

# **RW-480**

## CLIENTS

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Microsoft® Windows® Millennium Edition

Microsoft® Windows NT® Server operating system Version 4.0

Microsoft® Windows NT® Workstation operating system Version 4.0

Microsoft® Windows® 2000 Professional

Microsoft® Windows® 2000 Server

Microsoft® Windows® XP Professional

Note:

"RW-480 PS" stands for "RW-480 Postscript Level 3 Compatible Option"

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## RW-480 CLIENTS

This manual explains the installation and operation of RW-480 PLOTCLIENTs as well as two networks. You find out how you can use the RW-480 PLOTCLIENTs or network protocols to produce print jobs, set print parameters and to send the print jobs to the RW-480 PLOTBASE server program. The following RW-480 PLOTCLIENTs and protocols are described:

- RW-480 PLOTCLIENT WIN
- RW-480 WINPRINT
- RW-480 PLOTCLIENT HDI/ADI
- RW-480 PLOTCLIENT WEB
- RW-480 PLOTCLIENT MAC
- RW-480 PLOTCLIENT LPR
- RW-480 PLOTCLIENT FTP

The following gives a brief explanation of all RW-480 PLOTCLIENTs. The precise functional descriptions are given in the respective chapters:

- **RW-480 PLOTCLIENT WIN**

RW-480 PLOTCLIENT WIN is available for Microsoft Windows NT 4.0, Microsoft Windows 2000, Microsoft Windows XP and Microsoft Windows 95/98/ME and is a program for preparing plot jobs, which it then sends to RW-480 PLOTBASE. This is done by collating set-based jobs.

- **RW-480 WINPRINT**

The Windows printer driver RW-480 WINPRINT allows print jobs from Windows applications, to then pass them directly to RW-480 PLOTBASE as a job.

- **RW-480 PLOTCLIENT HDI/ADI**

With RW-480 PLOTCLIENT HDI/ADI you produce HPGL/2-files from the drawings and documents, which have been produced in the AutoCAD programs AutoCAD R13, AutoCAD R14, AutoCAD 2000, AutoCAD 2000i, AutoCAD LT 2000, AutoCAD Lti 2000, AutoCAD 2002, AutoCAD LT 2002, AutoCAD 2004, AutoCAD LT 2004, AutoCAD 2005, AutoCAD LT 2005 or AutoCAD 2006. The print jobs can be sent to the RW-480

PLOTCLIENT WIN program or directly to the RW-480 PLOTBASE server program.

- **RW-480 PLOTCLIENT WEB**

The RW-480 PLOTCLIENT WEB enables you to send print jobs to RW-480 PLOTBASE both via the Intranet as well as via the Internet. You can stipulate numerous print parameters. Successful processing of the print processes in RW-480 PLOTBASE can be controlled via a status message. Equally, you can also have an e-mail sent to obtain a message on successful job completion.

- **RW-480 PLOTCLIENT MAC**

With the printer driver RW-480 PLOTCLIENT MAC, you can send print jobs to RW-480 PLOTBASE from applications, which run on the Macintosh operating system Mac OS 10.3.

- **RW-480 PLOTCLIENT LPR**

With the lpr command, you can send print jobs to RW-480 PLOTBASE via RW-480 WINPRINT, without having to use an application program. This printing facility is particularly meant for UNIX users.

- **RW-480 PLOTCLIENT FTP**

With the ftp command you can send print jobs to RW-480 PLOTBASE without having to use an application program. This printing facility is particularly meant for UNIX users.

We wish you every success in your work with RW-480 CLIENTS.



## Manual conventions

In the text, you can come across two possible terms, which are intended to point out special circumstances or advantages or even to warn you against certain work steps:



**Note:** You are free to decide whether you wish to follow the recommendation given in a note or not. Notes are usually used to draw your attention to special circumstances or even to point out useful commands or ones that are easily forgotten and overseen.



**Attention:** It is advisable to take particular notice of any possible problems marked with "Attention" to e.g. avoid problems with your data stocks, etc

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## **Part I – RW-480 PLOTCLIENT WIN**

## Introduction

This part of the manual describes the program RW-480 PLOTCLIENT WIN. RW-480 PLOTCLIENT WIN is available for Microsoft Windows NT, for Microsoft Windows 95/98/ME, for Microsoft Windows 2000 as well as for Microsoft Windows XP and is a program for preparing plot jobs, which it then sends to the server program, RW-480 PLOTBASE. This is carried out by collating set-based jobs.

The Client-Server architecture of RW-480 PLOTBASE enables each connected user to define their print jobs and drawing sets themselves and to send them to RW-480 PLOTBASE for output. The interface used between RW-480 PLOTBASE and the Client is the Interpreter, which covers the Clients' information so that RW-480 PLOTBASE can easily work through the set requirements.

Compliance of standards in conjunction with the graphic user interface of Microsoft Windows enables problem-free integration in existing environments and applications.

## Installation

In this chapter you can read about which system requirements have to be fulfilled and how to carry out the installation.

### System requirements

Please read through the following recommendations carefully. They can be very helpful in finding the optimum hardware for your requirements.

- **Operating system**

Microsoft Windows XP Professional, ServicePack 2  
Microsoft Windows 2000 Professional, ServicePack 4  
Microsoft Windows NT 4.0  
Microsoft Windows 95/98/ME  
Microsoft Internet Explorer 5.0 or higher

- **Network interface/Configuration**

10/100 Base T Ethernet, the TCP/IP configuration is necessary

- **Processor & System memory**

Dependent on your operating system we recommend following processors and system memory:

Windows 95/98: Pentium II 233 MHz, at least 32 MB RAM  
Windows ME: Pentium II 233 MHz, at least 64 MB RAM  
Windows NT 4.0: Pentium II 200 MHz, at least 64 MB RAM  
Windows 2000: Pentium II 200 MHz, at least 64 MB RAM  
Windows XP: Pentium II 300 MHz, at least 128 MB RAM

- **Harddrive**

At least 500 MB

- **Monitor**

At least 1024 x 768 pixels resolution

## Installation of the RW-480 PLOTCLIENT WIN

This section describes how to install the program. The installation program is in the released directory "tools" of RW-480 PLOTBASE:

\\[ServerPC]\tools\RW\_480\_PLOTCLIENT\_WIN

To install the program, please proceed as follows:

1. For installation, start Windows as user with administrator rights and open Windows Explorer.
2. If Windows has already been started with administrator rights, quit all active programs resp. do a data backup.
3. Go via the network to the installation directory \\[ServerPC]\tools\RW\_480\_PLOTCLIENT\_WIN.
4. Start the file "Setup.exe".
5. Choose the setup language and click on "OK".
6. In the "Welcome" dialogue, click on "Next".
7. Click on "I accept ..." if you accept the licence agreements. Click on "I reject" if you do not accept and want to stop installation. Then click on "Next".
8. Choose the setup type that you prefer and click on "Next".
9. Specify the "network spool path" and click on "Next".  
The first part \\[Server] indicates the target computer on which RW-480 PLOTBASE is installed. The second part \\[Spool] indicates the released spool directory there.
10. If you want to keep your settings, click on "Install" now.  
RW-480 PLOTCLIENT WIN is installed now.
11. As soon as installation has finished, click on "Finish".
12. If you want to start RW-480 PLOTCLIENT WIN now – for the first time – you will be asked to enter the defaults for new SSL print jobs. Answer this query with "OK".
13. In the job editor, enter the global job information on the "Job Specific" and "Job Additional" tabs.
14. Go to the cards "Default Specific" and "Default Additional", and enter the detailed defaults here. The possible settings in the job editor are described in detail from page 33.
15. Quit your defaults with "OK".
16. Answer the query about preparing a job example.
17. If you answer with "Yes", RW-480 PLOTCLIENT WIN prepares

a job example, which you can send off straight away as the first print job.

## Start and quit program

- **Start program**

The installation program sets up its own program group with program symbols towards the end of the installation. To start RW-480 PLOTCLIENT WIN, open it via the "Start" bar or double click on its program symbol.

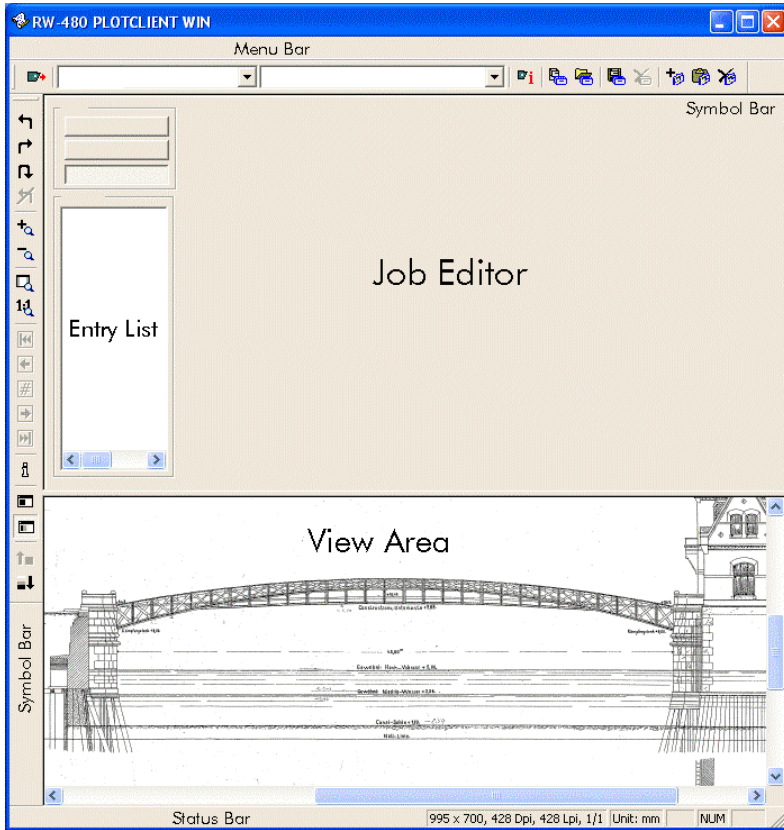
Your first sample print is easy to manage and will already be started at the end of your installation. For explanations you will have to read in following two chapters "From the drawing to the job" on page 19 and "Job editor" on page 33.

- **Quit program**

You can either quit RW-480 PLOTCLIENT WIN via the menu item "File – Exit" or with the usual Windows keyboard shortcut "ALT+F4".

The program's functions are now described in the following chapters.

## Program window





## Program sequence

This chapter provides you with an overview of how the drawing gets into the job list of RW-480 PLOTBASE and is then printed. At the end of the chapter you will find a graphic, which illustrates the job flow.

Together with the introductory chapter, this chapter is intended to help you to get to know the environment and the embedding of the program in it.

In addition, the most important terms used in the program are also explained.

## Name conventions

### **Job:**

A job is a print job, which includes at least one entry or set of entries, which are to be printed off on the plotter as a specific combination and with individual settings. The job can, inter alia, be compiled using RW-480 PLOTCLIENT WIN and can include an unlimited number of entries.

### **User:**

The user, or job producer, prepares the jobs with RW-480 PLOTCLIENT WIN. The user can simultaneously be the client.

### **Client:**

The client places an order, to have one or several drawings printed out via RW-480 PLOTBASE on the plotter. The client can simultaneously be the user. The client is also the recipient of the printed and, optionally folded drawings.

### **Entry:**

An entry is a drawing with the corresponding description, required for RW-480 PLOTBASE. This description contains all the information about the drawings, e.g. target format, output medium, drawing header, etc. Entries are compiled in RW-480 PLOTCLIENT WIN to form jobs or can also represent a job singly.

The entries or drawings can have the following file formats, which RW-480 PLOTCLIENT WIN recognizes from the file extension:

- Calcomp [\* .906, \*.907]
- CALS MIL-STD 1840B,28002A [\*.cal]
- DWF [\*.dwf]
- DWG [\*.dwg]
- DXF [\*.dxf]
- HPGL/2, HP-RTL [\*.plt, \*.rtl]
- Intergraph [\*.cit, \*.tg4]
- PCX [\*.pcx]
- RLC [\*.rlc]
- T6X [\*.t6x]
- TIFF G4 [\*.tif]
- Windows Metafile [\*.wmf]
- Windows OS/2 Bitmap [\*.bmp]

As an option, the file format CGM [\*.cgm] as well as PDF and postscript, i.e. RW-480 Postscript Level 3 Compatible Option are also available [\*.pdf, \*.ps]. The file format DWF/DWG/DXF can only be used if you have installed a full version from AutoCAD series 2000 to 2006.



**Note:** RW-480 PLOTBASE cannot print DWG and DXF files, that contain several single files.

### **SSL-file:**

The SSL-file is automatically produced by RW-480 PLOTCLIENT WIN when preparing a job and contains all the information about the job itself as well as all the descriptions of the individual entries.

The SSL file is required by RW-480 PLOTBASE, to be able to print off a job on the plotter.

### **Draftsman:**

The [technical] draftsman/draftswoman produces the drawings for the client, which can later be collated by the user to form jobs.

## From the drawing to the job

The following lists the path of a drawing from its preparation through to the job list of RW-480 PLOTBASE. The work steps are presented functionally and not person-related, i.e. that several functions can be carried out by the same person.

With the help of this section, the following graphic and the first chapter of the manual, you should be able to grasp the task and possible applications of RW-480 PLOTBASE and the environment:

### 1. PRODUCTION:

The [technical] draftsman/draftswoman produces the drawing using an EDM, CAD or similar system and saves it in one of the following formats, which are identified by RW-480 PLOTBASE from the file extension:

- Calcomp [\*906, \*.907]
- CALS MIL-STD 1840B,28002A [\*.cal]
- DWF [\*.dwf]
- DWG [\*.dwg]
- DXF [\*.dxf]
- HPGL/2, HP-RTL [\*.plt, \*.rtl]
- Intergraph [\*.cit, \*.tg4]
- PCX [\*.pcx]
- RLC [\*.rlc]
- T6X [\*.t6x]
- TIFF G4 [\*.tif]
- Windows Metafile [\*.wmf]
- Windows OS/2 Bitmap [\*.bmp]

As an option, the file formats CGM [\*.cgm] as well as PDF and postscript, i.e. RW-480 Postscript Level 3 Compatible Option are also available [\*.pdf, \*.ps]. The file format DWF/DWG/DXF can only be if you have installed a full version from AutoCAD series 2000 to 2006.



**Note:** RW-480 PLOTBASE cannot print DWG and DXF files, that contain several single files.

2. DRAG & DROP:

The user brings all the drawings intended for printing into RW-480 PLOTCLIENT WIN using Drag & Drop or using the "insert entry" or "add entry" functions.

3. PREPARE ORDER:

The user collates the drawings to form jobs in RW-480 PLOTCLIENT WIN, assigns print settings and checks the drawing using check preview.

4. PROVISION:

As soon as the user has produced the jobs, they automatically send them via the network [LAN] to the directories provided using the program command, "File – Print SSL", thereby making them available for RW-480 PLOTBASE to print.

6. COLLECTION:

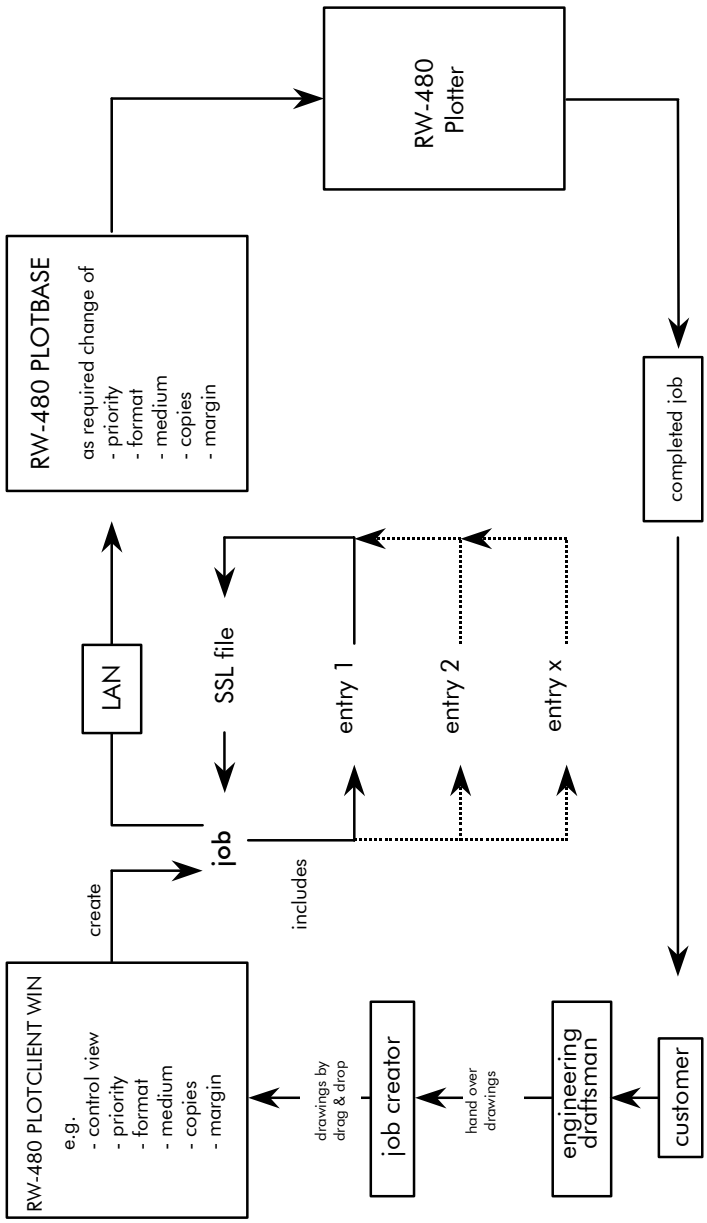
RW-480 PLOTBASE regularly reads the directories and thus checks whether new jobs are ready for printing. As soon as a job is ready, it is loaded by RW-480 PLOTBASE and immediately appears in the job list.

7. RW-480 PLOTBASE:

The jobs are now in the job list ready for printing.

## **Job and entry in the chart**

The following drawing has been prepared functionally, now person-related. It is therefore possible that several functions are simultaneously carried out by one person:



## Tools

This section gives you a brief overview of the program's tools. You can blank out and insert the toolbars using the menu item "view". You work in the job editor with the main symbol bar, and use the icon bar for the file preview.

### Main symbol bar



Send job to the SSL spool folder



View and selection of the SSL spool path



Open view information for the current plotter



Open new job



Open existing job



Backup job



Delete job



Attach entry in entry list



Insert entry in entry list



Delete entry from entry list

## Icon bar



Rotate drawing 90° to the left



Rotate drawing 90° to the right



Rotate drawing through 180°



Drawing in original position



Successively enlarge drawing



Successively reduce drawing



Switch drawing to zoom all



Switch drawing to view 1:1



Multipage document: View first page



Multipage document: Back one page



Multipage document: Enter destination page



Multipage document: Forward one page



Multipage document: View last page



Open file information



Display drawing in black & white view



Display drawing in preview in gray tones



Display drawing in preview lighter,  
if gray display – has no effect on printing



Display drawing in preview darker,  
if gray display – has no effect on printing



## Presets

Before you begin with the work in RW-480 PLOTCLIENT WIN, you must first set a few presets as e.g. determine the SSL paths or enter the SSL default values.

### Setting the SSL defaults

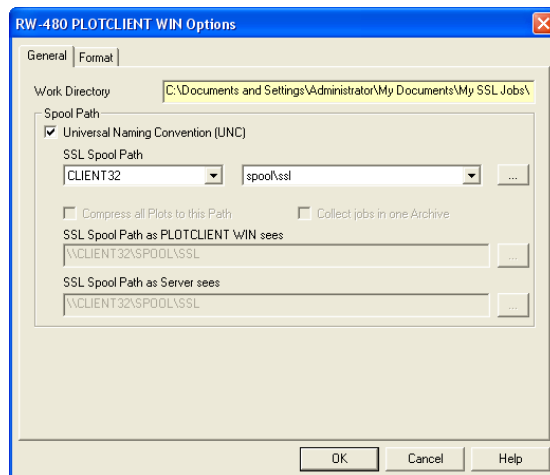
Setting of the SSL default values is automatically called up following installation, in the very first program start. Enter which values are to be the standard values for all SSL print jobs. Also, after the first program start, these default values can be changed whenever you wish. Simply open the job editor via the menu item "Settings – SSL default".

A detailed description of the possible settings is given in Chapter "Job editor" from Page 33.

### "General" tab

The "General" tab is opened via the menu item "Settings – Options".

RW-480 PLOTCLIENT WIN takes the information on the directories, which you entered during installation and enters it in the relevant fields:



- **Work directory**

This is the folder, in which RW-480 PLOTCLIENT WIN temporarily caches the jobs, before they are finally sent to the folder that RW-480 PLOTBASE looks through for jobs. The working folder should always be a local folder, so that the program can quickly access the data. This folder is in the two following fields: "SSL spool path from the view of RW-480 PLOTCLIENT" and "SSL spool path from the view of RW-480 PLOTBASE". The default setting is automatically preset after installation of PLOTCLIENT.

