the overlay:



Press this icon to move the marked element upwards in the list.



Press this icon to move the marked element downwards in the list.



Deletes the marked design element. You can also just mark an element and press the <Delete> key.

You can also use the normal clipboard option cut/copy/paste to change the elements as well as 'undo' and 'redo' the last changes.

All elements are placed between 'Top' and 'Bottom'. Activate the position between 'Top' and 'Bottom', where you want to insert the element. The new element will be placed after this position. After activating an element you need to place it on the result view on the right.

Note: If you want to insert many elements of the same type you can double click on the element type (on the list to the left) making the element type stick and it is marked with a red frame. Now you can insert many elements of the same type without having to select the element type each time. Just click on the element type again (hold down the key for a while) when you are done.

Here are the element types you can insert:



Insert a Text line. Refer to page ? for more information.

Rotate text 30 degrees' will rotate the text additional 30 degrees if activated and open up the possibility to outline the text.



Print Info. Refer to page ? for more details..



Inserts an imported TIF/BMP image in the design. This image must have previously have been imported in ArtForm400™.



Line. Inserts a line. (Same as type 4=Line)

 Inserts a frame.

 Tabulator. Mark first the area of text on the input view, that you want to tabulate and then mark the place where it should be printed.

 Remap window. Mark the window of text, that you want to remap in the input view and where to place it in the result view.

 If..Then. Mark the area for the condition in the input view: Mark out the **line interval** while holding down the **left mouse key** and mark out the **position interval** for the condition while holding down the **right mouse key**. On the If..Then option you will see these icons next to the conditioned suboverlay:

 Insert an existing overlay as the overlay to call for this condition

 Clear the reference to the suboverlay - does not delete the actual suboverlay.

 Creates a new suboverlay to be called by the If..Then.

 When you have selected a conditioned overlay you can edit it by pressing this icon. When remapping spooled file contents in a conditioned overlay you should use the 'Conditional view' instead of 'Input view'. When finished editing this return to the main overlay by selecting 'File' and 'Close current overlay' or by pressing this icon in the toolbar:



Note the **'Remap condition parameters'** in the bottom. **'Until another is true'** is default disabled and the number of spooled files lines transferred to the conditioned overlay is **0**. Refer to the manual for more information of the **?=If..Then** function.

 Suboverlay. Inserts an unconditioned suboverlay.

 Patterns. (Same as type 7=Ink in green screen design.)



Inserts a PCL file in the design. Note: PCL files are not displayed in the graphical designer. You can press this icon:  to view the correct result in SwiftView.



Inserts a HP-GL/2 file in the design. HP-GL/2 files are not displayed in the graphical designer.



Inserts a comment. Comments are shown in blue in the graphical designer.

When you have finished the design you need to upload/save onto the ArtForm400 databases on your System i. You can do that in these manners:



Save the current overlay



Select this icon to close the current overlay. The designer will then ask if you want to save the current design (you are not offered the possibility to save as a different name). This is the same as 'File' and 'Close current overlay'.

- Or select 'File' and 'Save'/'Save As'.

Local save in the designer

If you lose the contact with the System i, you will get the message 'Lost connection to host' and the designer will end. But do not worry: A backup of your overlay is on your PC and you reload that design when you restart the designer (after regaining contact to the System i). In that case the designer will start up with the message 'Found previous unsaved overlay'.

Movement of elements in the result view

When you want to move an element you can do either of these things:

- Move the mouse pointer to the element in the result view. The element lights up in green. Click left or right mouse button to select the element. Now you can drag (by holding the button down) the element to the new position. Note, that the element snaps to the grid making it easy to align more elements
- Find the element on the list on the right and type in the new position in inches and pels.
- Mark an element with the mouse and now you can use the arrow keys on the keyboard to move the element. The element will move 10 pels (1/24 of an inch) each time you press an arrow key. Combine the arrow keys with <Ctrl> to move 80 pels (1/3 of an inch) at a time or combine the arrow keys with <Shift> to move the elements just 1 pel at a time. Note, that this movement is independent of the grid.

⚠ WARNING ⚠

If you move a group while the grid is active all the elements of the group will snap to the grid.

Grouping and ungrouping elements

You can group several elements in order to reposition them all in one process. Note, that you can only create one, current group. You can group elements together in the following manners:

- By holding down the <Ctrl> key and marking each element in the element listing to the left of the screen.
- By holding down the <Ctrl> key and marking each element in the result window.
- By clicking this icon:



- then hold down the left mouse button and drag a red frame around the elements you want to select. After you have selected elements in this manner you can still hold down the <Ctrl> key and mark additional elements as described above.

While you have grouped several elements you can change the font for all the elements at one time by selecting the common font in the lower left corner of the designer.

You can ungroup the elements in these manners:

- By holding down the <Ctrl> key and clicking on an element you will remove this element from the group.
- By clicking anywhere in the result window (without holding down <Ctrl>) outside an element then all the elements will be removed from the group.

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