**Spool Path**

- **Universal Naming Convention**

The Universal Naming Convention guarantees a uniform view of the path details from all the computers connected to your network. If you activate this option, you only need to fill out the field "SSL Spool path".

After the UNC details, enter the details for the spool path in two stages. Firstly, on the left, enter the name of the server PC to which your plotter is connected, so that the RW-480 PLOTCLIENT WIN can collect the necessary [SMNP] device information of the plotter. Then on the right, enter the spool path, which can also be routed to another computer than the server PC if necessary.

The advantages of this two-stage approach are as follows:

On the one hand, you can provide a separate PC with operating system e.g. Windows 2000 or Windows XP to allow simultaneous access for more users.

On the other hand, it gives you the possibility of providing one RW-480 PLOTBASE and one plotter in your network for several server PCs, so that several Client PCs with a RW-480 PLOTCLIENT WIN can print on several plotters at the same time.

- **SSL spool path - computer**

As your network can have several server PCs with a RW-480 PLOTBASE and a plotter, here you should select the server PC with plotter to be used for printing by the current RW-480 PLOTCLIENT WIN .

- **SSL spool path - path**

If you want to state the path name considering the UNC, you only need to state the directory for the print orders here. State the directory exactly as it is stated in your inhouse network.

As you can create several ssl spool paths, here you can choose from all currently created spool paths.

- **Compress all Plots to this Path**

The RW-480 PLOTCLIENT WIN can compress your jobs. To do this, activate the left-hand option, "Compress all jobs..." above the two "SSL-Spool path" details. Your jobs will be automatically compressed in zip Format.

If you want to send more than one job, you can also collect the jobs in one zip file. If you want the path displayed after sending a print job, in which the zip file is, activate the view of the "ZIP path" on the "formats" tab.

- **Collect jobs in one archive**

It often happens that you not only want to send one single job by e-mail – as described above, but have several different print jobs. To be able to send more than one print job in only one file via e-mail, RW-480 PLOTCLIENT WIN can compress all jobs in one single file, which is stored in zip format.

To do this you must activate the option "Collect jobs in one archive" above the two "SSL Spool path" specifications. This option can only be activated when "Compress all Plots to this Path" has been activated.

If you want the path displayed, in which the zip file is cached, activate "Show ZIP path after plot" on the "format" tab.

- **SSL Spool path as PLOTCLIENT sees**

Here you set the folder, in which RW-480 PLOTCLIENT WIN sends the jobs for RW-480 PLOTBASE. As the two programs usually work together via the network, the folder for RW-480 PLOTCLIENT WIN lies on another drive than is the case RW-480 PLOTBASE. If RW-480 PLOTBASE works locally on C:\, this C-drive is a drive letter e.g. between E and Z for RW-480 PLOTCLIENT WIN.

- **SSL Spool path as PLOTBASE sees**

Here you have to enter the plot path, as RW-480 PLOTBASE sees the path. As RW-480 PLOTBASE and RW-480 PLOTCLIENT

WIN work together via the network, there will be different drives.

## Set up SSL spool paths

If you have several devices or types of software in the in-house network for printing you can set up the corresponding SSL spool path here for all these possible print outputs. Proceed as follows:

1. Open the "Plot Path" window by clicking once on the button to the right of the path information.
2. Click once on the button "New" to select the server PC on which a spool path is already created or is to be created.  
The PLOTCLIENT WIN automatically enters the server PC and the spool paths established here in the window "Plot Path".
3. If you can see several spool paths in the window "Plot Path", select one of these and then click on "Set", so that the right spool path is available for your current work in PLOTCLIENT WIN.

You can obtain information about the print job recipient connected with the selected SSL spool folder by clicking on the following info button once:



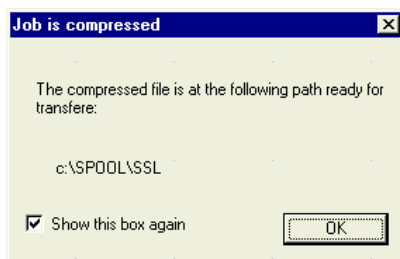
**Note:** If several spool directories have been set up on one RW-480 PLOTBASE server PC, you will have to select the right one. Several spool directories may have been set up to give different users or user groups different access rights. Please ask your administrator which spool paths are available to you.

## "Format" tab

Open the "Format" tab via the menu item "Settings – Options". On this tab you set the size unit that is to apply for all work with RW-480 PLOTCLIENT WIN. You can choose between "Pixels", "Millimeters" and "Inches". The current valid size unit is always displayed in the status row at the lower edge of the screen.

"[600 DPI]" shows that 600 DPI is the standard value in RW-480 PLOTCLIENT WIN and all conversions in a conversion of size units always refer to 600 DPI.

After each print job you can also have displayed, where the program has filed the compressed files:

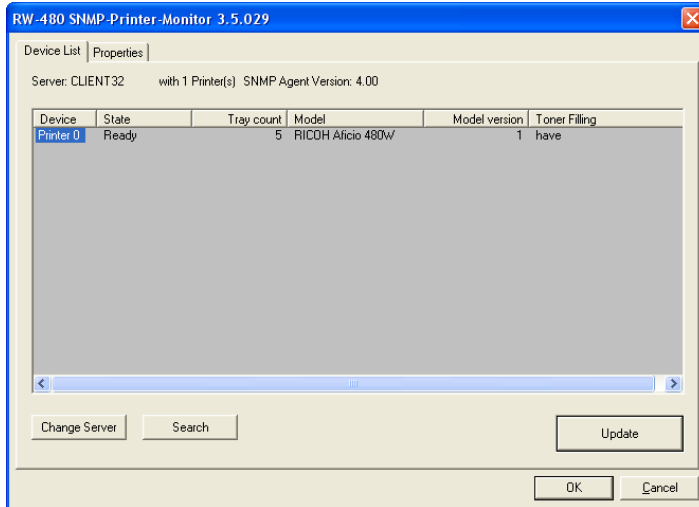


Read in the previous chapter "General" tab how you can automatically receive your print jobs from RW-480 PLOTCLIENT WIN compressed. The "General" tab describes how to make the necessary settings.

If you have switched off renewed view of the message and want it displayed again later, activate "Show ZIP Path after plot" on the "Format" tab.

## SNMP Monitor

The SNMP printer monitor shows you the properties of the plotter connected to the system. The monitor is opened under "File - Device Information":



### Device List

The card "Device List" gives you the following information:

- **Device**

This displays all the units connected, numbered from Printer 0 to Printer x. In the current program version however only one plotter is ever connected.

- **State**

The State displays general information, e.g. ready to print, there is an error, or paper has run out.

- **Tray Count**

This list shows the number of trays, i.e. how many reels the plotter has.

- **Model**

This brings up the complete model number, e.g. "RW-480".

- **Model version**

Here you see the version number of the model connected.

- **Toner Filling**

Here you see the level of remaining toner.

- **Folder**

This column shows whether or not a folder is connected.

## **Device Properties**

The card "Properties" contains the following information:

- **Media Source**

This lists the plotter reels to which the additional information in the adjacent columns refers.

- **Media Type**

This column shows the material available on each reel, e.g. paper, transparency, foil or film.

- **Filling**

This shows you how much material remains, i.e. how much paper, transparency etc. is still available on the reel.

- **Width**

This shows the actual width of the medium being used.

- **Type**

This column shows whether the tray in question is a reel, a paper cassette, or a single sheet feed.

- **Max. Width**

Here you see the maximum possible width of the medium that can be accommodated in the tray.

- **Min. Width**

Here you see the minimum possible width of the medium that can be accommodated in the tray.

- **Max. Length**

Here you see the maximum possible length of the medium that can be accommodated in the tray.

- **Min. Length**

Here you see the minimum possible length of the medium that can be accommodated in the tray.

## **Change language**

When starting the program for the first time, your RW-480 software comes up in the language you selected on installation of the program.

But if you want to change the language of the program, you can do that quickly and easily in three stages in Windows without any further adjustments:

1. Open the language setting using the menu point "Settings - Language".
2. Adjust the required language and press "OK" to confirm.
3. Start your RW-480 program again.

If you always want the program to appear in the language set as standard for your Windows operating system, under point 2 you should select the option "System" with the globe instead of a language.



## Job editor

In the job editor you can change the settings for jobs and the entries included in them. Furthermore, you can also delete jobs or entries.

The individual possible settings range from the format size to the selection of the print medium and the output shaft through to details of the position of the drawing header.

### "Job" settings area

This section describes the general settings for all jobs, which can be adjusted on the two cards "Job Specific" and "Job Additional".

### "Job Specific" tab

On the "Job Specific" tab all entries that the user has made in RW-480 PLOTCLIENT WIN automatically appear. You can change these details:

The screenshot shows the 'Job Editor' dialog box with the 'Job Specific' tab selected. The 'Job' dropdown is set to 'Job'. The 'Entries' list on the left shows '(01):Color Wheel' selected. The 'Data' section contains the following fields and controls:

- Job Name:** A text field containing 'Welcome'.
- User Name:** A text field containing 'User'.
- Customer:** An empty text field.
- Account:** An empty text field.
- Notes:** An empty text area.
- Collate:** A checkbox labeled 'On' which is checked.
- Job Copies:** A numeric spinner set to '1'.
- Sample Print:** A checkbox labeled 'On' which is unchecked.
- Distribution:** An empty text field.
- Page Order:** A dropdown menu set to 'Auto'.
- Output:** A dropdown menu set to 'front'.
- Job Flag Sheet:** A checkbox labeled 'On' which is unchecked.
- Priority:** A dropdown menu set to 'Normal'.
- Plotter:** A dropdown menu set to 'auto'.
- e-mail:** An empty text field.
- Delete:** A checkbox labeled 'On' which is unchecked.

- **Job Name**

This is the name of the plot job that the user has chosen.

- **User Name**

In this field the name of the employee who collated the plot job and sent it for printing is displayed.



**Note:** Insofar as the function "User authentication" is activated at the RW-480 plotter, make sure that the user name here is identical with the user which has been set up there, otherwise the print job will not be carried out! To keep a better check on all used user names, it is advisable always to take the user names used in the network. If you do not know the user names set up at the RW-480 plotter, ask your administrator!

- **Customer**

Here you can enter the name of the customer, for whom the job is carried out.

- **Account**

In this field the account number of the client is entered. This can be an account number, which you assign in-house or the receiver of the invoice in-house.

- **Notes**

This field is free for your notes. You can enter up to maximum 50 characters. Please do not use any quotation marks.

- **Distribution**

In this field you enter which persons are to receive a copy of the job. You can enter up to maximum 60 characters. Please do not use any quotation marks.

- **Collate**

Activate this field if the plot job is to be printed out collated. Collated means that the entries of an order are printed out as follows when several copies are required:

E.g. you have the entries A, B and C. Three copies of each are to be produced. With activated sort ("ON") the print outs are in the sequence A, B, C - A, B, C - A, B, C. If the printout is not sorted, the complete number of entries are printed out: A, A, A - B, B, B - C, C, C.

- **Priority**

This shows what priority the job has been given by the user:

Normal, High, Low, Wait. You can alter the priority here or set it to the highest level.

- **Job Copies**

Here you can enter the number of job copies.

- **Job Flag Sheet**

Activate the "ON" field, if you want an overview of all the information that you have entered in this "Job" tab printed out on a cover sheet. You can add further information in the comments field below this, which may not have more than a maximum 50 characters. Please do not use any quotation marks.

- **Plotter**

This default cannot be changed. The RW-480 plotter is preset.

- **e-mail**

Use of the email function must be switched on in the presets. To be able to use the email function, Microsoft® Outlook must be installed. Furthermore "Internet Mail" should be installed.

Here you can instruct the program to automatically send an e-mail or a message to the user following successful job completion. To send an email, enter the email address of the user.

- **Sample Print**

Activate this option, if you want to check the quality of a print off. Only the first set of copies will then be printed. The print off of further sets of copies is stopped, so that you can check the quality of the print off. Then you will be asked, whether you would like to continue with the print out or abort.

- **Page Order**

Here you can choose from three options of pages to be printed – standard, reverse, auto:

**standard:** The set entries are printed out in the order they are shown in the job editor ( 1, 2, 3 ... ). The order of the sheets in the resulting stack depends on the selected output tray: If the "upper" tray is selected, the order of the sheets in the stack is the same as the print order: 1, 2, 3,4 ... If the "lower" tray is selected, the order of the sheets in the stack is reversed: ... 4, 3, 2, 1.

**reverse:** The set entries are printed out in reverse order ( ... 4,

3, 2, 1 ). The order of the sheets in the resulting stack depends on the selected output tray: If the "upper" tray is selected, the order of the sheets in the stack is the same as the print order: ... 4, 3, 2, 1 If the "lower" tray is selected, the order of the sheets in the stack is reversed again. The result is the original: 1, 2, 3, 4..

**auto:** The print order depends on the selected tray. The order of the sheets in the resulting stack does not depend on the selected output tray. It is forward ( 1, 2, 3, 4, ... ) in case of tray "upper" and in case of tray "lower".

- **Output**

You have two possibilities for the output of your printouts on plotter RW-480: upper and lower. The standard setting is output at the top.

- **Locked Print**

If you have important print jobs, which others should not be able to see, activate the "Security" option. Your job can then not be viewed in RW-480 PLOTBASE by any other person. In the RW-480 PLOTBASE it only has the status "Password". Print jobs secured in this way can only be printed out by you entering the password, which you have set here in RW-480 PLOTCLIENT WIN. The job is automatically deleted immediately after it has been printed.

- **Delete**

If you activate this option, the job is deleted again by RW-480 PLOTBASE immediately after printing.

## "Job Additional" tab

Use the "Job Additional" card to adjust the settings for "Combine" and "Document Server":

"Combine" refers to grouping together drawings for joint print-out on one single sheet. In this way, you can have up to 16 drawings printed out on one single sheet.

The "Document Server" is a memory unit in the plotter where RW-480 PLOTBASE can send one or several documents for later printout. The documents are saved in the document server memory until they are printed out directly at the plotter, or the job is deleted in the document server. The documents saved in the document server cannot be sent to printing by RW-480 PLOTBASE!

### Combine

- **Quantity**

Adjust how many pages you want to print on the sheet. There is a choice of 2, 4, 8 or 16 pages.

- **Paper Size**

Enter the size of the sheet of paper where the individual pages are to be printed together.



**Note:** Custom paper sizes are not supported for the feature "Combine"!

- **Media Type**

Use this selection menu to choose the media type for printing the summarized pages: any, paper, transparency, film and environment paper. The choice depends on what you have put on the rolls of your plotter.

- **Media Source**

Select one of the shafts with the rolls for the different print materials (paper, film, etc.). The rolls can differ in width.

If you choose the "auto" setting, the plotter chooses the medium supply corresponding to the format size of the drawing. If this medium has been used up, the plotter chooses the roll with the next larger format.

You can use the manual feed option to insert a special medium in the plotter. The print job is marked blue in the job list.

- **Direction**

Finally, indicate the order for printing the individual pages on the sheet. The "Z" direction prints the pages line by line arranged from left to right until the line is full, before beginning with the next line. The "U" direction arranges the pages in columns from top to bottom until the column is full, before beginning with the next column.

## **Document Server**

If the corresponding job is not to be printed directly but sent to the plotter's document server, activate the function with "on". Your job can contain several drawings and depends on how much memory is available in your plotter's document server. Consult your plotter manual for details if necessary. Adjust the following settings:

- **File Name**

Give an unequivocal file name to the job being sent to the document server.

- **User Name**

Also give the job a user name. This additional information is particularly useful if several users send jobs to the document server.

- **Password**

If you only want your job to be printed on the plotter by you, you can protect it with a password. To do so, click on the "Change" button and enter your password twice. As soon as the plotter selects the print command for the corresponding job, the plotter will demand the password stated here.

## "Default" settings area

The following chapters explain which default settings you can set for the entries. The default settings only apply for new entries to be added. The previous settings apply for the older entries.

## "Default Specific" tab

On the "Default specific" tab you enter the basic setting for all new entries of a job.

The screenshot displays the 'Default Specific' tab of the Job Editor. On the left, there's a 'Job:' section with buttons for 'Job', 'Default', and 'Entry'. Below it, the 'Entries:' list shows '(01):Color Wheel' selected. The main area is divided into two tabs: 'Default Specific' (active) and 'Default Additional'. The 'Default Specific' tab contains several settings:
 

- Formats:** A dropdown menu set to 'Original'. Below it are input fields for 'Width (mm)' and 'Height (mm)', both currently empty. A checkbox 'Maintain ratio' is checked, with a value of '1' next to it.
- Media Type and Position:** Two dropdown menus. The first is set to 'don't care' and the second to 'auto'.
- Cut Mode:** A checkbox 'Format' is checked.
- Copies:** A numeric input field set to '1'.
- Title Block:** A checkbox is present, accompanied by a small icon of a document with a question mark.
- Rotate:** A radio button 'Auto' is selected. Other options are '0', '90', '180', and '270'.
- Border:** A checkbox 'On' is unchecked. A 'Same as top' button is visible. Below it are input fields for 'Top', 'Left', 'Right', and 'Bottom', all set to '0.00'.
- Media Source:** A dropdown menu set to 'auto'.
- Invert:** A checkbox 'On' is unchecked.

- **Formats**

In this section of the tab you select the drawing format, in which the drawing is to be printed. Apart from the "Original", "Window" and "Percent" options, you will also find the drawing for-

mats, which are the usual standards in Germany, all Europe and in the USA: ISO A/B/C, ANSI A-E and ARC A-E.

In the format setting "Original" the program obtains the format size from the original file of the drawing. This is the presetting.

If you use the format setting "Window", you can freely set the values for the format width and format height, whereby the style sheet is set by the window value. The freely settable settings refer both to the alignment as well as the format size and the format margin:

Scale DX	format width
Scale DY	format height

If you want to scale the drawing smaller, set the format to "percent". In this case the "Scaling" input field becomes active and you can enter a value between 1.00 and 999.00.

If you choose one of the standard formats ISO, ANSI or ARC, you can accept the dimensions or freely change them according to your requirements:

You can use the "Window", if you set a standard format e.g. ISO A0 and want to extend the format width and format height. First set the required format and then click in "Window". You can now change the "Scale DX" and "Scale DY" values to meet your requirements.

The value  $x$  in the "Maintain ratio" window represents the side proportions "width =  $x \cdot$  height ". If you activate the "Maintain ratio" option, you can only alter the values above it for the width, i.e. the Scale DX. The Scale DY, or height is then adjusted automatically, i.e. the drawing is scaled proportionally. This can be useful e.g. if you know that the printout of a drawing is too large for the paper size available. In this case, activate the "Maintain ratio" option and reduce the value slightly, to obtain a proportionally correct printout. The "Maintain ratio" option is already activated as a standard setting.

- **Scaling**

The X-scaling input field only becomes active if you have selected the "Percent" format. Thus you can print off the drawing in a free format of 1.00 % to 999.00 % of the original. The Scale



DY input field is automatically filled with the value of the Scale DX, if you have activated the "Maintain ratio" option. If you then want to enter the Scale DY value independently, you must deactivate the "Maintain ratio" option. In this case, you must consider that the drawing will be distorted.

- **Media type and position**

Use this menu to select which type of media the drawing is to be printed on: Don't care, Paper, Translucent or Film. The selection depends on what roll of medium you have fed in the plotter. The "Position" field is used to set the symbolic position on the paper if the image is to be printed on a larger paper format. E.g. if you have a ISO A4 drawing, which is printed in original size on ISO A1, you can fix here where the drawing is to be positioned on the larger sheet.

- **Cut Mode**

The selection available is "Format". If you don't activate "Format", the plotter cuts the drawing immediately after the last data has been printed, it means synchronous. This results in optimum paper or medium use, because it produces the smallest amount of waste.

On the other hand, if you want the printout to always be cut to a standard format, no matter how much space remains unprinted, activate "Format". The plotter then always cuts to the next largest format. This can be a disadvantage if e.g. a drawing is only around 0.5 cm larger than a ISO A5 page is printed on a ISO A4 page and thus almost 50 % of the sheet remains unused. The advantage is that some folders require exact formats and you can match them using the "Format" setting.

- **Copies**

You can enter any number of copies between 1 and 999 to be printed by the job .

- **Rotate**

Here you can say whether the drawing is to be rotated or not during plotting. Rotations of 0°, 90°, 180° and 270° are possible. When set to "Auto", RW-480 PLOTBASE rotates automatically if this results in less waste paper

- **Border**

If you want a white border around the drawing, activate the "ON" field and enter the required spacing for all side borders. The current dimensional units are given in the status bar at the bottom of the screen.

- **Media Source**

Here you can select the trays in which the rolls with the different Printing materials (paper, translucent, etc.) are located. They can also have varying widths.

If you select the "Automatic" setting, the plotter chooses the input tray, which matches the format size of the drawing. Should this input tray be empty, the plotter uses the tray (roll) with the next largest format.

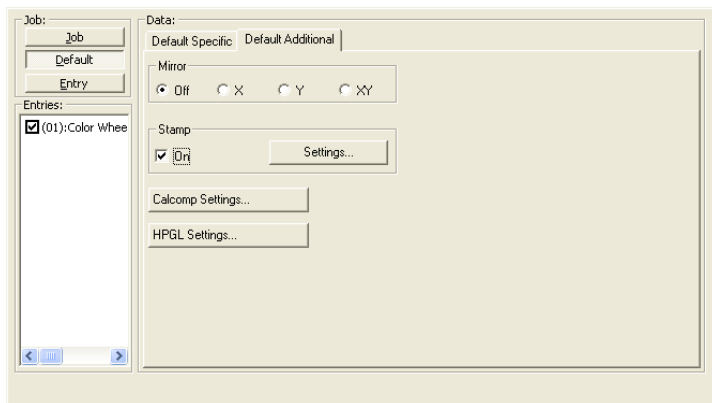
- **Invert**

If you activate this option, the drawing is inverted, i.e. black and white colors are swapped.

## "Default Additional" tab

The "Default additional" tab is used to enter mirroring, stamping and pen details.

The stamp editor and the pen settings (Calcomp, HPGL) are each explained in their own chapter. Please read the separate "Stamp editor" section at the end of this Chapter from Page 45 ff. and the separate chapter on "Pen settings" from Page 52 ff.



- **Mirror**

In this area you can set whether the drawing is to be mirrored or not during plotting. The individual fields mean the following:

OFF: The drawing is not mirrored during plotting.

X: The drawing is mirrored horizontally.

Y: The drawing is mirrored vertically.

XY: The drawing is mirrored about both axes simultaneously; equates to a 180° rotation.

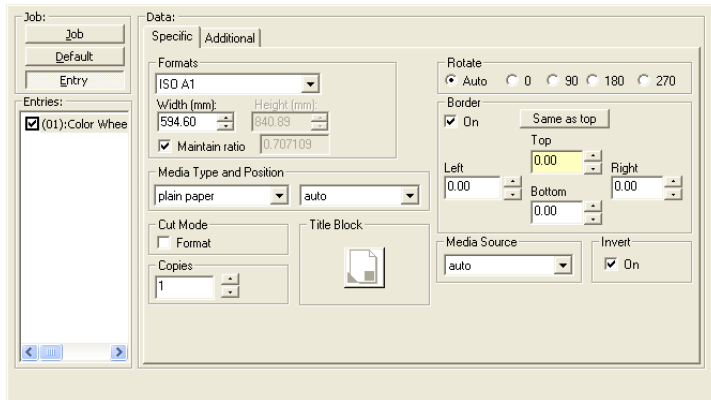
You usually use these settings if the drawing has been scanned and saved with a mirror inversion. This is especially important if a translucence has been scanned with mirror inversion to increase the contrast.

## **"Entry" settings area**

You can read here, which adjustments can be made for an individual entry.

If you want to alter the settings for the individual entries i.e. alter the drawings, you can do this on the two "Specific" and "Additional" tabs, which can be used to make the same adjustments as described in the "Defaults" tabs.

To begin altering the settings of an entry you must mark it in the left-hand entry list. The "Specific" and "Additional" tabs are then opened and can be edited. If you want to change back to the job settings or defaults, click once on the "Job" or "Defaults" button above the entry list.



If you want to make entries in the "Specific" tab, read the information given for the "Default Specific" tab from Page 39.

If you want to alter the settings on the "Additional" tab, read the details for the "Default Additional" given on Page 42.

You can open a tab for the pen settings on the "Additional" tab. To do this, click on the "Pen settings" button. When an entry or a drawing is marked, the program automatically identifies the format and opens the Calcomp or HPGL settings itself. Please read the separate sections on the pen settings for Calcomp pens from Page 62 and the HPGL pens from Page 53.

The main task with RW-480 PLOTCLIENT WIN is to collate plot jobs for RW-480 PLOTBASE. You are free to choose whether you compile a job with one entry or with several entries. The way of compiling jobs will be explained in the separate chapter "Collate jobs" on page 68.

## Stamp editor

The stamp settings can be altered on two levels. To configure a stamp for an individual entry, select the "Additional" tab under "Entry". Now click on the "Settings" button under "Stamp". The same button can be you in the "Defaults" area on the "Extended Defaults " tab. The settings in the "Defaults" area are basic settings, in which the following must always be noted:



**Note:** Changes to the basic settings always only apply to new entries that are added. Entries already included in a job retain their settings.

In stamp editor you have two tabs in which you can alter settings. These are the "Settings" and "Data" tabs. You can define as many stamps as you like per drawing.

## Make stamp

This chapter describes how you can name and save new stamps.

Proceed as follows to configure a new stamp:

1. The first stamp entry is preliminarily named "000". Click on the following symbol to edit the stamp name:



2. You can now delete the existing name entry and enter your own name for the first stamp.
3. Now you can either enter your own settings for the stamps, as described in the following chapters or use an existing stamp configuration. To do the latter, click on the "Open" button under "Configurations". Now select a configuration that you have saved previously (read the following chapter "Stamp Configurations") from the file selection. Now save this configuration for the defaults or the entry by clicking on

the button with the same name; i.e. "Save". This configuration is now saved under the marked stamp name in the "Select Stamp" window.

4. You can produce as many stamps as you wish for a drawing. If you now also want to configure an additional new stamp, click on the following button:



5. Enter a name and set the desired configurations, as already described under Step 3.

## Stamp configurations

The stamp settings are usually saved for specific entries. This means that these settings only apply for one entry or a limited number of entries. However, you can also backup a stamp configuration in its own "Stamp File". It can then be used at any time for producing a new stamp, which you would like to use for other entries.

The stamp files have the file extension [\*.stp] and it is advisable that this extension is always retained.

Should you want to call up the configuration, you must use the "Open" button. The "Open", "Save [as]" or overwrite old stamp files steps are the same as those used in general file management.

## Edit or delete stamp

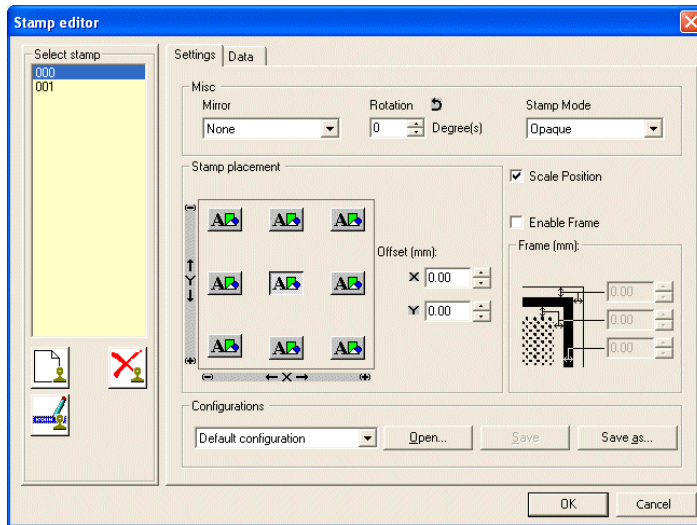
If you want to make changes to the stamp configurations produced, first click on the correct stamp in the "Select stamp" window and then change the settings. If you now change to another stamp or close the window by clicking on "Ok", all the settings are saved.

To delete a stamp, first mark it and then delete it by clicking on the following button:



## "Settings" tab

General details, e.g. on mirroring, rotation, stamp type and stamp position are made in the "settings" tab:



- **Mirror**

The standard orientation of the text is always the reader direction. You can mirror the text here in four ways:

None: The text is not mirrored and is in the reader direction.

X-mirror: The text is mirrored horizontally.

Y-mirror: The text is mirrored vertically.

XY-mirror: The text is mirrored about both axes simultaneously, which equates to a rotation of 180°.

- **Rotation**

The standard orientation of the text is always the reader direction. Here you can alter the text rotation of in 1° steps.

- **Stamp mode**

The standard setting for the type of stamp is always "opaque". There are three possible settings:

- Opaque

The stamp overwrites the area of the drawing beneath it.

- **Translucent**

In the "Translucent" setting the inserted stamp lies "beneath" the existing drawing, which means that parts of the stamp can be overwritten.

- **Inverting**

It is only the "Inverting" setting that allows both the drawing as well as the stamp to be identified in the plot, because the overlapping areas are shown inverted.

- **Stamp placement**

This is where you fix the actual position of the stamp on the drawing. The frame equates to the drawing, so that you can choose from the entries for the nine positions from "top", "centered" to "bottom".

In addition, you can shift this fixed position in the field to the right of it by a valid size unit. You set the currently valid size units for RW-480 PLOTBASE in the configuration program and it is displayed at the bottom of the screen in the status bar.

- **Scale position**

With the "Scale position" you determine whether the stamp always retains its position relative to the edge of the drawing when the size is changed or whether the distance to the edge of the drawing should be scaled too.

- **Frame**

Activate the "Enable frame" field if you want a stamp frame to be printed. Three default settings can be set for the stamp frame. Here too, the settings refer to the currently valid size unit, which you can see in the status bar:

Upper setting - stamp border: With the upper of the three settings you set the distance of the stamp to the edge of the drawing.

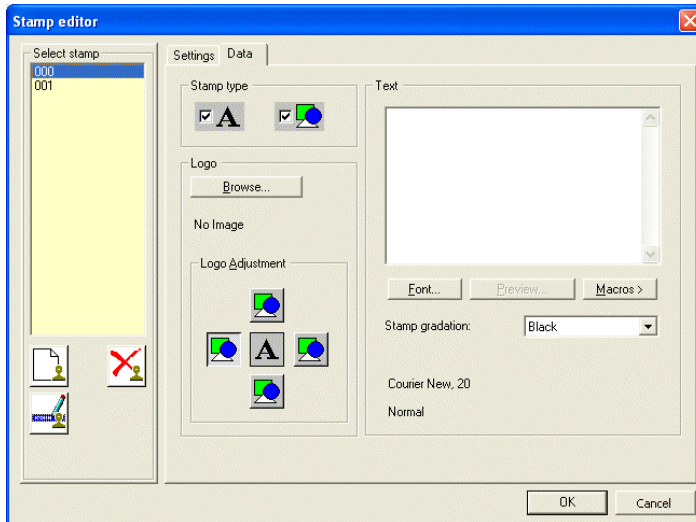
Middle setting – stamp content: The middle setting gives the distance of the stamp content to the stamp frame.

Lower setting: The lower setting is used to fix the thickness of the stamp frame.



## "Data" tab

On the "Data" tab the user specifies the stamp text and logo. You can also change the text and text attributes on this tab or even change the logo:



- **Stamp type**

Before you can begin to enter the settings or change the other fields, you must first select the stamp type, whereby the two symbols are clear: With the "A" you activate the "Text" field, with the colored symbol you let the program know that there is a logo and activate the "Logo orientation" field.

- **Text**

In this text field you can enter the text to be "Printed" with your stamp. In the text field you can edit in the same way as in common word processing programs. Change lines by entering return [ ↵ ], you can jump to the start and end of the rows using the "Home" and "End" keys, and if your text is very long, use the "CTRL + Home" and "CTRL + End" keys to move to the first or last rows respectively..

- **Font**

The "Font" button opens the usual WINDOWS dialogue for the

font attributes. Only the font color setting does not have any effect, because the color is fixed in RW-480 PLOTCLIENT WIN with black.

- **Preview**

Use the "Preview" button if you want to view the stamp again before the final print. In this window you can move the directional arrows to move from side to side and enlarge or reduce the view using "+" and "-". The left-hand mouse button can be used to enlarge a selected area.

However, the preview only applies to the stamp itself and the arrangement of its logo and its text. The preview does not show you the stamp's position on your drawing, which you set on the "settings" tab!

- **Macros**

You can use a macro to enter a text field, which is not filled out until printed. In the preview you can only see the field function. All the file details always refer to the drawing or the entry on which the stamp(s) are printed. The following macros are available:

- Date: With this macro, RW-480 PLOTCLIENT WIN inserts the current date of the print.
- File title: This macro only gives the actual file name of the drawing or of the entry without the path details.
- Count: This macro is suitable if you have lots of drawings or entries with the same stamp text and you want to differentiate between them by numbering them.
- Time: This macro inserts the time the drawing was stamped.
- Server name: This macro inserts the server PC name, where RW-480 PLOTBASE is installed.
- Account: This macro inserts in the stamp the text of the job editor field "Account".
- CreationAppl: This macro gives the name of the application which was used for creating a print job.
- Customer: This macro inserts in the stamp the text of the job editor field "Customer".
- Distribution: This macro inserts in the stamp the text of the job editor field "Distribution".
- Job name: This macro inserts in the stamp the text of the job editor field "Job name".

- Notes: This macro inserts in the stamp the text of the job editor field "Notes".
- User name: The user name gives the user, who carried out the stamp function.

- **Stamp graduation**

The stamps can be printed in four different color graduations: black, dark grey, grey and pale grey. The default setting is black. But the color graduations are only available if you have adjusted the stamp types "opaque" or "transparent".

- **Logo**

Select a graphic using the "Browse" button, which is to appear in the stamp as a logo. For example, your firm's logo. The file formats that can be used are: BMP, Calcomp, CALS, CGM, CIT, EPI, EPS, HPGL, HPGL/2, HPGL-RTL (b/w), PCX, PDF, RW-480 PS, RLC, TG4, T6X and TIFF G4. You can select from four possible positions for the logo relative to the text: above, below, right or left of the text. Select a position by clicking on it.

## Pen settings

You can change the pen settings on two levels. On the one hand in the "Defaults" area of the "Extended defaults " tab and on the other in the "Entry" area on the "Additional" tab. The settings in the "Defaults" area are basic settings, for which the following must always be noted:



**Note:** Changes to the basic settings always only refer to new entries that have been added. Existing entries already in the job retain their settings.

You can only change pen settings if the entry has either a HPGL/2 or Calcomp file format. There are three tabs each for both file formats, on which you can change the settings. These are the "Pens", "Colors" and "General" tabs.

In the "Defaults" settings you must use the separate "Calcomp settings" and "HPGL settings" buttons, because a job can contain several drawings with different formats.

If you alter the settings for an entry, RW-480 PLOTCLIENT WIN immediately identifies the format and automatically opens the respective HPGL or Calcomp tabs via the "Pen settings" button.

## View the changes

RW-480 PLOTCLIENT WIN provides you with an additional function, which allows you to look at the changes to the pen sizes and some of the pen colors before printing in the preview file, if changes have been made to a certain entry. To do this, proceed as follows:

1. Activate the view using the "View – Preview file" menu item.
2. Mark an entry in the entry list.
3. In the job editor change to the "Additional" tab and open the "pen settings".
4. Make your changes.
5. Now change to the "General" tab and activate the pen

source as "user".

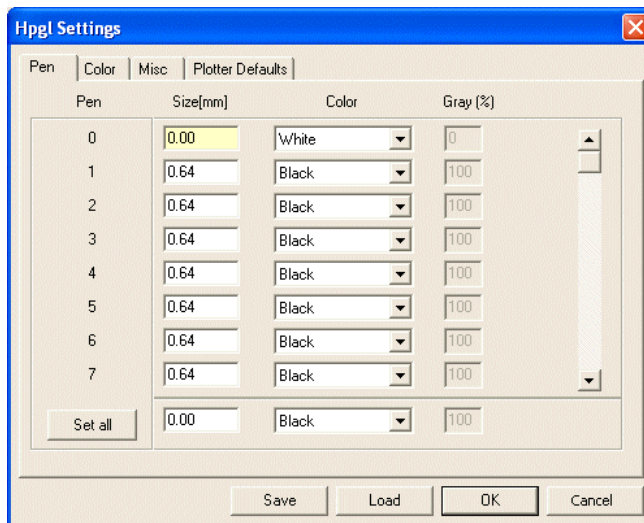
6. Quit the pen settings.
7. Double click on the entry that has just been changed.  
The changes are visible in the file view. You may have to enlarge the view if e.g. the pen widths have only slightly changed.



**Note:** It is possible that if you change colors you will not see any large changes in the preview file, if you only change from 50% gray to 60% gray for gray shades say. Clear changes are e.g. visible if you set the color of all pens to "White", but then you don't have to print the drawing either!

## HPGL/2 - Pens

The pen attributes are set in the "Pen" tab:



- **Pen size**

Enter the pen size directly in the first column under "Size" using the keyboard. The maximum values that you can enter depend on the size unit, which you set in the configuration program. The current valid size unit is given in the status bar at the lower edge of the screen.

If you want to "Switch off" a pen, you can enter the pen widths as "0" or set the pen color as "White".

- **Pen colors**

Select the pen color in the second column under "Color". Click on the arrow to the right of the color setting and drag the mouse to the desired color. If you want to "Switch off" a pen, you can enter the pen color as "White" or the pen widths as "0".

The individual pen color should only be considered as being a "symbolic equivalent" for a gray scale value. Each color is equivalent to a %-value of gray: thus e.g. "yellow" could be represented by 10 %-Gray, "red" with 50 % gray and "blue" with 80 %- gray etc. You can set which gray scale a color represents on the "Color" tab.


If the plotter is definitely to use the pen attributes from the entry's corresponding SSL file, you must activate the "File" field on the "General" tab as the pen and/or color source.

- **Gray (%)**

The gray scale can only be adjusted if you have chosen "Gray" as the color. The changes are also made directly using the keyboard.

- **Set all**

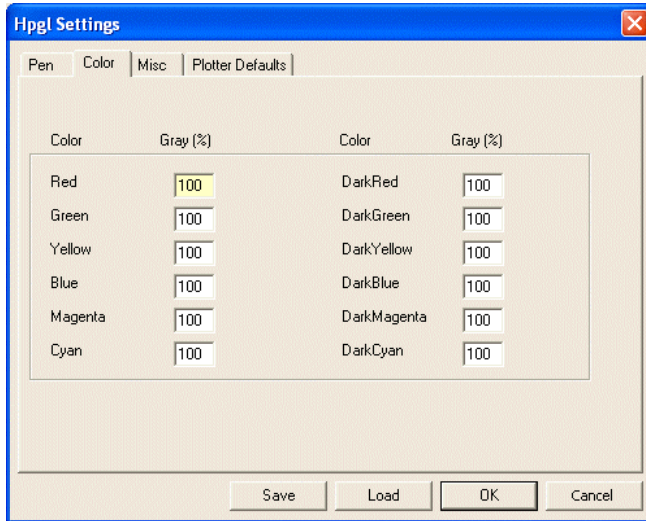
With "Set all" the program offers you a comfortable way of simultaneously setting the attributes for all 256 pens. First set the pen widths, the pen color and the gray scale and then click once on "Set all":



The image shows a graphical user interface element with a light beige background. It contains three main components: a button on the left labeled "Set all", a text input field in the middle containing the value "0.00", and a color selection dropdown on the right showing "Black" with a small downward arrow. To the right of the color dropdown is another text input field containing the value "100".

## HPGL/2 - Colors

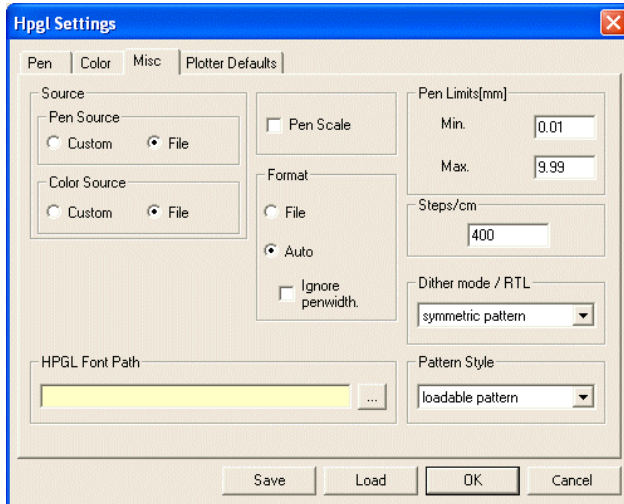
To assign the required gray scale to each of the individual colors, open the "Color" tab:



In this window you can change the gray scale, which has been assigned to each color. If you do not want to change each color, you can set all pens to "Gray" on the "Pen" tab and there you can set the individual gray values for each pen.

You can change the percentage value directly using the keyboard. Click on "OK" to quit the window and your settings are saved. If you do not want to save your changes, quit the window with "Cancel" or "ESC".

## HPGL/2 - Misc



- **Source:**

The following description applies to both pen source and color source.

If you activate "File", the details for pen thickness or pen color are taken from the plot file being printed. If no settings have been adjusted here, the plotter reverts to the standard defaults on the last card "Plotter Defaults".

If you activate "Custom", the printout uses your settings from the first two cards "Pen" and "Color".

- **Pen Scale:**

Activate the check box, if the pen widths are to be scaled with the drawing. To avoid possible loss of information during the printout, you must ensure that you have entered at least one minimum pen width in "Pen settings" if the drawing is to be reduced in size and at least one maximum pen width if the drawing is to be enlarged.

- **Clipping:**

The clipping command removes the white edges on the border of the drawing. Most plotter languages differ from each other in many ways to a greater or lesser extent – including with respect



to the section, which, put simply, refers to the paper size.

This fact means that undesirable printing results are obtained, if a drawing is only printed in sections or in the most unfavorable case a white sheet of paper comes out of the plotter.

The "Clipping" function is considered in the context of the widely used reference plotter "HP DesignJet 1055 / 1055 CM": If you activate the check box, the drawing is printed in exactly the same way as it was printed on the "HP DesignJet" plotter. However, undesirable printing results can result, if the plotter language of your plotter differs greatly from that of the "HP DesignJet".

If you deactivate the function, RW-480 PLOTCLIENT WIN looks for the drawing dimensions itself and thus guarantees that the whole drawing is plotted.

- **Ignore pen width**

You can only activate this option if you have not activated the "clipping" option.

Activate the option, e.g. in case of a drawing that is exactly ISO A4 size to guarantee that it is printed on an A4 sheet and not on a printout with the next format because the pen widths are too large and the A4 format is slightly exceeded, causing unnecessary wastage.

In all cases where a drawing has exactly the same size as a standard formats, you can ensure that this drawing is printed off on this format and thus avoid unnecessary waste paper.

- **Pen Limits (mm)**

- **Min**

Using the keyboard, enter the minimum pen widths. The entry here affects all HPGL pens.

As there are plotters in which even at the finest resolution the individual pixels are not reliably reproduced, a minimum pen size is indispensable in these cases.

Should one of your settings not cover the plotter circumstances and no longer guarantee the printout of a drawing object, RW-480 PLOTCLIENT WIN automatically adjusts the pen widths.

- **Max**

Using the keyboard, enter the maximum pen widths. The entry affects all HPGL pens.

Analog to the problem with the minimum pen widths, you can set the maximum thickness that the pen draws, e.g. to prevent the drawn objects from overlapping when printed. Setting the maximum pen widths on the other hand is less seldom necessary.

Should one of your settings not cover the plotter circumstances and no longer guarantee the printout of a drawing object, RW-480 PLOTCLIENT WIN automatically adjusts the pen widths here too.

- **Steps/cm**

Some time ago, most plotters had stepper motors, which ran at a varying number of steps per centimeter. In the meantime, the standard is 400 steps per centimeter. The RW-480 PLOTCLIENT WIN therefore enters 400 as a default value, which does not normally have to be altered. Nevertheless, it is sometimes advisable to ask the customer what step number per centimeter they are used to working with to guarantee plot consistency. Furthermore, it can be necessary to make a change to reduce the DPI, to release more system memory for large drawings:



**Attention:** If you enter a larger value, you will obtain a smaller drawing: The entry 1 equates to 0.25 %. Example: if you enter 401, the drawing is reduced to 99.75 %.

- **HPGL Font path**

Here you inform the program, in which folder the fonts are to be used when printing HPGL files.

- **Dither mode / RTL**

Grey value patterns for HP-RTL files can be selected here. You can choose between the gray value patterns "Symmetric pattern" or "diffusion pattern". Test them and see which pattern best suits your graphic. To do this, you have to reload the drawing in the preview file after each change.

- **Pattern Style**

You have a choice of four filling patterns to influence a pure vector graphic diagram so that you can produce printouts which are optimized for your plotter type.

"Round" means that a certain colored area is filled with a certain number of filled circles, which are given a certain arrangement on the area, to achieve the intended color saturation.

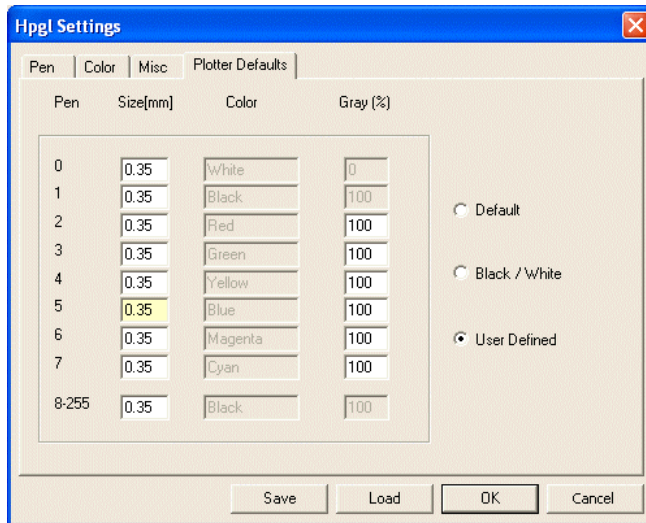
In "Random" on the other hand a percentage of color saturation is determined for the same colored area, which is then converted into the necessary number of pixel, which are randomly arranged over the area to achieve the intended color saturation.

Which is why that when circle patterns are overlapped, the covered areas cannot be as clearly identified as if two random patterns are overlapped. The recommended default setting is therefore "Random", because you can achieve the best results.

As the "Round" setting has been installed as a standard to date, this option has been retained of you do not see the need to print the same drawings differently in future.

In addition, you can also select the gray value patterns "Symmetric pattern" and "Diffusion pattern". As the name suggests, the "Symmetric pattern" produces a symmetrical gray value pattern. If you select the "Diffusion pattern" as the gray value pattern, a pattern is loaded. Try and see which pattern produces the best printing results.

## HPGL/2 - Plotter Defaults



These settings are the standard defaults or plotter defaults. They are only used if you have activated the setting "File" on the card "Misc" in the sections "Pen source" and "Color source" but there are no details for pen thickness and pen color in the corresponding plot file!

If instead of these presets you want to use special settings for your current print orders, instead of "File" you must activate "Custom" at this point, where you can then adjust your individual settings on the cards "Pen" and "Color".

The settings have the following meanings:

- **Default**

If you activate "Default", the plotter uses the settings stipulated here for the printout. They correspond to the standard values of an HP DesignJet 1055 and cannot be changed.

- **Black / White**

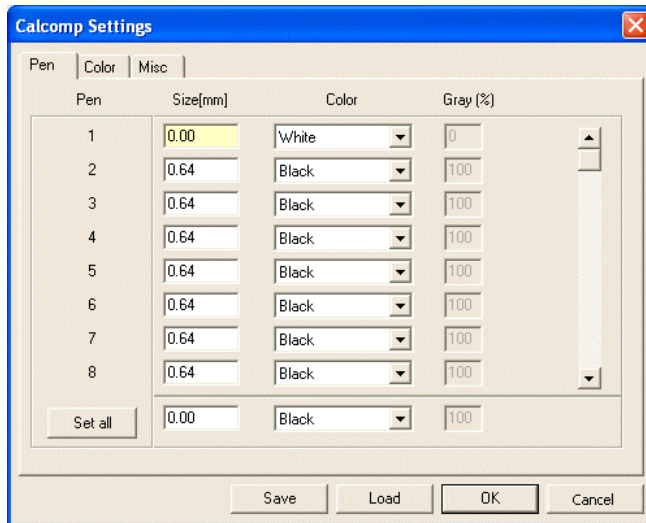
The printout is produced in black-and-white. Any possible grey shades are ignored. But the pen size can be changed.

- **User Defined**

You can change the pen thickness and the grey shades, apart from the black and white pens: these settings are saved as pre-sets.

## Calcomp - Pens

The pen attributes are set on the "Pen" tab:



- **Pen size**

The pen sizes are entered directly using the keyboard in the first column under "Size". The maximum values that can be entered depend on the size unit, which you set in the configuration program. The current valid size unit is shown in the status bar at the bottom of the screen.

If you want to "remove" a pen, you can set the pen widths as "0" or as the pen color "White".

The standard values for the pen widths of the 16 Calcomp pens are given in the technical manual (Chapter "Calcomp commands and pens").

- **Pen color**

Select the pen color from the second column under "Color". Open the pull down menu and select the required color. If you want to "remove" a pen, you can set the pen color as "White" or the pen widths as "0". You can set the gray shade that a color represents on the "Colors" tab.

- **Gray (%)**

The gray scale value can only be adjusted if you have selected "Gray" as the color. Here too the changes are made directly using the keyboard.

- **Set all**

The "Set all" option allows you to set the pen attributes for all 16 pens simultaneously. To do this, first set the pen widths, the pen color and the gray scale value and then click once on "Set all":

## Calcomp - Colors

To assign the required gray scale value to each individual color, open the "Color" tab:

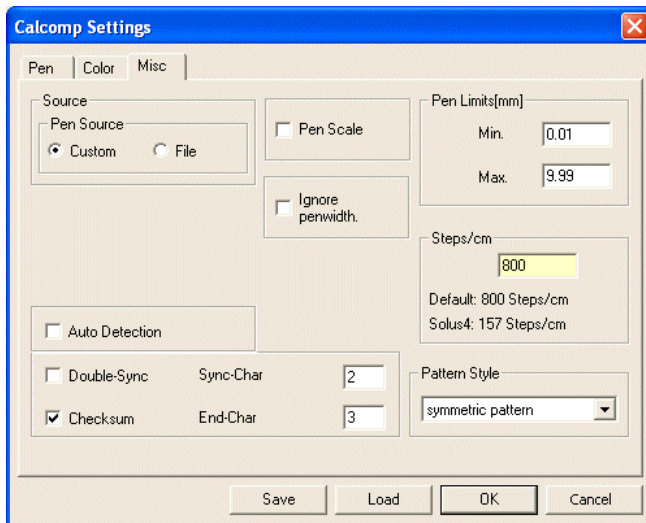
Color	Gray (%)	Color	Gray (%)
Red	100	DarkRed	100
Green	100	DarkGreen	100
Yellow	100	DarkYellow	100
Blue	100	DarkBlue	100
Magenta	100	DarkMagenta	100
Cyan	100	DarkCyan	100

The change to the percentage figure is made directly using the keyboard. Quit the window with "OK" and your changes will be saved. If you do not wish to save your changes, quit the window with "Cancel" or "ESC".

In this window you can change the gray scale value, which has

been assigned to each color. If you do not want to change each color, you can set all pens to "Gray" on the "Pens" tab and then set the individual gray values for each pen.

## Calcomp - Misc



- **Pen Source**

If you activate the field "File", you tell the plotter that the printout should use the pen thickness entered in the plot file belonging to the entry, and not the settings on the card "Pen". If no pen widths are defined, the program uses your settings.

If you activate "Custom" your settings are always used.

- **Pen Scale**

Activate this field if the pen widths are to be scaled at the same time as a drawing is scaled. To avoid the possible loss of information when printed ensure that have set at least one minimum pen width if the drawing is to be reduced in size and at least one maximum pen width, if the drawing is to be enlarged by scaling.

- **Ignore pen widths**

Activate this option, e.g. if a drawing is exactly the same size as



a ISO A4 sheet, to guarantee that it is plotted on an A4 sheet and not on the next larger format because the pen widths were too large causing the drawing to slightly exceed the A4 format, thereby causing unnecessary waste paper.

In this way, you can ensure that a drawing that has exactly the same size as a standard format is printed on this size paper thereby avoiding an unnecessary waste of paper.

- **Pen Limits (mm)**

- **Min**

Enter the minimum pen widths using the keyboard. The information entered here affects all Calcomp pens.

As there are plotters in which even at the finest resolution the individual pixels are not reliably reproduced, a minimum pen size is indispensable in these cases. Should one of your settings not cover the plotter circumstances and no longer guarantee the printout of a drawing object, RW-480 PLOTCLIENT WIN automatically adjusts the pen widths.

- **Max**

Using the keyboard, enter the maximum pen widths. The entry affects all Calcomp pens.

Analog to the problem with the minimum pen widths, you can set the maximum thickness that the pen draws, e.g. to prevent the drawn objects from overlapping when printed. Setting the maximum pen widths on the other hand is less seldom necessary. Should one of your settings not cover the plotter circumstances and no longer guarantee the printout of a drawing object, RW-480 PLOTCLIENT WIN automatically adjusts the pen widths.

- **Step size/cm**

Some time ago, most plotters had stepper motors, which ran at a varying number of steps per centimeter. In the meantime, the standard is 800 steps per centimeter. The RW-480 PLOTCLIENT WIN therefore enters 800 as a default value, which does not normally have to be altered. Nevertheless, it is sometimes advisable to ask the customer what step number per centimeter they are used to working with to guarantee plot consistency. Furthermore, it can be necessary to make a change to reduce the DPI, to release more system memory for large drawings:



**Attention:** If you enter a larger value, you will obtain a smaller drawing: The entry 1 equates to 0.125 %. Example: if you enter 801, the drawing is reduced to 99.875 %.

- **Pattern Style**

Three types of patterns are defined for Calcomp drawings, in which the "Pattern" command is used.

"Round" means that a certain colored area is filled with a certain number of filled circles, which are given a certain arrangement on the area, to achieve an intended color saturation.

In "Random" on the other hand a percentage of color saturation is determined for the same colored area, which is then converted into the necessary number of pixels, which are randomly arranged over the area to achieve the intended color saturation. Which is why that when circle patterns are overlapped, the covered areas cannot be as clearly identified as if two random patterns are overlapped. The recommended default setting is therefore "Random", because you can achieve the best results.

Finally, you can also select the gray value pattern "Symmetric pattern". As the name suggests, the "Symmetric pattern" produces a symmetrical gray value pattern. Try and see which pattern produces the best printing results for your graphic. To do this you must reload the drawing in preview file after each change.

- **Synchronization**

Synchronization is used to check the completeness of the Calcomp files, which have been sent from the application program. Four pieces of information are used for the synchronization settings:

- Sync character
- End character
- Double Sync
- Test sum

You can either let RW-480 PLOTCLIENT WIN determine the values or you can enter the necessary settings yourself. If the pro-

gram is to determine the values, activate "Auto detection".

We recommend that you do not alter the standard values if you want to enter the settings yourself. Should you nevertheless want to make a change or to find out more on the topic, compare the settings with those in your CAD system or read the following section in the "Calcomp Inc." manual:

"CALCOMP - ONLINE REFERENCE MANUAL" in the section "Data Message Format".

The standard settings are:

Sync character:	2	→ [setting from 0 to 127 possible]
End character:	0	→ [setting from 0 to 31 possible]
Double Sync:	OFF	
Test sum:	OFF	

The following two examples serve as possible comparisons:

- **AutoCAD:**

Sync character:	22
End character:	13
Double Sync:	ON
Test sum:	ON

- **FordCAD:**

Sync character:	2
End character:	3
Double Sync:	OFF
Test sum:	ON

## Collate jobs

Your main task with RW-480 PLOTCLIENT WIN is to collate [Plot-] jobs for RW-480 PLOTBASE. You are free to choose whether you compile a job with one entry or with several entries. You can prepare fully new jobs or open existing jobs and add further entries.

To collate a new job you must proceed as follows:

1. Open a new job, either via the menu item "File – New" or by clicking once on the relevant button:



2. Assign a name to your new job.



**Attention:** The extension "\*.ssl" must be retained, so as to guarantee that RW-480 PLOTBASE can recognize the job.

3. Now you add new entries to the job. You have three possible options for adding an entry. Refer to the following section "Add entries".
4. As soon as you have included all the entries in the job, you begin to enter the settings, which RW-480 PLOTBASE needs to be able to print off the job as required. Please refer to the chapter "Job editor" from Page 33.
5. Finally, send the job to RW-480 PLOTBASE by either selecting the menu item "File - Print SSL" or by clicking on the relevant button:



## Add entries

Newly inserted entries can have the following file formats, which are identified by RW-480 PLOTCLIENT WIN from the file extension:

- Calcomp [\*.906, \*.907]
- CALS MIL-STD 1840B,28002A [\*.cal]
- DWF [\*.dwf]
- DWG [\*.dwg]
- DXF [\*.dxf]
- HPGL/2, HP-RTL [\*.plt, \*.rtl]
- Intergraph [\*.cit, \*.tg4]
- PCX [\*.pcx]
- RLC [\*.rlc]
- TIFF G4 [\*.tif]
- Windows Metafile [\*.wmf]
- Windows OS/2 Bitmap [\*.bmp]

The file formats CGM [\*.cgm] as well as PDF and postscript, i.e. RW-480 Postscript Level 3 Compatible Option [\*.pdf, \*.ps] are available as an optional feature. The file format DWF/DWG/DXF can only be used if you have installed a full version from AutoCAD series 2000 to 2006.



**Note:** RW-480 PLOTBASE cannot print DWG and DXF files, that contain several single files.

## Add with button

To add an entry with the help of the button, proceed as follows:

1. Mark an entry in the entry list, before or after the place where the new entry is to be inserted.  
If you do mark an entry, new entries are always inserted at the end of the list.
2. Click on the relevant button on the Entry toolbar. If the new entry is to be inserted after the marked entry, click on:



If the new entry is to be inserted in front of the marked entry, click on:

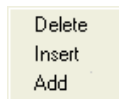


3. Select the required file, which has one of the above file formats and confirm with "OK". You can now mark several files to insert lots of drawings in one go, as in the File Manager.

### **Add using the right-hand mouse button**

To add an entry using the right-hand mouse button, proceed as follows:

1. Mark an entry in the entry list before or after which the new entry is to be inserted.  
If you do mark an entry, new entries are always inserted at the end of the list.
2. Keep the mouse cursor on the entry list and click the right-hand mouse button:



3. If the new entry is to be inserted in front of the marked entry, select "Insert". If the new entry is to be inserted after it, choose "Add".  
The program opens a file selection window.
4. Select the required file, which has one of the above file formats and confirm with "OK". As in Windows Explorer, you can now mark several files to insert lots of drawings in one go.

### **Add with menu item**

To add an entry with menu item, proceed as follows:

1. Mark an entry in the entry list, before or after the place where the new entry is to be inserted.  
If you do mark an entry, new entries are always inserted at the end of the list.

2. Select the relevant menu item from the "Edit" menu. If the new entry is to be inserted after the marked entry, select:

Edit – add entry...

If the new entry is to be inserted in front of the marked entry, select:

Edit – insert entry...

The program opens a file selection window.

3. Select the required file, which has one of the above file formats and confirm with "OK". You can now mark several files to insert lots of drawings in one go, as in the File Manager.

### **Add with Drag & Drop**

To add an entry using Drag & Drop, proceed as follows:

1. Open Windows Explorer and arrange the two windows of RW-480 PLOTCLIENT WIN and Explorer so that they are positioned next to each other or on top of each other.
2. Mark an entry in the entry list of RW-480 PLOTCLIENT WIN, after which the new entry is to be inserted.  
If you want to insert a new entry in front of an existing entry, mark the entry in the entry list before the existing entry!  
If you do not mark any entry, new entries will always be inserted at the end of the list.
3. Change to the folder in Explorer from which you want to fetch the new entry.
4. Click on the required file with the left-hand mouse button and holding the mouse button pressed down, drag the file to the file list of RW-480 PLOTCLIENT WIN. You can also add several drawings in one go as in Explorer by marking several files.

## Add multiple entries

Sometimes, a customer job order is such that an entry has to be printed several times with different settings: e.g. if an entry is to be plotted once with A0 format on paper and the second time with A1 format on a translucence. To do this, you can also add an entry several times.

However, the program only physically inserts an entry once and if you add an entry several times, it simply sets a reference to the first entry.

Example: You insert the file "ABC.tif". This file is to be printed in format A0. For the second print out in format A1, insert the file "ABC.tif" a second time. At this moment, RW-480 PLOTCLIENT WIN recognizes that there is already a file with the same name in the entry list and only sets a reference to the already inserted file.

This approach of the program has two particular advantages for you. On the one hand it saves space on your harddrive, is the files are very large and on the other hand, you cannot inadvertently insert a file with the same name but different content.

## Delete entries

If you want to delete an entry from the list, use one of the two following possible methods

1. Mark the entry in the entry list that you want to delete and select the menu item "Edit – Delete entry".
2. Mark the entry to be deleted and click on the following button once:



To delete several entries you can also use the multiple selection of entries. When selecting several entries in the entry list to delete, proceed exactly as before, as you are used to from Windows Explorer: Either click with the mouse on an entry and drag the mouse cursor down to the last entry to be deleted and while



keeping the mouse key depressed, where the entries to be deleted are listed one after the other or use the SHIFT – key. To mark several entries that are not listed one after the other, use the Ctrl Key, as in Explorer.

After you have inserted or appended the entries, adjust the settings for the jobs and individual entries in the job editor.

## Entry information

Before you can begin with a possible change to the settings, you can view a summary of all the currently loaded settings.

Click on the white "i" for information display in the "View" toolbar:



For most file formats you can only see the "Misc" tab. It contains e.g. the information about the file format, the drawing size and used pens. If you open a HPGL- or Calcomp drawing, you can read on this tab information about general settings ("Pen Source", "Pen Scale", "Pattern Style" etc.) which you can change in the job editor.

The tabs "Drawing" and "Pens" appear only, if you open an HPGL- or a Calcomp drawing file. On the tab "drawing" you get the information about the file format, the drawing size, the used colors etc.. The tab "Pens" informs you of the pen settings. There can also be two symbols which inform you of the setting status: The red exclamation marks point out that the pen is used with several pen sizes and only the last set pen size can be shown. The green check shows, that a pen is used for the current drawing.

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## **Part II – RW-480 WINPRINT**

## Introduction

The Windows printer driver RW-480 WINPRINT allows print jobs to be recorded from Windows applications, to then pass them directly to RW-480 PLOTBASE as a plot job.

So you use your printer driver RW-480 WINPRINT as any other printer via your Windows application menus "File – Print".

The RW-480 WINPRINT will be installed on the server PC where the server software RW-480 PLOTBASE is running. On your client PC you only have to share via network this printer driver on the server PC.

No matter, if you send your print job from a 16 bit (Windows 95/98/ME) or 32 bit (Windows NT 4.0 / Windows 2000 / Windows XP) operating system, the RW-480 WINPRINT is able to manage your print job and will send it directly to RW-480 PLOTBASE.

## Installation

Before you can use the RW-480 WINPRINT, you have to install it on your client PC as a "network printer", as you have already done with every in-house network printer on your PC before.

To install RW-480 WINPRINT as network printer, please proceed as follows:

1. Open "Printers" window via "Start – Settings – Printers".
2. Open "Add Printer" and click on "Next".
3. Choose "Network Printer" and click on "Next".
4. Type printer name including complete network path of the server PC, where RW-480 PLOTBASE is running or click "Next" to browse in your in-house network.
5. Search for the server PC and choose RW-480 WINPRINT.
6. Choose RW-480 WINPRINT as standard printer or not and finish installation.

Now you can choose the RW-480 WINPRINT from your Windows application menu "File – Print".

In the next chapter you will read about how to configure the printer parameters.

## Configuration

This section describes the set up of the print parameters. After entering these settings, your RW-480 WINPRINT printer driver is ready for printing.

The following chapters only differ in the user interfaces that depend on the different operating systems. Nevertheless it will be the same RW-480 WINPRINT for all operating systems. There are only internal differences between the described RW-480 WINPRINT (16 bit operating systems) and RW-480 WINPRINT (32 bit operating systems).

### Print Parameters of RW-480 WINPRINT (16 bit)

This section describes the settings of the print parameters on client PCs with following 16 bit operating systems:

- Windows 95
- Windows 98
- Windows 98 SE
- Windows ME

As soon as you have installed RW-480 WINPRINT as a "network printer" on your client PC, you can now send a print out from a Windows program to RW-480 PLOTBASE. First you must determine several settings for the print out. In the "Print" menu of your Windows application first select the RW-480 WINPRINT from the list field and then click on the "Properties" button. You can set the print parameters for RW-480 WINPRINT ( 16 bit ) on two tabs:

- General Settings
- Job Processing

#### "General Settings" tab

- **Media Source**

You can select one of the plotter rolls offered. In addition, you can also choose the "automatic" or "bypass" options. The "automatic" option means that the plotter itself selects a suitable roll, which corresponds to the given format. The "bypass" option means that you feed the print medium in the input tray yourself.



**Note:** If you choose the "bypass" option, please note, that the format has to match with minimum size 182mm x 149mm.

- **Output**

You have two possibilities for the output of your printouts on plotter RW-480: upper and lower. The standard setting is output at the top.

- **Paper Size**

In this section of the tab you select the drawing format, to be used for printing the drawing. You will find the drawing formats: ISO A/B/C, ANSI A-E and ARC A-E.

- **Media Type**

In the lower part of the window select what type of medium is to be used for the print: Paper, Translucent, Film or Recycled paper. The selection depends on what you have loaded your plotter with.

- **Orientation**

You can choose between portrait and landscape.

- **Quality**

In this version there are hardly effects on the print out. We recommend to use "Production" as standard setting.

- **Dithering**

This is where you enter the settings that influence the print out with respect to the gray tones. In a black & white print out the gray tones are represented by different sized dots and different sized spacings too, so that the viewer from a distance has the impression of gray tones. This technique is called "Dithering". You have several options for the setting. Error diffusion e.g. is suitable for photos or photo-line prints. However, overall we recommend that you find the optimum settings for your work using test plots as it is not possible to give a definitive recommendation.

- **Intensity**

Set the brightness of the print here.

## "Job Processing" tab

- **Sample Print**

Activate this option, if you wish to test the quality of a print. Only the first set of copies is printed. The print out of further sets of copies is stopped so that you can check the quality of the print. So you will go to the server and plot it. Then you decide whether to continue or to cancel the plot according to message display.

- **Delete after Plot**

If you activate this option, the job is deleted after printing.

- **Locked Print**

By confirming the "Options" button, a dialog is displayed in which the user is requested to enter a password twice. After this, the print out can only be started at the server RW-480 PLOTBASE, if the correct password has been entered.

- **Page Order**

Here you can choose from three options of pages to be printed – standard, reverse, auto:

**standard:** The set entries are printed out in the order they are shown in the job editor ( 1, 2, 3 ... ). The order of the sheets in the resulting stack depends on the selected output tray: If the "upper" tray is selected, the order of the sheets in the stack is the same as the print order: 1, 2, 3, 4 ... If the "lower" tray is selected, the order of the sheets in the stack is reversed: ... 4, 3, 2, 1.

**reverse:** The set entries are printed out in reverse order ( ... 4, 3, 2, 1 ). The order of the sheets in the resulting stack depends on the selected output tray: If the "upper" tray is selected, the order of the sheets in the stack is the same as the print order: ... 4, 3, 2, 1 If the "lower" tray is selected, the order of the sheets in the stack is reversed again. The result is the original: 1, 2, 3, 4 ...

**auto:** The print order depends on the selected tray. The order of the sheets in the resulting stack does not depend on the selected output tray. It is forward ( 1, 2, 3, 4, ... ) in case of tray "upper" and in case of tray "lower".

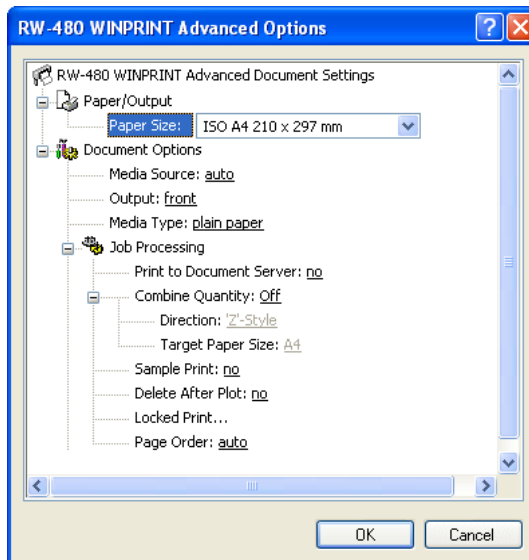


## Print Parameters of RW-480 WINPRINT (32 bit)

This section describes the settings of the print parameters on client PCs with following 32 bit operating systems:

- Windows NT 4.0
- Windows 2000
- Windows XP

As soon as you have installed RW-480 WINPRINT as a "network printer" on your client PC, you can now send a print out from a Windows program to RW-480 PLOTBASE. First you must determine several settings for the print out. In the "Print" menu of your Windows application first select the RW-480 WINPRINT from the list field and then click on the "Properties" button. The following window opens:



All the settings categories are listed in the upper section. If you wish to specify a more precise setting, choose one of the categories. The actual setting options then appear in the lower section. You have the following setting options:

- **Paper size**

In this section of the tab you select the drawing format, to be used for printing the drawing. You will find the drawing formats: ISO A/B/C, ANSI A-E and ARC A-E.

- **[Paper Size] Manage**

Press the button "Manage" to go to the dialogue for individual management of the formats. On the left you will see all available formats, and on the right the buttons for your individual settings. On the right you can use the button "New" to adjust up to eight individual formats including name and allocation of the units of measurement.

You can remove your own individual formats from the format list again by pressing the button "Delete". You can only delete your individual formats but not the standard default formats.

The eight buttons under "Select/Deselect" can be used to adjust additional features, for example whether you want to see "All ISO" formats or "No ISO" formats. The advantage of this is that it makes the list of formats under "Paper size" more manageable so that you can select the required formats more quickly.

- **Media Source**

You can select one of the three plotter rolls offered. In addition, you can also choose the "auto" or "bypass tray" options. The "auto" option means that the plotter itself selects a suitable roll, which corresponds to the given format. The "bypass tray" option means that you feed the print medium in the input tray yourself.



**Note:** If you choose the "bypass" option, please note, that the format has to match with minimum size 182mm x 149mm.

- **Output**

You have two possibilities for the output of your printouts on plotter RW-480: upper and lower. The standard setting is output at the top.

- **Media Type**

In the lower part of the window select what type of medium is to

be used for the print: Paper, Translucent, film or recycled paper. The selection depends on what you have loaded your plotter with.

- **Print to Document Server**

The "Document Server" is a memory unit in the plotter where RW-480 WINPRINT can send one or several documents for later printout:

**File Name**

Give an unequivocal file name to the job being sent to the document server.

**User Name**

Also give the job a user name. This additional information is particularly useful if several users send jobs to the document server.

**Password**

If you only want your job to be printed on the plotter by you, you can protect it with a password. To do so, enter your password twice. As soon as the plotter selects the print command for the corresponding job, the plotter will demand the password stated here.

- **Combine**

"Combine" refers to grouping together drawings for joint print-out on one single sheet. In this way, you can have up to 16 drawings printed out on one single sheet:

**Quantity**

Adjust how many pages you want to print on the sheet. There is a choice of 2, 4, 8 or 16 pages.

**Paper Size**

Enter the size of the sheet of paper where the individual pages are to be printed together.

**Direction**

Finally, indicate the order for printing the individual pages on the sheet. The "Z" direction prints the pages line by line arranged from left to right until the line is full, before beginning with the next line. The "I" direction arranges the pages in columns from top to bottom until the column is full, before beginning with the next column.

- **Sample Print**

Activate this option, if you wish to test the quality of a print. Only the first set of copies is printed. The print out of further sets of copies is stopped so that you can check the quality of the print. You are then asked, whether you wish to continue or abort the plot.

- **Delete after Plot**

If you activate this option, the job is deleted after printing.

- **Locked Print**

By confirming the "Properties" button, a dialog is displayed in which the user is requested to enter a password twice. After this, the print out can only be started at the server RW-480 PLOTBASE, if the correct password has been entered.

- **Page Order**

Here you can choose from three options of pages to be printed – standard, reverse, auto:

**standard:** The set entries are printed out in the order they are shown in the job editor ( 1, 2, 3 ... ). The order of the sheets in the resulting stack depends on the selected output tray: If the "upper" tray is selected, the order of the sheets in the stack is the same as the print order: 1, 2, 3, 4 ... If the "lower" tray is selected, the order of the sheets in the stack is reversed: ... 4, 3, 2, 1.

**reverse:** The set entries are printed out in reverse order ( ... 4, 3, 2, 1 ). The order of the sheets in the resulting stack depends on the selected output tray: If the "upper" tray is selected, the order of the sheets in the stack is the same as the print order: ... 4, 3, 2, 1 If the "lower" tray is selected, the order of the sheets in the stack is reversed again. The result is the original: 1, 2, 3, 4 ...

**auto:** The print order depends on the selected tray. The order of the sheets in the resulting stack does not depend on the selected output tray. It is forward ( 1, 2, 3, 4, ... ) in case of tray "upper" and in case of tray "lower".

- **Color adjustment for raster images**

More detailed information on using this module is available in the context sensitive Help. Click on the question mark in the head of the row. The mouse cursor changes into a question

mark. Now click on the function to which you have a question with the left-hand mouse key. A small popup window opens with information.

After you have altered all the settings, close all the windows with "OK" and start the printing process.

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## **Part III – RW-480 PLOTCLIENT HDI/ADI**

## Introduction

RW-480 PLOTCLIENT HDI/ADI produces HPGL/2-files from the drawings and documents, which have been produced in the AutoCAD programs AutoCAD R13, AutoCAD R14, AutoCAD 2000, AutoCAD 2000i, AutoCAD LT 2000, AutoCAD Lti 2000, AutoCAD 2002, AutoCAD LT 2002, AutoCAD 2004, AutoCAD LT 2004, AutoCAD 2005, AutoCAD LT 2005 or AutoCAD 2006. The print jobs can be sent to the RW-480 PLOTCLIENT WIN program or directly to the RW-480 PLOTBASE server program. Further settings can be made there, before the print jobs are sent to the RW-480 plotter.

In the following, the installation is described first. The configuration options for your print jobs are explained in the following chapter.

## Installation

The installation of the program is carried out on a workstation, on which an AutoCAD program is installed. You will find the installation program in the shared "tools" folder of RW-480 PLOTBASE:

\\[ServerPC]\tools\RW\_480\_PLOTCLIENT\_HDI\_ADI

1. For installation, start Windows as user with administrator rights and open Windows Explorer.
2. If Windows has already been started with administrator rights, quit all active programs resp. do a data backup.
3. Go via the network to the installation directory \\[ServerPC]\tools\RW\_480\_PLOTCLIENT\_HDI\_ADI.
4. Start the file "Setup.exe".
5. In the "Welcome" dialogue, click on "Next".
6. Click on "I accept ..." if you accept the licence agreements. Click on "I reject" if you do not accept and want to stop installation.
7. Read the information about the program and click on "Next".
8. Choose the setup type that you prefer and click on "Next". If you have chosen the option "Complete", continue with point 10, otherwise continue with the next point.
9. If you have chosen the setup option "Custom", the next window will ask you to install the Configuration tool, if you use AutoCAD 13 or 14. Click on "Next" to start this intermediate installation.
10. If you want to keep your previous installation settings, click on "install" now to install RW-480 PLOTCLIENT HDI/ADI. RW-480 PLOTCLIENT HDI/ADI is installed now.
11. As soon as the installation has finished, click on "Finish".

The next chapter describes installation of the HPGL/2 plotter.



## Installation of the HPGL/2 plotter

Before using PLOTCLIENT HDI/ADI with AutoCAD 13/14, an HPGL/2 plotter [HP DesignJet 1055 CM] has to be installed. This installation is described in the two sections below.

### Installation in AutoCAD 13

1. Start AutoCAD 13 and open the configuration dialogue under the menu point "Options – Configure".
2. Press "Return" once.
3. Choose option 5 "Configure Plotter" and press "Return" to confirm.
4. Choose option 1 "Add A Plotter Configuration" and press "Return" to confirm.
5. Choose option 11 "HP-GL/2 Device" and press "Return" to confirm.
6. Choose option 1 "HP DesignJet 1055 CM" and press "Return" to confirm.
7. Press "Return" once.
8. Choose the option "Parallel Port" and press "Return" to confirm.
9. Press "Return" to confirm the port name.
10. Confirm your changes in the next step with "Yes".
11. Answer the question about changing the parameters with "No".
12. Answer the question about calibrating the printer with "No".
13. Answer the question "Write The Plot In A File" with "Yes".
14. Choose the required unit of measurement and press "Return" to confirm.
15. Press "Return" to confirm the defaults in the next step.
16. Press "Return" to confirm the defaults again in the next step.
17. Leave the rotation setting at "0" and press "Return" to confirm.
18. Answer the question "Remove Hidden Lines" with "No".
19. Choose the option "Fit" [on paper] and press "Return" to confirm.
20. Leave the plotter name as the default and press "Return" to confirm.
21. Choose the option "0" to leave the configuration.

22. Choose option "0" again to finish the dialogue completely.
23. Then choose option "Yes" to save the changes you have made, and press "Return" to confirm.
24. Close AutoCAD 13 and continue with the next chapter "Configuration".

## **Installation in AutoCAD 14**

1. Start AutoCAD 14 and open the window "Preferences" under the menu point "File – Printer Setup".
2. Open the window "Add A Printer" by clicking on "New" once.
3. Choose option "HP-GL/2 Device" and press "OK" to confirm.
4. Choose option 4 "HP DesignJet 1055 CM" and press "Return" to confirm.
5. Press "Return" once.
6. Choose the option "Parallel Port" and press "Return" to confirm.
7. Perform steps 9. – 19. as described above in the section for AutoCAD 13.
8. Choose the new printer "HP DesignJet 1055 CM" and click on "Set Current".
9. Finish the dialogue with "OK".

## Configuration

To configure RW-480 PLOTCLIENT HDI/ADI you must carry out two further configurations. First via the program's own configuration tool and then in the print dialog of AutoCAD.

### Configuration for AutoCAD 13/14 via configuration tool

If you have deactivated during installation the check box for the start of the configuration tool in step 9, start the configuration tool now via "Start – programs – RW-480 – RW-480 – RW-480 PLOTCLIENT HDI ADI – Config" and enter the following settings:

- **Select Program**

Select RW-480 PLOTCLIENT WIN, from which you wish to send your print jobs to RW-480 PLOTBASE for printing. If you use the [HDI/]ADI Client, your presets always only apply for the current print job. If you take RW-480 PLOTCLIENT WIN, you can add several other print jobs to your current print job and have the same presets for all.

- **Select AutoCAD version**

If you work with one of the two AutoCAD versions R13 or R14, inform RW-480 PLOTCLIENT WIN which Version you use.

- **Configuration**

If AutoCAD 13 has not been installed with the standard paths, inform RW-480 PLOTCLIENT WIN the two paths in which the configuration file "ACADNT.cfg" and initialization file "ACAD.ini" are. For AutoCAD 14 no settings are required.

After you have entered the settings in the configuration tool, you now only have to set up your new printer driver and enter the final presets in the print dialog of AutoCAD. You can then start printing.

## Settings for AutoCAD 13/14 in print dialog

To set up the printer with the print dialog in AutoCAD 13 or 14 proceed as follows:

1. Start your AutoCAD program.
2. Open a drawing.
3. Use "File – Print" to go to the print dialogue "Plot Configuration".
4. Click on the button "Device and Default Selection" and then make your choice from the list of HP-GL/2 printers (e.g. HP DesignJet 1055). Press "OK" to confirm.
5. Back in the window "Plot Configuration", in the section "Additional Parameters" activate the option "Plot To File". In the AutoCAD 14 dialogue, also activate "Autospool". Press "OK" to confirm.
6. When you start the printing procedure, the window "Select Printer" appears.
7. Press "OK" to confirm the default printer.
8. In the next window "Enter Plotserver IP", enter the name or IP address of the PC where RW-480 PLOTBASE is running and press "OK" to confirm.
9. In the window "Enter Spool Directory", enter the required spool directory and press "OK" to confirm".
10. This brings you to the window with print parameter settings for RW-480 PLOTCLIENT HDI/ADI.

## Settings for AutoCAD 200x in print dialog

To set up the printer with the print dialog in AutoCAD 200x proceed as follows:

1. Start your AutoCAD program.
2. Open a drawing.
3. Use "File – Print" to open the window "Plotter Manager".
4. Open the dialogue "Add A Plotter Wizard" and click on "Next".
5. To select a printer, click on "My Computer" and click on "Next".
6. Select printer "RW-480 PLOTCLIENT HDI" from the manufacturer list "RW-480" and click on "Next".

If you cannot find the RW-480 printer in the manufacturer's

list, proceed with step 7. If the printer is listed, continue with step 10.

7. If the RW-480 printer is not listed, select the option "Have disk".
8. Go to the "drv" directory of the RW-480 PLOTCLIENT HDI program directory.
9. Enter the driver file you need for your AutoCAD and confirm with "Open":  
AutoCAD 2000: "RW480DrvACAD2000.hif"  
AutoCAD 2000i, 2002: "RW480DrvACAD2000i-2.hif"  
AutoCAD 2004, 2005, 2006: "RW480DrvACAD2004.hif"  
Now you can select the printer "RW-480 PLOTCLIENT HDI" and click on "Next".
10. In the next window click on "Next" without importing a "PCP or PC2 file".
11. In the next window, click on the option "Plot to File" and click on "Next".
12. Confirm the plotter name "RW-480 PLOTCLIENT HDI".
13. Adjust the plotter configurations by clicking once on "Edit Plotter Configuration".
14. Open "Custom Properties" to adjust specific driver settings as well as the settings for medium and resolution:
  - **Server Name:** RW-480 PLOTCLIENT HDI/ADI can be used for printing on several plotters. Here please enter the name of the plotter to be used for printing. When you enter the name, usually the corresponding spool directory will appear automatically, then press "Return" to confirm. It is then entered directly in the box "Spool Directory".
  - **Spool Directory:** If the right spool directory was not already offered automatically for you to choose, you can enter it here manually.
  - **Raster gamma correction:** With the gamma correction, to put it simply, you set the brightness of the print. The gamma correction can be used in all plotters, which work with raster data. You can set a value between 1 and 5, whereby 5 means the greatest brightness.
  - **Choose RW-480 program mode:** Here you can choose whether you always want to print your print jobs

from AutoCAD as individual print jobs or whether you need to process several drawings in one drawing set together. If you want to process several drawings simultaneously for printing, activate "generate set with RW-480 PLOTCLIENT WIN". If you always only want to send individual jobs from AutoCAD to print and always want to use the same plot parameter settings, tell the program "do not display" this dialog. If you want to decide before each print and enter new print parameters, simply let this dialog be "Display" each time".

- **Plot color merge control:** You have two options to choose. By activating "Colors merge" all levels of your drawing will be merged. At parts, where two or more colors lie on top of each other, colors will be merged. If activating the option "Colors overwrite each other" higher levels overwrite completely levels below. Translucent parts do not overwrite any colour.

15. Quit the plotter settings by clicking on "OK" twice.

After you have carried out the configurations, you can either send you print jobs from AutoCAD directly to RW-480 PLOTBASE or to the RW-480 PLOTCLIENT WIN. The following chapter explains the individual settings for the printer parameters.

## Presets for print jobs

As soon as you want to send the file to print, the presets for the print open, in which you enter on which medium and format you want to print or even, whether the file is to be printed rotated and mirrored. You can alter the settings for the print job on three tabs:

- Main
- Advanced
- Options

### "Main" tab

- **Formats**

In this section of the tab you select the drawing format, in which the drawing is to be printed. Apart from the "Original" you will also find the drawing formats: ISO A/B/C, ANSI A-E and ARC A-E.

In the format setting "Original" the program obtains the format size from the original file of the drawing. This is the presetting. If you want to scale the drawing use scaling option in AutoCAD. AutoCAD supports definition of custom defined paper formats.

- **Border**

If you want a white margin around the drawing plot, enter the required spacing for all side margins. You can choose between the size units mm and inches.

- **Invert**

If you activate this option, the drawing is inverted, i.e. black and white colors are swapped.

- **Copies**

You can enter any number of copies between 1 and 999 to be printed by the job.

- **Media type**

Use this menu to select which type of media the drawing is to be printed on: Paper, Translucent, Film. The selection depends on what roll of medium you have fed in the plotter.

- **Mirror**

In this area you can set whether the drawing is to be mirrored or not during plotting. You can choose from four options

OFF: The drawing is not mirrored during plotting.

X: The drawing is mirrored horizontally.

Y: The drawing is mirrored vertically.

XY: The drawing is mirrored about both axes simultaneously; equates to a 180° rotation.

You usually use these settings if the drawing has been scanned and saved with a mirror inversion. This is especially important if a translucence has been scanned with mirror inversion to increase the contrast

- **Output**

You have two possibilities for the output of your printouts on plotter RW-480: upper and lower. The standard setting is output at the top.

- **Media Source**

You can select one of the plotter rolls offered. In addition, you can also choose the "automatic" or "manual" options. The "automatic" option means that the plotter itself selects a suitable roll, which corresponds to the given format. The "manual" option means that you feed the print medium in the input tray yourself.

- **Rotate**

Here you can set whether the drawing is to be rotated or not during plotting. Rotations of 0°, 90°, 180° and 270° are possible. When set to "Auto", RW-480 PLOTCLIENT HDI/ADI rotates automatically if this results in less waste paper.

- **Cut Mode**

The selections available are "Synchro" and "Format". If you choose "Synchro", the plotter cuts the drawing immediately after the last data has been printed. This results in optimum paper or medium use, because it produces the smallest amount of waste. On the other hand, if you want the printout to always be cut to a standard format, irrespective of how much space remains unused, activate "Format". The plotter then always cuts to the next



largest format. This can be a disadvantage if e.g. a drawing is only around 0.5 cm larger than a ISO A5 page is printed on a ISO A4 page and thus almost 50 % of the sheet remains unused. The advantage is that some folders require exact formats and you can match them using the "Format" setting.

- **Size unit**

Set the size units to "mm" or "inches", which apply for all settings.

- **Printer name**

This default cannot be changed. The RW-480 plotter is preset.

## **"Advanced" tab**

- **User name**

The basic settings are loaded and saved under this name. If the name used for the current plotter type is not yet available on the INI file, the current settings in the windows are set as the basic settings for this user. If the user name already exists, the current settings are overwritten by the saved basic settings for this user from the INI-file.



**Note:** Insofar as the function "User authentication" is activated at the RW-480 plotter, make sure that the user name here is identical with the user which has been set up there, otherwise the print job will not be carried out! To keep a better check on all used user names, it is advisable always to take the user names used in the network. If you do not know the user names set up at the RW-480 plotter, ask your administrator!

- **Drawing content**

Here you define which pattern RW-480 PLOTCLIENT HDI/ADI should use for the dither procedure when producing a printout with the RW-480 PLOTBASE. There is a choice between "Mixed", "Line Art" and "Graphic Art". "Line Art" should be used preferably if the drawing has lots of lines, "Graphic Art" is ideal for drawings primarily with graphic content.

- **Email**

Enter the email address to which the RW-480 PLOTCLIENT HDI/ADI should automatically send a message following successful completion of the plot job.

- **Color source**

When you activate "File", the details for pen ink are used from the plot file being printed. But if no settings have been entered here, the plotter uses the standard defaults in the "Default.ssl" file. When printing with "red", the HPGL settings of RW-480 PLOTBASE are used.

- **Account**

In this field the account number of the client is entered. This can be an account number, which you assign in-house or the receiver of the invoice in-house.

- **Locked Print**

By confirming the "Enter password" button, a dialog is displayed in which the user is requested to enter a password. After this, the print out can only be started at the server RW-480 PLOTBASE, if the correct password has been entered.

- **Priority**

Set the priority of the print job. If several print jobs are in the queue, the job with the highest priority is plotted first.

- **Delete file after print**

Activate this option, if the job is to be deleted immediately following successful print out.

- **Sample Print**

Activate this option, if you want to check the quality of a print off. Only the first set of copies will then be printed. The print off of further sets of copies is stopped, so that you can check the quality of the print off. Then you will be asked, whether you would like to continue with the print out or abort.

- **Stamp**

Here you can adjust whether a stamp should be printed or not.

- **Stamp text**

Enter the brief text to be printed on the drawing as a stamp.

- **Size**

Set the font size for the stamp text. You can set the value between 10 pt to 48 pt.

- **Rotate**

If you wish the stamp to be rotated on printing, enter the angle of rotation.

- **Position**

With this option you can fix the position of the stamp text on the drawing. You can choose between nine positions.

## "Options" tab

- **Server name**

Enter the name or IP address of the PC where RW-480 PLOTBASE is running.

- **Spool folder**

A dialog is opened with the "Find" button, in which the user can search for the spool folder on their computer or in the network.

- **Save as basic settings**

The current settings are saved for the current user name and plotter type by pressing the confirmation button.

- **Reinstate basic settings**

The settings saved for the current user name and plotter type are loaded from the INI-file and the dialogs are updated.

- **Select mode**

RW-480 PLOTCLIENT HDI/ADI can be used in different modes:

- Display this dialog: When starting RW-480 PLOTCLIENT HDI/ADI, this dialog is always displayed for editing the job settings.
- Do not display this dialog: When starting RW-480 PLOTCLIENT HDI/ADI, no dialog is displayed and the print job is printed with the settings from the user's basic settings for the current plotter type.
- Generate set with RW-480 PLOTCLIENT WIN: When starting RW-480 PLOTCLIENT HDI/ADI, RW-480 PLOTCLIENT WIN is started and the plot file is transferred to this pro-

gram. The RW-480 PLOTCLIENT WIN can then be used with SSL commands to produce a complete job set made up of the individual print files.

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## **Part IV – RW-480 PLOTCLIENT WEB**

## Introduction

The RW-480 PLOTCLIENT WEB enables you to send print jobs to RW-480 PLOTBASE both via the Intranet as well as via the Internet. You can stipulate numerous print parameters. Successful processing of the print processes in RW-480 PLOTBASE can be controlled via a status message. Equally, you can also have an e-mail sent to obtain a message on successful job completion or if there are problems.

The chapters "System requirements", "Installation" and "Configuration" from Page 105 are directed at the administrator of the program. The main chapter "Edit print jobs " from Page 112 is of interest for users.

## Installation

To access the program you merely need a browser program. Use Microsoft Internet Explorer 4.x, 5.0, 5.5, 6.0 or Netscape 4.x, 6.1 and higher version.

The installation of RW-480 PLOTCLIENT WEB has already been carried out on the RW-480 PLOTBASE server. To be able to use the "add multiple" function in the browser program, a Java runtime environment must be installed on your workstation. This program has been supplied for three different operating systems. These programs are located on the server in the following shared folder:

\\<Server>\Tools\Plugins\



**Attention:** Following program installation, we recommend that you start RW-480 PLOTCLIENT WEB once with administrator rights and perform the function "Add Multiple" to make it easy to install the necessary Java software package for this function. The RW-480 PLOTCLIENT WEB also simultaneously picks up the device information on the connected plotter.

The following installation programs are delivered with the software and offered in this folder - if you do not install the respective plugin, you cannot use "Add multiple" function in RW-480 PLOTCLIENT WEB:

- **J2re-1\_4\_2\_04-linux-i586.bin:** This program is for installation on a Linux computer. Click on "bash Inst-java.sh" to start installation. After installation, the archive and the unpacked files can be deleted on the workstation.
- **J2re-1\_4\_2\_04-solaris-i586.sh:** This setup program can be used to install Java Runtime for Solaris. After installation, the archive and unpacked files can be deleted on the working computer.
- **J2re-1\_4\_2\_04-windows-i586-i.exe:** With this setup program you can install Java Runtime for Windows. Start the installation with a double click on the file name "setup.exe".

- **Wmplgin1.exe:** Windows TIF viewer to be able to view tif files directly in the browser.

Select a suitable program for your operating system and start the installation. Follow the instructions given by the installation program.



## Configuration

The configuration of the program is carried out by an administrator. They can access the configuration page from any computer within the network, if they have the relevant access password. The following properties can be set on the configuration page:

- Access rights for individual users,
- Paths for print jobs, response messages and job logs,
- Password for the configuration page.

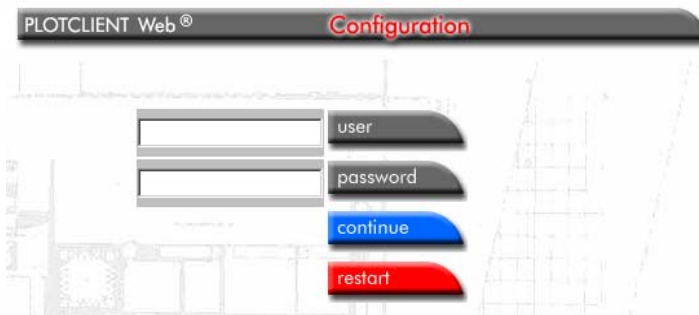
### Open the configuration page

You have two possible options for opening the configuration pages in the browser. Select the menu command "Start – Programs – RW-480 – RW-480 – RW-480 PLOTCLIENT WEB Admin" on the server or enter the following configuration page address in the address line of your browser:

<http://127.0.0.1/pcweb/config/pbconfig.pbw>

The numeric IP address of the "loopback interfaces" (127.0.0.1) can only be given at the server. To open the configuration page in the browser of another computer within the network too, you can also enter the name of the server.

The start page looks like this:



After opening the page you must enter a user name (user) a password. The standard for the user name and password is the word "admin". You should change this password (see chapter

"administrator password"), to prevent other people from accessing the administrator pages. Click on the "Continue" button to confirm the input.

## Access rights for users

Setting up a new user and assigning their access rights is simple. Click once on the menu item "User" and then on "New" and enter the data for the new user.



**Note:** If the "New" button does not appear, check whether the maximum number of users has already been reached. Normally there won't be any user limitation but in some countries technical specifications may differ from standard. In that case please contact your dealer or support technician.

- **User name**

Enter the name under which the new user is to use RW-480 PLOTCLIENT WEB.

- **Customer**

Here you can enter e.g. the complete name of the firm or private person.

- **Account**

In this field the account number of the client is entered. This can be an account number, which you assign in-house or the receiver of the invoice in-house.

- **User can change account info**

If you want to allow the new user, e.g. to be able to change the cost center, activate this option.

- **User can change password**

If the user can change their password, activate this option.

- **Set user's jobs in queue to wait**

This option is particularly advantageous for users who want to send their print jobs via the Internet. Here the administrator can convince themselves whether the print data has arrived complete and without errors before printing.

- **Password**

When changing the password, please enter it twice. If the password has already been issued or is to be changed, the program also accepts empty entries! I.e., no entry here means an empty field in the log in!

As soon as you have entered all the information, quit the set up of a new user with "Accept".

With respect to setting up users, ensure you follow the following:

1. The access of individual users is controlled using individual IDs and passwords.
2. Each user that wants to produce jobs for RW-480 PLOTCLIENT WEB via the web interface must be known to the system.
3. Group IDs for several users must be strictly avoided, as individual settings and job parameters can be lost.
4. Access is possible immediately following the set up of a user ID with password, using this ID.

Deletion of individual user IDs is also carried out via the configuration page. Please note that all individual settings remain in the client subfolder `.../webroot/config/user/id.*` on the PC where your RW-480 PLOTCLIENT WEB has been installed and must be deleted manually. Also the entries in the upload folder are not affected by changes in the user configuration.

- **Delete user**

To delete a user is very simple. Click once on the menu item "User", select the user to be deleted in the user list and then click once on "Delete".

## Set spool path (upload)

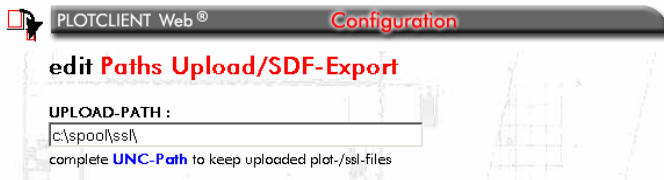
The job and drawing files of RW-480 PLOTCLIENT WEB are stored in a local spool folder. This is normally the subfolder `c:\spool\ssl`. This is where both the SSL files required for RW-480 PLOTBASE, and the drawing data assigned to each job are stored in individual subdirectories. To work correctly, it is very important that you enter the complete local path. The spool paths, which are given for RW-480 PLOTCLIENT WEB and for RW-480 PLOTBASE must show the identical folder. Use of UNC path details can be used if RW-480 PLOTBASE and RW-480 PLOTCLIENT WEB are installed on different computers.



**Attention:** The Apache Web Server must be logged on as a service with user rights where RW-480 PLOTBASE is located on another computer.

Proceed as follow to enter the spool path:

1. Click on the "upload" button. The following window opens:



2. Enter the spool path; enter the path that leads from RW-480 PLOTBASE to the spool path and confirm the entry with "accept".

## Additional settings (misc.)

By clicking on the "misc." button, you open the following configuration window:

The screenshot shows the 'Configuration' window for 'PLOTCLIENT Web'. The title bar says 'PLOTCLIENT Web® Configuration'. The main heading is 'edit miscellaneous parameter'. There are three sections: 'RESPONSE-QUEUE-PATH/AUTOFRESH', 'LOG INFO ON NEW JOB', and 'Language'. The first section has a text input field with 'c:\spool\response\', a note to 'complete UNC-Path for queue/response-files.', and a numeric input field with '10' and the label 'sec. Auto-Refresh-TIMEOUT'. The second section has a checkbox for 'log job-info', a text input field, a note to 'complete UNC-Path for shared printer/log file', and another checkbox for 'append Form Feed (FF)'. The third section has a 'Language' label and a dropdown menu currently set to 'english'. Below that is a 'Measure' label and a dropdown menu currently set to 'mm'.

**PLOTCLIENT Web® Configuration**

**edit miscellaneous parameter**

**RESPONSE-QUEUE-PATH/AUTOFRESH :**  
  
 complete **UNC-Path** for queue/response-files.  
 sec. Auto-Refresh-TIMEOUT

**LOG INFO ON NEW JOB :**  
☐ log job-info  
  
 complete **UNC-Path** for shared printer/log file  
☐ append Form Feed (FF)

**Language**  
 Please choose your favorite language:

**Measure**  
 Please choose default Measure:

You can use this configuration window to set a response path, an auto refresh timeout, a path for log files, and options for the print out of the log file and a language for the configuration pages. The individual settings are described in the following.

- **Response-Queue-Path**

Enter the path for the response folder, which is set up by RW-480 PLOTBASE. The data in this file evaluates RW-480 PLOTCLIENT WEB, to display the current queue-status of the print jobs. Enter the UNC-path as RW-480 PLOTCLIENT WEB is not on the same computer as RW-480 PLOTBASE.

- **Auto refresh Time**

As the browser pages displayed are static, the response view should be updated occasionally. If you carry out this update with auto refresh, this is repeated after the interval that you set here. Enter the time in seconds.

- **Log Info on New Job**

You can have a log file produced, in which the most important editing processes carried out for a job are stored. If you want this option, activate the check box in front of "log job info" field. Now enter a path for the file (e.g. c:\spool\pcweblog.txt) in this field. If the file cannot be found in a folder of the computer on which RW-480 PLOTCLIENT WEB is, but is to be saved on another computer, use a UNC path entry. If you want to print off this log-file and the log-file information for each job is to be printed on a separate page, activate the option "Page break (FF) attach" by clicking on the check box.

- **Language:**

Select a language for the configuration from the list filed. The selected language will also be used for new users initially. Each user can however also change the language again.

- **Measure**

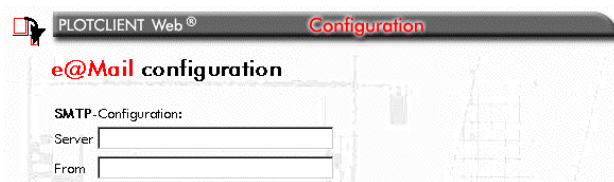
Here you can preset the unit of measurement that is to apply for all work with RW-480 PLOTCLIENT WEB. You can choose between "Millimeters" and "Inches".

After you have entered all these entries, confirm this by clicking on "accept".

## E-mail (e-mail)

The user can have a message sent by e-mail about whether the print job has arrived at RW-480 PLOTBASE, whether errors occurred while processing the print job or whether the print job was successfully processed. For this, a mail server must be installed. Proceed as follows:

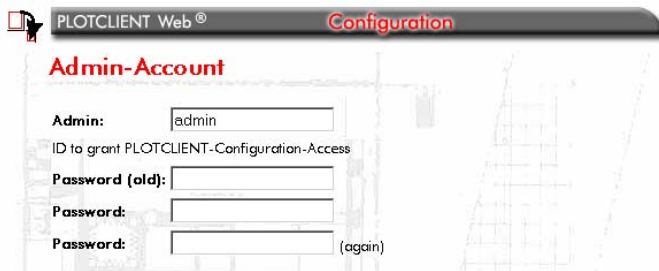
1. First open the corresponding configuration window by clicking on "e-mail":



2. Enter the name of your in-house mail server in the first field. Ask your network administrator if you don't know.
3. Beneath this, enter an e-mail address, known in the network. We recommend that you use the e-mail address of the RW-480 PLOTCLIENT WEB administrator.
4. Confirm the entries with "accept".

## Administrator password (admin)

Access to the configuration pages is usually via the fixed defined "admin" account using the password "admin". The user ID and password can be set individually on the following page, which you open by clicking on the "administrator" button:



The screenshot shows the 'PLOTCLIENT Web' configuration interface. At the top, there is a header bar with 'PLOTCLIENT Web' and 'Configuration'. Below this, the title 'Admin-Account' is displayed. The form contains the following fields and labels:

- Admin:** A text input field containing the value 'admin'.
- ID to grant PLOTCLIENT-Configuration-Access:** A text input field.
- Password (old):** A text input field.
- Password:** A text input field.
- Password:** A second text input field for confirmation, with the label '(again)' to its right.

Enter the user name and the password in the fields. The password must be confirmed. All entries are confirmed with "accept". The access ID of the administrator does not permit access to the job processing. As the job editor you need your own user rights. It is not possible to set up several different administrator accesses.

To reset the set administrator access to the installation defaults (admin/admin), the password file "passwd" in the client sub folder .../webroot/config/ must be deleted.

## Prepare print jobs

In the editing windows of RW-480 PLOTCLIENT WEB, you can collate print jobs, determine the print parameters and check the status of the print jobs sent.

### Plot sequence

This chapter first explains how you can purposefully prepare a job. The following chapters contain a detailed explanation of the individual steps, which are now listed in abbreviated form:

1. Start a browser program. Open the start page of RW-480 PLOTCLIENT WEB by entering the address in your browser.
2. Log in using your user name and password.
3. First choose the print parameters for the job. These are general properties, like the settings for a security print or entering an e-mail address for notification of the successful completion of a job. The job name is issued automatically.
4. Now choose the print parameters, which are to apply for all entries (drawings and documents). For example, you determine the format of the drawings or the medium, on which the plots are to be printed. These settings can however be changed for new entries. Subsequent change is possible for each individual entry.
5. For HPGL or Calcomp drawings, you can enter the pen settings for the plotter.
6. Insert the job entries individually or simultaneously.
7. The job can now be sent to RW-480 PLOTBASE.
8. With the aid of a status page, you can check whether the job has been transferred to RW-480 PLOTBASE and inform yourself of the status of the job processing. You are automatically informed of the status by e-mail, if you have set this in the print parameters for the job.

### Open and log on

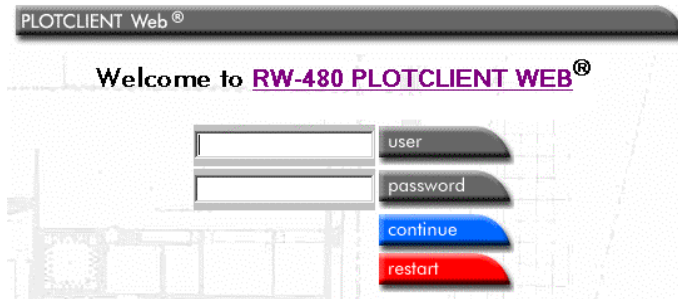
Start the browser and open the start window, by typing the following address in the address line of your browser:

`http://<Server>/pcweb/`



Instead of the expression <Server>, enter the server name or IP address of the computer, on which RW-480 PLOTCLIENT WEB runs and start the query by pressing the return key.

The following window is opened:



Enter the user name and the password. Only users that have been previously entered by the administrator via the user configuration are permitted access. The username "demo" and password "demo" are preset. Please ask your administrator, which user name and which password they have assigned for you. Confirm the details by clicking on "continue". If you have entered wrong information, simply click on "restart". The fields are now empty again and you can enter other information.

## Settings for the job (job parameters)

A job includes all the drawings and documents, which are sent under one job name to RW-480 PLOTBASE and later issued by the plotter in one print run. The individual drawings and documents in the job are called entries.

The job name is assigned automatically. It consists of the user name and a four-figure consecutive number, e.g. Miller-0001.

You can set the general properties of the job like e.g. the number of job copies or activation of a test plot in the window "job parameters". It is opened by clicking on the button of the same name.

☒ start here

Customer: <b>Demo User</b>	<b>change password:</b>
Account: Demo Account Information	old: <input type="text"/>
Username: <b>demo</b>	new: <input type="text"/>
Language: <b>english</b> measure: <b>millimeter</b>	again: <input type="text"/>

Distribution: <input type="text"/>	<input type="checkbox"/> Job Flag Sheet <input type="text"/>
---------------------------------------	---

Locked Print: <input type="checkbox"/>	Locked Print password: <input type="text"/>
--	---

Job Copies: <input type="text" value="1"/>	Collate: <b>yes</b> ▼	Job Plotter: <b>Any Plotter Available</b> ▼	Sample Print <input type="checkbox"/>
Output: <b>Front</b> ▼			Delete <input type="checkbox"/>

Notes: <input type="text"/>
--------------------------------

e-mail:
<input type="checkbox"/> notify <b>transmission</b> to: <input type="text"/>
<input type="checkbox"/> notify <b>success/error</b> to: <input type="text"/>

If you have activate the check box in the above "start here", this page is opened straight after the log-on.

In the uppermost box you will see the following information and possible settings:

- **Customer**

This is the client for whom the user has prepared the job. This information was assigned by the RW-480 PLOTCLIENT WEB administrator and cannot be changed.

- **Account**

This information is used for billing, where this is to be produced. If the administrator has released this field for editing, you can change the presets entered by the administrator.

- **User name**

In this field the name of the employee who collated the plot job and sent it for printing to RW-480 PLOTBASE is displayed. This name can only be changed by the administrator of RW-480

## PLOTCLIENT WEB.

- **Language**

Choose the language from the list field, which you want to use in this program. The language used by the administrator in the configuration menu is preset.

- **Measure**

Here you can preset the unit of measurement that is to apply for all work with RW-480 PLOTCLIENT WEB. You can choose between "Millimeters" and "Inches".

- **Change password**

You can change your password, if the administrator permits editing. First enter your old password, enter a new password in the field below and confirm the new password by entering it again in the bottom field.

- **Delete after plot**

The job is deleted following successful plotting.

- **Distribution list**

Enter which persons are to obtain a copy of the job.

- **Job flag sheet**

Activate the "Print JobFlagsheet" field by clicking on the checkbox, if you want a cover sheet to be printed with all the information in an overview. You can enter your own additional information in the text field, which is also printed on the cover sheet. Also, you can enter further information in the "Notes" field. You should not use the following characters: " " < > ; : \

- **Copies**

Enter how many copies are to be printed.

- **Collate**

Activate this field if the plot job is to be printed out collated. Collated means that the entries of an order are printed out as follows when several copies are required:

E.g. you have the entries 1, 2 and 3. Three copies of each are to be produced. If you choose "1-2/1-2" from the list field, the printouts are in the sequence 1, 2, 3 - 1, 2, 3 - 1, 2, 3. If the printout is not sorted, the complete number of entries is printed

out: 1, 1, 1 - 2, 2, 2 - 3, 3, 3.

- **Job Plotter**

The RW-480 plotter is preset. As a standard, no other plotter is available for selection.

- **Locked print**

As soon as the security option is selected in a Client program, nobody can view and print this job, as long as the correct User ID has not been entered. The job has the status "Password". This function is for example if the drawings are to be kept secret. The print jobs can only be printed by the user that was queried with respect to the password before plotting. As soon as the job has been plotted it is automatically deleted.

- **Sample print**

Activate this option if you want to check the quality of a print. Only the first set of copies is plotted. Print out of further sets of copies is stopped, so that you can examine the quality of the print. You are then asked, whether you wish to continue with the print out of the remaining entries or abort the job.

- **Output**

You have two possibilities for the output of your printouts on plotter RW-480: upper and lower. The standard setting is output at the top.

- **Notes**

This field is free for your notes. You should not use the following characters: " " < > ; : \

- **Document Box**

The "Document Box" is a memory unit in the plotter where RW-480 PLOTCLIENT WEB can send one or several documents for later printout. The documents are saved in the document box memory until they are printed out directly at the plotter, or the job is deleted in the document box. The documents saved in the document box cannot be sent to printing by RW-480 PLOTCLIENT WEB!

**File Name:** Give an unequivocal file name to the job being sent to the document box.

**User Name:** Also give the job a user name. This additional in-

formation is particularly useful if several users send jobs to the document box.

**Password:** If you only want your job to be printed on the plotter by you, you can protect it with a password. To do so, click on the "Change" button and enter your password twice. As soon as the plotter selects the print command for the corresponding job, the plotter will demand the password stated here.

- **Combine**

"Combine" refers to grouping together drawings for joint print-out on one single sheet. In this way, you can have up to 16 drawings printed out on one single sheet.

**Quantity:** Adjust how many pages you want to print on the sheet. There is a choice of 2, 4, 8 or 16 pages.

**Paper Size:** Enter the size of the sheet of paper where the individual pages are to be printed together.

**Media type:** Use this selection menu to choose the media type for printing the summarized pages: any, paper, transparency, film and environment paper. The choice depends on what you have put on the rolls of your plotter.

**Media Source:** Select one of the shafts with the rolls for the different print materials (paper, film, etc.). The rolls can differ in width.

If you choose the "auto" setting, the plotter chooses the medium supply corresponding to the format size of the drawing. If this medium has been used up, the plotter chooses the roll with the next larger format.

You can use the manual feed option to insert a special medium in the plotter. The print job is marked blue in the job list.

**Direction:** Finally, indicate the order for printing the individual pages on the sheet. The "Z" direction prints the pages line by line arranged from left to right until the line is full, before beginning with the next line. The "I" direction arranges the pages in columns from top to bottom until the column is full, before beginning with the next column.

- **email Configuration**

You can instruct this program to automatically send an e-mail to the client. There are two options: Transmission and Success/Error. An e-mail notification "Transmission" means that an e-mail has been sent, if the RW-480 PLOTCLIENT WEB server

has successfully included an entry in the job list. An e-mail notification "Success/Error " means successful print out or a defective processing of the job is reported. If you want to receive an e-mail, enter the e-mail address in the respective field and activate the respective option by clicking on the check box.

After you have entered all the settings, confirm them by clicking on the "accept" button.

## Print parameters for entries (entry defaults)

The print parameters can be fixed in the "entry defaults" window. It is opened by clicking on the button with the same name.



**Attention:** The print parameters only apply for newly added entries. If you change the print parameters in the middle, they only apply for the new entries, but not for the existing entries.

## General print parameters

- **Formats**

In this section of the tab you select the drawing format, in which the drawing is to be printed. Apart from the "Original", "Window" and "Percent" options, you will also find the drawing formats: ISO A/B/C, ANSI A-E and ARC A-E.

In the format setting "Original" the program obtains the format size from the original file of the drawing. This is the preset.

If you use the format setting "Window", you can freely set the values for the format width and format height, whereby the style sheet is set by the window value. The freely settable settings refer both to the alignment as well as the format size and the format margin:

If you choose one of the standard formats ISO, ANSI or ARC, you can accept the dimensions or freely change them according to your requirements:

You can use the "Window", if you set a standard format e.g. ISO

A0 and want to extend the format width and format height. First set the required format and then click in "Window". You can now change the format width and height values to meet your requirements.

If you want to scale the drawing smaller, activate "Percent". You can now enter a value between 1.00 and 999.00 for the format width and height.

X = format width

Y = format height

If you want to retain the size ratio of the drawing, activate the option "Maintain ratio".

- **Border**

If you want a white border around the drawing plot, activate the "ON" field and enter the required spacing for all side borders. You can choose between the size units mm and inches.

- **Copies**

You can enter any number of copies between 1 and 999 to be printed by the job.

- **Media Source**

You can select one of the plotter rolls offered. In addition, you can also choose the "automatic" or "bypass" options. The "automatic" option means that the plotter itself selects a suitable roll, which corresponds to the given format. The "bypass" option means that you feed the print medium in the input tray yourself.



**Note:** If you choose the "bypass" option, please note, that the format has to match with minimum size 182mm x 149mm.

- **Media Type**

Use this menu to select which type of media the drawing is to be printed on: Don't care, Paper, Translucent, Recycled Paper or Film. The selection depends on what roll of medium you have fed in the plotter.

- **Position**

With the "Media Position" you set the symbolic position on the paper, if the image is to be plotted on a larger paper format. E.g. If you have a ISO A4-drawing, which is printed at its original size on ISO A1, you can enter where the drawing is position on the larger sheet for printing.

- **Mirror**

In this area you can set whether the drawing is to be mirrored or not during plotting. You can choose from four options

OFF: The drawing is not mirrored during plotting.

X: The drawing is mirrored horizontally.

Y: The drawing is mirrored vertically.

XY: The drawing is mirrored about both axes simultaneously; equates to a 180° rotation.

You usually use these settings if the drawing has been scanned and saved with a mirror inversion. This is especially important if a translucence has been scanned with mirror inversion to increase the contrast

- **Rotate**

Here you can set whether the drawing is to be rotated or not during plotting. Rotations of 0°, 90°, 180° and 270° are possible. When set to "Auto", RW-480 PLOTCLIENT WEB rotates automatically if this results in less wasted paper.

- **Cut Mode**

The selections available are "Synchro" and "Format". If you choose "Synchro", the plotter cuts the drawing immediately after the last data has been printed. This results in optimum paper or medium use, because it produces the smallest amount of waste. On the other hand, if you want the printout to always be cut to a standard format, irrespective of how much space remains unused, activate "Format". The plotter then always cuts to the next largest format. This can be a disadvantage if e.g. a drawing is only around 0.5 cm larger than a ISO A5 page is printed on a ISO A4 page and thus almost 50 % of the sheet remains unused. The advantage is that some folders require exact formats and you can match them using the "Format" setting.



- **Pens**

Set the pen settings for the drawing. These can be the default settings or individually saved pen settings.

## Stamp settings

You can enter the following settings:

- **Stamp Text**

Enter the stamp text. You should not use any of the following characters: " " < > ; : \

- **Stamp font size**

Choose a font size from the selection list.

- **Stamp Macro**

You can insert a macro in the stamp text. If for example you want a date in a stamp, choose the macro with the same name. If you select a macro, it is inserted at the end of the stamp text. If you want the macro to be inserted in the middle of the stamp text you can insert the macro command yourself:

- Enter page number: <N>
- Enter date: <D>
- Enter file name: <F>
- Enter time: <T>
- Enter user: <U>

- **Stamp job**

The stamp on the drawing can be opaque, inverting or translucent. In an inverted stamp the color of the text and the background are reversed. The original black text is then white and the rest of the background is black. In a translucent stamp, only the black text can be seen and there is no background.

- **Stamp Position**

Select a stamp position on the drawing from the list field.

After you have entered all the settings, you must confirm them by clicking on the "accept" button.

You can make subsequent changes for individual entries. Read chapter "Entry list", Page 130.

## Pen settings (pen settings)

You can determine individual pen assignments for HPGL and Calcomp-drawings. Open the relevant page by clicking on the "pen settings" button.

You can save several, user-specific pen settings, by entering a name in the pen descriptions field. You can call up this name and thus the pen settings in the print parameters ("entry defaults"). The selection is made in the "pens" list field.

## HPGL

- **Step size/cm**

The standard is 400 steps per centimeter. The RW-480 PLOTCLIENT WEB therefore enters 400 as a default value, which does not normally have to be altered. Nevertheless, it is sometimes advisable to ask the customer what step number per centimeter they are used to working with to guarantee plot consistency. Furthermore, it can be necessary to make a change to reduce the DPI, to release more system memory for large drawings:



**Attention:** If you enter a larger value, you will obtain a smaller drawing: The entry 1 equates to 0.25 %. Example: if you enter 401, the drawing is reduced to 99.75 %.

- **Scale Pens**

Activate the check box, if the pen widths are to be scaled with the drawing. To avoid possible loss of information during the printout, you must ensure that you have entered at least one minimum pen width in "Pen settings" if the drawing is to be reduced in size and at least one maximum pen width if the draw-

ing is to be enlarged

- **Clipping**

The clipping command removes the white edges on the border of the drawing. Most plotter languages differ from each other in many ways to a greater or lesser extent – including with respect to the section, which, put simply, refers to the paper size.

This fact means that undesirable printing results are obtained, if a drawing is only printed in sections or in the most unfavorable case a white sheet of paper comes out of the plotter.

The "Clipping" function is considered in the context of the widely used reference plotter "HP DesignJet 1055 / 1055 CM": If you activate the check box, the drawing is printed in exactly the same way as it was printed on the "HP DesignJet" plotter. However, undesirable printing results can result, if the plotter language of your plotter differs greatly from that of the "HP DesignJet".

If you deactivate the function, RW-480 PLOTCLIENT WEB looks for the drawing dimensions itself and thus guarantees that the whole drawing is plotted

- **Pen Source from File**

If you activate this field, you instruct the plotter to use the pen width information entered in the SSL file for the entry and not the settings from the "Pens" tab. If no pen widths are defined, the program uses your settings.

If you do not activate it, the program always uses your settings.

- **Pen Colors from File**

If you activate this field, you instruct the plotter to use the pen color information entered in the SSL file for the entry and not the settings in RW-480 PLOTCLIENT WEB. If no pen widths are defined, the program uses your settings.

If you do not activate it, the program always uses your settings.

- **Size**

Enter the pen widths directly via the keyboard in the box left of "Size". Activate the pen required in the list above and enter the new pen width. The valid size unit is "mm".

If you want to "remove" a pen, you can enter the pen width as "0" or the pen color as "white".

- **Gray (%)**

The pen color is selected directly beneath "Size". Activate the required pen in the list above and enter the new gray scale value. If you want to "remove" a pen, you can enter the pen color as "white" or the pen width as "0".

- **Change**

With "Change" you fix the pen settings you have just edited. The program saves your settings.

## **Calcomp**

- **Step size/cm**

The standard is 800 steps per centimeter. The RW-480 PLOTCLIENT WEB therefore enters 800 as a default value, which does not normally have to be altered. Nevertheless, it is sometimes advisable to ask the customer what step number per centimeter they are used to working with to guarantee plot consistency. Furthermore, it can be necessary to make a change to reduce the DPI, to release more system memory for large drawings:



**Attention:** If you enter a larger value, you will obtain a smaller drawing: The entry 1 equates to 0.125 %. Example: if you enter 801, the drawing is reduced to 99.875 %.

- **Synchronization**

Synchronization is used to check the completeness of the Calcomp files, which have been sent from the application program. Four pieces of information are used for the synchronization settings:

- Sync-Char
- End-Char
- Double Sync
- Checksum

You can either let RW-480 PLOTCLIENT WEB determine the values or you can enter the necessary settings yourself. If the pro-

gram is to determine the values, activate "Auto detection".

We recommend that you do not alter the standard values if you want to enter the settings yourself. Should you nevertheless want to make a change or to find out more on the topic, compare the settings with those in your CAD system or read the following section in the "Calcomp Inc." manual:

"CALCOMP - ONLINE REFERENCE MANUAL" in the section "Data Message Format".

The standard settings are:

Sync character:	2	→ [setting from 0 to 127 possible]
End character:	0	→ [setting from 0 to 31 possible]
Double Sync:	OFF	
Test sum:	OFF	

The following two examples serve as possible comparisons:

- **AutoCAD:**

Sync character:	22
End character:	13
Double Sync:	ON
Test sum:	ON

- **FordCAD:**

Sync character:	2
End character:	3
Double Sync:	OFF
Test sum:	ON

- **Scale Pens**

Activate the check box, if the pen widths are to be scaled with the drawing. To avoid possible loss of information during the printout, you must ensure that you have entered at least one minimum pen width in "Pen settings" if the drawing is to be reduced in size and at least one maximum pen width if the drawing is to be enlarged

- **Pen Source from File**

If you activate "User", the program will always use your settings. If you activate this field, you instruct the plotter to use the pen width information entered in the SSL file for the entry and not the settings from the "Pens" tab. If no pen widths are defined,

the program uses your settings.

If you do not activate it, the program always uses your settings.

- **Pen Colors from File**

If you activate this field, you instruct the plotter to use the pen color information entered in the SSL file for the entry and not the settings in RW-480 PLOTCLIENT WEB. If no pen widths are defined, the program uses your settings.

If you do not activate it, the program always uses your settings.

- **Size**

Enter the pen widths directly via the keyboard in the box left of "Size". Activate the pen required in the list above and enter the new pen width. The valid size unit is "mm".

If you want to "remove" a pen, you can enter the pen width as "0" or the pen color as "white".

- **Gray (%)**

The pen color is selected directly beneath "Size". Activate the required pen in the list above and enter the new gray scale value. If you want to "remove" a pen, you can enter the pen color as "white" or the pen width as "0".

- **Change**

With "Change", the pen settings you have just entered are accepted as the new pen settings. The program saves your settings.

## **Add local entry, add multiple**

A job consists of one or several entries (drawings, documents). Before you send a print job to RW-480 PLOTBASE, you must first select one or several entries for the job.

For each entry, which you add to the job, the current print parameters are used - see "entry defaults", page 118. Changes to the print parameters, which you make on the page "add local entry" only apply for this entry.

You have several possible options to add job entries. You can add

- A local file
- A Zip-archive with one or several drawings

- Several local files at once
- A Zip archive with one or several SSL-Jobs

The options are described in the following chapters.

### **Local files or ZIP-Archive (add local entry)**

You can add local files, which you have stored within your Intranet or computer to a job. Another option is to add ZIP archive that contains one or several drawings. RW-480 PLOTCLIENT WEB can unpack the Zip archive and include the drawings as entries in the entry list.

First open the corresponding editing window by clicking on the button "add local entry". The window that you used to set the print parameters opens. Above the settings there is now an additional field, in which you can enter the path to a drawing file. Alternatively, you can also click on the "Browse"-button and then select a file from the opened dialog. It is possible that the file selection has the file extension \*.htm. Change this to \*.zip so that you can see the ZIP-files. Confirm the selection by clicking on the "Open" button.

If you want to check whether you have selected the correct file, you can first view it by pressing the "View" button. It can be necessary to add additional software to be able to display different image formats.



**Note:** If you already have a plug-in for displaying tiff files, you can view the corresponding files in the browser window immediately. The installation program of that plug in is located in the main folder of the RW-480 PLOTBASE under: [Server]\ tools\ Plugins\ wmplgin1.exe

You can now make several settings for this entry on the original page or you simply confirm the print parameters with "accept". The job list is opened automatically. If you want to send the job immediately to RW-480 PLOTBASE, click on "submit job". Otherwise you can also change the settings here - see chapter

"Entry list", Page 130.

## **ZIP-Archive with SSL-job**

Processing such a file lends itself if a client has produced an SSL-job and wants to send it to a firm in compressed form (ZIP) via the Internet, to have it printed there.



**Note:** An SSL-file contains print parameters for the print out, which can be read and interpreted by the RW-480 PLOTCLIENT WIN and RW-480 PLOTBASE programs. However, only SSL-jobs that have been previously produced by the client in RW-480 PLOTCLIENT WEB can be read. This program can produce compressed SSL-jobs.

The firm can accept the SSL job in the ZIP archive SSL-job with the aid of RW-480 PLOTCLIENT WEB and pass it directly on to RW-480 PLOTBASE. There the print job is prepared for the print out. Finally, the print out is plotted on the plotter RW-480.

To select such ZIP-archives proceed in RW-480 PLOTCLIENT WEB as follows:

Open the relevant editing window by clicking on the "add local entry" button. The window is opened, which you already know from when you set your print parameters. Above the settings there is a field, in which you can enter the path to the ZIP-file. Alternatively you can also click on the "Browse"-button and then select a file in the dialog that is opened. Confirm the selection by clicking on the "Open" button. A ZIP archive is recognized automatically. Several print parameters are already set in the jobs. Additional settings are not accepted.

## **Several local files (add multiple)**

If you want to add several files that you have stored in a folder of the Intranet to the entry list at once, select the function "add multiple".



**Attention:** Java Runtime Environment must be installed, so that the functions described above can be carried out. Ask your administrator, if an error occurs.

After clicking on "add multiple" you will see the following window:



If you want to transfer all files from a folder or several files from various directories at once, first choose "Add folder", then find the folder in the file selection. A "dummy\_file" is shown as the file name. After you have clicked on "Open", the files contained in the folder are then listed in the window.

If you also want to add a single file, click on "Add file", find the file in the file selection dialog and confirm with "Open".

You can also delete individual files, by clicking on the files concerned from the list first and then clicking on "remove".

If you have selected all the files, click on "upload", to send all the listed entries to the RW-480 PLOTCLIENT WEB. Then press "Continue", and to add the entries to the entry list. You can select individual files with "select", to set individual print parameters. The exact procedure for setting the print parameters is given in chapter "Print parameters for entries (entry defaults)", Page 118.

If you now want to send the job, click in this window on "submit job".

## Entry list

The list of the current entries appears frequently, after you have executed the commands "accept", "cancel", and "continue". You can also open the entry list at any time by clicking on the button with the name "RW-480 PLOTCLIENT WEB".

For new jobs without entries, a corresponding information text appears instead. The other functions of this window are described in the following chapter.

## Edit and delete entries (select, delete)

Until you send off the whole job, it is always possible to change the settings of the individual job items again. You can no longer change the entries file (the local drawing file), as there is already a copy on the RW-480 PLOTCLIENT WEB Server. To change the print parameters for an entry proceed as follows:

1. Open the entry list, as described in the previous chapter.
2. Select an entry from the list.
3. Choose the function "select".
4. You can now change all the print parameters for the print out, as described in the chapter "Print parameters for entries (entry defaults)", Page 118.

To delete an entry, mark it in the list and the click on the "delete" button. If you want to delete all the entries in the list, click on "Delete all".

## Send job (Submit job)

If you have collated all the entries for the job and have set all the print parameters, you can send the job to RW-480 PLOTBASE, so that it is printed.

Open the job list by and click on the button "submit job".



**Attention:** After submitting a job, you can no longer edit the individual entries.

## Query current job status (queue status)

Open this page via the "queue status" button. This page displays the status of the print jobs that have already been transferred to RW-480 PLOTBASE.

With the aid of the status information you can inform yourself of possible problems or errors during the plotting of the job concerned. There are two status levels:

- OK                job has been plotted
- Queued        job is in the job queue

To see the current status, you can either up date the page yourself by clicking on "refresh" or you can activate automatic update by clicking on "auto refresh". In the latter case the page is always updated after a certain interval.

## Plotter status (plotter status)

If you want to view the plotter status between times and e.g. want to know how much material is left on the plotter rolls or need general plotter information, open the "plotter information" window via the "plotter status" menu item:

PLOTCLIENT Web ®

### Plotter Information

**\*RW480\***

Status	ready
Model Name	"FilePrinter"
Model Version	1
Maximum length	1333.3 Inch
Maximum width	1333.3 Inch
Minimum length	0.0 Inch
Minimum width	8.3 Inch

Source	Filling	Medium	Width	Type
<b>*Tray 0*</b>	filled	Paper	1333.3 Inch	continuous roll
<b>*Tray 1*</b>	filled	Paper	1333.3 Inch	continuous roll
<b>*Tray 2*</b>	filled	Paper	1333.3 Inch	continuous roll

[close window](#) | [refresh](#)

- **Filling**

Here you see the remaining filling of the medium. It is shown by following five steps: 0 %, 25 %, 50 %, 75 %, 100 %.

- **Medium**

Shows medium on the roll.

- **Width**

Shows width of the medium so that you will know, which format is given.

- **Type**

Here you get the information if tray has manual feed, medium roll or cut sheet tray.

## **Incomplete jobs**

Each job remains stored in RW-480 PLOTCLIENT WEB until it has been sent. It is therefore possible that after logging on, you will be given the opportunity of reediting a job that has not yet been sent.

A job remains incomplete until all the local drawing data has been correctly transferred. The additional menu item "submit job" only appears for complete jobs.

## Corrective maintenance

This chapter is primarily directed at the program administrator. Several typical editing and system errors are listed. You are also provided with suggested solutions.

- **Log-on not possible**

Check the user name in the configuration. When logging-on, the program is case-sensitive both for the User-ID as well as the password – i.e. there is a difference between upper case and lower case letters! If in doubt, ask your administrator.

- **After entering the ID and password, the Web browser fails to react and waits...**

... on a reply from the server. This is a sign that the program cannot correctly access the license file. Check the correct installation of the dongle. A further reason for this lack of response can be that the Apache Web Server, which is required for the operation of the RW-480 PLOTCLIENT WEB, is running with insufficient rights. Access to the license file is only possible, if the Apache Web Server is registered as the system service or as a service with user rights (of a user of the administrator group). A more precise explanation is given in the chapter "installation" of the RW-480 PLOTBASE manual.

- **No SSL-file is produced; locale files can not be transmitted (upload pending)**

Check the folder-configuration for the upload path. It is possible that there are no write access rights for the directories given. For access via UNC-paths, the Apache Web Server must run as a service with user rights. More information about setting up the Apache Web Server is given in chapter "installation" of the RW-480 PLOTBASE – manual. The last note refers to the specification of local paths and mapped drives, which are accessed with the aid of UNC notation.

- **No mail messages are sent**

It is possible that the server name or the IP-address of the SMTP server has not been set correctly. Check, if an e-mail address has been given.

---

## **Part V – RW-480 PLOTCLIENT MAC**

## Installations

Two steps are necessary before you can begin printing with the printer driver of the Macintosh operating system Mac OS 10.3. Installation and configuration of the printer driver as well as entering the print defaults in the print dialog.

To install the printer driver for Macintosh, you have to install on two computers. You have to install on the Windows computer of the RW-480 PLOTBASE server and on the Macintosh PC.

### Installations on Server PC with Windows

- **Print service for UNIX**

1. Open "Start – Settings – ControlPanel – Add/Remove Programs – Add/Remove Windows Components – Other Network File and Print Services – Print Service for UNIX".
2. Change the settings so that the print service for UNIX automatically runs following each new start of the computer. To do this, go to the Desktop and open "My Computer" with by clicking on the right-hand side mouse button and select menu item "Manage – Services and Applications – Services".
3. Open "TCP/IP Print Server" with a double-click and set the "Startup Type" to "automatically".

- **Installation RW-480 WINPRINT**

1. Start the Setup from the folder \\<Server>\tools\Winprint
2. Enter "PbPort" as the port name.
3. Enter "WINPRINT" as the printer name.



**Note:** If you enter another name than "WINPRINT", we recommend only alphanumeric characters. If that name contains special characters, only the following characters are allowed: ! § \$ ( ) { } ~ # ' - \_ The maximum number of characters can be 12, spaces are not allowed.

4. Enter "WINPRINT" as the shared name.

5. Specify the spool folder of the lpr-print system with "c:\spool\cfg" as via "Start – Settings – Printers – WINPRINT – Properties – Ports – Configure Ports"

## Installation on the Macintosh computer

1. Start your Internet browser.
2. Open "http://<Server>/tools/PLOTCLIENT\_MAC".
3. Save the file "RW-480.ppd" with Drag & Drop on the Macintosh Desktop.
4. Open the window "System Preferences" by clicking on the icon "System Preferences" in the symbol bar.
5. Click on the icon "Print & Fax" to open the window for setting up a new printer.
6. Click on the option "Set Up Printers" to open the window "Printer List".
7. Click on the button "Add" to add the new printer.
8. Now select the option "IP Printing" and choose option "LDP/LPR" as "Printer Type".
9. Enter the IP address and the enabling name which you entered on installing WINPRINT on the RW-480 PLOTBASE server.
10. As "Printer Model", select the option "other" and then select the file "RW480.ppd" from the desktop.
11. Close the window with "Choose" and finish the final dialogue with "Add".

You can use the printer driver as soon as you have completed the installations on the server RW-480 PLOTBASE and on the Macintosh computer.



**Note:** Before updating the software, please delete the old ppd-file from the Macintosh system folder first.



## Print jobs and presets

After completing the above installations, you can send print jobs from any software to the plotter RW-480 via RW-480 PLOTBASE.

Whenever you want to send a print job, e.g. from a graphics program, open the menu item "File – Print". Enter the print parameters to be sent with the plot. If you always want to use the same print parameters you can save them as presets or default values. Open the "General" drop down menu to reach the three menu items used to set the print parameters for the RW-480 PLOTCLIENT MAC:

- MainOptions 1
- MainOptions 2
- JobOptions

The following three sections describe how to set the print parameters.

### MainOptions 1

Send a print job via the menu item "File – Print". Open "Main Options 1" via the drop down menu "General". There you can alter the following settings:

- **Scale to format**

Select the drawing format for the plot. Apart from the "Original" option, you can choose from the following formats: ISO A/B/C, ANSI A-E and ARC A-E.

If you select the "Original" format setting, the program fetches the format size from the original drawing file. This is the preset.

- **Rotate**

Set whether the drawing is to be rotated or not when plotted. Rotations about 0°, 90°, 180° and 270° are possible. If you select the setting "automatically", RW-480 PLOTBASE automatically rotates the drawing if this results in less paper wastage.

- **Mirror**

Enter whether the drawing is to be mirrored or not when plotted. The individual fields mean the following:

- Off: The drawing is not mirrored when plotted.
- X: The drawing is mirrored horizontally.
- Y: The drawing is mirrored vertically.
- XY: The drawing is mirrored about both axes simultaneously; equates to a 180° rotation.

You usually use these settings if the drawing has been scanned and saved with mirror inversion. This is especially important if a transluence has been scanned with mirror inversion to increase the contrast.

- **Invert**

If you activate this option with "On", the drawing is inverted, i.e. black and white colors are swapped or inverted.

- **Cut Mode**

The options available are "Format" and "Synchro". If you select "Synchro", the plotter RW-480 cuts the drawing immediately after the last set of data. This results in optimum paper or medium usage, because it produces the least waste.

If, on the other hand, you want the print out to always be cut in a standard format, no matter how much paper remains unprinted, activate "Format", thereby instructing the plotter to always cut the paper to the next largest format. This can be a disadvantage if e.g. your drawing is only around 0.5 cm larger than an ISO A5 Page, an ISO A4-Page is printed and so almost 50 % of the sheet remains unused. The advantage of this option is that some folders require exact formats and you can meet this requirement with the "Format" setting.

## MainOptions 2

The "MainOptions 2" is also opened via the "General" drop down menu. Here you can alter the following settings:

- **Media type**

Select the type of medium to be used to print the drawing: Paper, Translucent, Film or Recycled Paper. The selection depends on the medium you have loaded on the rolls of your plotter RW-480.

- **Input tray**

You can select one of the plotter rolls listed. In addition, you can also select from the "Automatic" or "Manual" options. The "Automatic" option means that the plotter itself selects a suitable roll, which matches the prescribed format. The "Manual" option means that you feed the print medium into the input tray yourself.

- **Output tray**

You have two possible options to choose from for your plots on the plotter: Front (output at the front) and rear (output at the rear). If a folder is connected, the rear output is selected for the folder. The standard setting is output at the front.

## **JobOptions**

In addition to the "MainOptions", you have four other general options that you can use to define the print job parameters:

- **Sample print**

Activate this option if you want to check the quality of a print. Only the first set of copies will then be printed. The print off of further sets of copies is stopped, so that you can check the quality of the print off. Then you will be asked, whether you would like to continue with the print out or abort.

- **Priority**

This shows what priority the job has been given by the user: Normal, High, Low, Wait, Immediately. You can change the priority given here or set it to the highest level.

- **Delete after plot**

If you activate this option, the job is deleted again by RW-480 PLOTBASE immediately after printing.

## **Part VI – RW-480 PLOTCLIENT LPR/FTP**

## RW-480 PLOTCLIENT LPR

With the lpr protocol or command, you can send print jobs to an RW-480 PLOTBASE via the RW-480 WINPRINT without having to use an application program. It also only requires a few presets and one command line. This printing option is especially intended for UNIX users.

### Configuration on Server PC with Windows

1. Start your Windows computer with RW-480 PLOTBASE as the administrator.
2. Open "Start – Settings – ControlPanel – Add/Remove Programs – Add/Remove Windows Components" and activate "Other Network File and Print Services".
3. Install RW-480 WINPRINT if you have not already done so.

After installing RW-480 WINPRINT, check that the printer driver has been released, or enabled, and check the spool folder as follows:

1. Open the printer window via "Start – Settings – Printers".
2. Use the right-hand mouse key to open the properties for WINPRINT and change to the "Sharing" tab.
3. Ensure that the printer driver is enabled as WINPRINT.
4. Change to the "Ports" tab, click on the WINPRINT line and open the "Spooler Path" window by clicking on the "Configure Port..." button.
5. Check that the spool folder is set as "C:\Spool\CFG".



**Note:** If you want to see the full file name of your print jobs in the RW-480 PLOTBASE jobs list, deactivate the "Use Short File Names" option.

### Print jobs with lpr on Windows

If you have entered all the settings described above, you can use the lpr command as follows to send print jobs to RW-480 PLOTBASE via the RW-480 WINPRINT:

1. Open the Prompt on the Windows computer of RW-480 PLOTBASE.
2. Change to the folder containing the files to be printed.
3. Enter the following command:

```
lpr -S %computer name% -P WINPRINT -o l <filename>
```

-S = server name  
-P = name of the enabled plotter  
-o l = binary mode

If you send a file without print parameters to RW-480 PLOTBASE, the RW-480 PLOTBASE basic settings are used. If you want to send your own print parameters with the plot, you have to first send the CFG file, which must have the same name as the graphic file, and then send the graphic file itself!



**Attention:** Always send the CFG or SSL file with your print parameters first, then send the graphic file. Otherwise there is a risk that RW-480 PLOTBASE begins to print your file before it has received your own print parameters for the print (CFG or SSL file).

## Configuration on UNIX

1. Install the "General Network Services" – TCP/IP.
2. Then install the "BSD Print Spooling System". For SuSE>= V6.4 "LPROLD from Network Support"; TCP/IP, UUCP, Mail, News. If you use another UNIX operating system please refer to the corresponding manual!
3. Go to the folder "C:\ Program Files\ RW-480\ RW-480\ PLOTBASE\ TOOLS\ PLOTCLIENT\_LPR" on the Windows computer of RW-480 PLOTBASE and copy the file "printcap\_sample" to UNIX as the file "/etc/printcap".
4. Adjust this file "/etc/printcap" to your network environment. The end of the file should include more or less the following:

```
lp | remote printer on <IP_Of_ServerPC>:\  
:sd=/var/spool/lpd/lp:\  
:rm=<IP_Of_ServerPC>:\  
:rm=<IP_Of_Shared_Winprint32>:\  
:bk:sh:mx#0:
```

5. Restart the print service. For SuSE >= V6.4 "rclpd restart".

## **Print jobs on UNIX using lpr**

If you have entered all the settings described above, you can use the lpr command as follows to send print jobs to the RW-480 PLOTBASE via RW-480 WINPRINT:

1. Open the prompt on the UNIX computer.
2. Enter the following command:

```
lpr -P <printeralias_from_printcap> -l <filename>
```

## RW-480 PLOTCLIENT FTP

You can use the ftp protocol or command to send print jobs to RW-480 PLOTBASE without having to use an application program. It also only requires a few presets and one command line. This printing option is especially intended for UNIX users.

### Configuration on Server PC with Windows

1. Start your Windows computer with RW-480 PLOTBASE as the administrator.
2. Use "Start – Settings – ControlPanel – Add/Remove Programs – Add/Remove Windows Components – Networking Services" to ensure that the TCP/IP-protocol is installed.

### Print jobs on Windows using ftp

If you have entered all the settings described above, you can use the ftp command as follows to send print jobs to RW-480 PLOTBASE via the RW-480 WINPRINT:

1. Open the Prompt on the Windows computer of RW-480 PLOTBASE.
2. Change to the folder containing the files to be printed.
3. Enter the command "ftp [computer name or computer-IP]". The system changes to the ftp subsystem and sets up a network link to the required computer.
4. You are now asked for the name of the user. Enter "anonymous" and confirm with the return key.
5. Confirm the password query by simply not entering a password.
6. Now enter the "binary" command for transmission in binary mode and confirm with the return key.
7. Change to CFG folder using the command "cd cfg".
8. Enter the following command if you want to print one file. If you want to print several files, proceed with Item 8. For one file, the command is:

put <filename>



```
= put graphics.tif
```

9. If you want to print several files at once, enter the following command:

```
mput <filename> <filename> ...  
= mput graphics.tif city.plt
```

10. If a file comes from another folder than the current folder, enter the path as well as the file name, as shown in the following:

```
mput <filename> <path>\<filename>  
= mput graphics.tif tmp\city.plt
```

If you send a file without print parameters to RW-480 PLOTBASE, the RW-480 PLOTBASE basic settings are used. If you want to send your own print parameters with the plot, you have to first send the CFG file, which must have the same name as the graphic file, and then send the graphic file itself!



**Attention:** Always send the CFG or SSL file with your print parameters first, then send the graphic file. Otherwise there is a risk that RW-480 PLOTBASE begins to print your file before it has received your own print parameters for the print (CFG or SSL file):

```
mput graphics.cfg graphics.tif
```

## Configuration on UNIX

1. Install the "General Network Services" – TCP/IP.
2. Then install the "BSD Print Spooling System". For SuSE>= V6.4 "LPROLD from Network Support"; TCP/IP, UUCP, Mail, News.

## Print jobs on UNIX using ftp

If you have entered all the settings described above, you can use the ftp command as follows to send print jobs to the RW-480 PLOTBASE via RW-480 WINPRINT:

1. Open the prompt on the UNIX computer.
2. Change to the folder containing the files to be printed.
3. Enter the command "ftp [computer name or computer-IP]".  
The system changes to the ftp subsystem and sets up a network link to the required computer.
4. You are now asked for the name of the user. Enter "anonymous" and confirm with the return key.
5. Confirm the password query by simply not entering a password.
6. Now enter the "binary" command for transmission in binary mode and confirm with the return key.
7. Enter the following command if you want to print a file. If you want to print several files, proceed with Item 8. For one file, the command is:

```
put <filename>  
= put graphics.tif
```

8. If you want to print several files at once, enter the following command:

```
mput <filename> <filename> ...  
= mput graphics.tif city.plt
```

9. If a file comes from another folder than the current folder, enter the path as well as the file name, as shown in the following:

```
mput <filename> <path>\<filename>  
= mput graphics.tif tmp\city.plt
```

If you send a file without print parameters to RW-480 PLOTBASE, the RW-480 PLOTBASE basic settings are used. If you want to send your own print parameters with the plot, you have to first send the CFG file, which must have the same name

as the graphic file, and then send the graphic file itself!



**Attention:** Always send the CFG or SSL file with your print parameters first, then send the graphic file. Otherwise there is a risk that RW-480 PLOTBASE begins to print your file before it has received your own print parameters for the print (CFG or SSL file):

```
mput graphics.cfg graphics.tif
```

---

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