SEALSYSTEMS
THE DIGITAL PAPER FACTORY

WEBportal

System Description

Version 1.1.0

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SEAL Systems

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Contents

1 Introduction

SEAL Systems offers the WEBportal module as a new technique for electronic data distribution. WEBportal is an alternative to the known methods of E-Mail Output and CD Output without the following restrictions:

- E-Mail Output
  restrictions regarding the size of attachments and encoding
- CD Output
  intensive process due to multiple procedures (MS Word, Adobe, etc.) with focus on the creation of CDs and not online distribution of data

Instead of output to paper the documents **are made available surely on a Web server**. The recipient is **informed by e-mail**.

The WEBportal can be used as a **WEBportal printer** within PLOSSYS netdome or as an **independent module**.

1.1 Conventions

The path information given in this manual is relative to the installation directory of the PLOSSYS netdome. This is usually the home directory of the user `plossys`. The path information is given in UNIX notation for the most part. Except when otherwise declared, this notation is equal to the notation under Windows.

1.1.1 Typographical Conventions

The following table lists the typographical conventions employed in this documentation for file names, paths, variables, etc.

Typographical convention	Description
Bold	Definitions of terms; terms to which reference will subsequently be made again; special proprietary names
Times New Roman	Text to be taken literally, e.g., menu items on desktops
`Courier`	File names, paths, commands, key terms, special values, scripts, examples
`Courier italic`	Parameters; placeholders that must be replaced by current values
`Courier small`	More extensive scripts and examples

Table 1-1. Typographical Conventions Employed in this Documentation

1.1.2 Pictograms

As an aid to understanding, warnings and tips are indicated by a pictogram in the margin. The following table lists all these pictograms and their meaning.

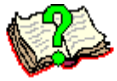
Pictogram	Description
	Handling tips and tricks
	Warning! Pay particular attention here.
	Application example
	Step-by-step instruction
	Command
	Reference to a source with additional information

Table 1-2. Pictograms Employed in this Documentation

1.1.3 Figures

Some of the figures used in this documentation describe step-by-step procedures needed to achieve a specific goal. In such cases, sequentially numbered symbols such as ① will be positioned in the left margin. The number symbols refer to the individual steps which are highlighted in the figure itself by a frame and a reference text. To clarify the sequence, the reference text starts with the number of the step to which it refers.

The text describing the figure generally employs the number symbols to provide a reference to the step being discussed.

1.2 Overview of the Contents

This documentation deals with the following topics:

In order to obtain an overview of the functionality and the concept of the module WEBportal, read Chapter 2, *Application Flow*, page 4. In addition, the technical steps and internal processing of data used in the WEBportal are described.

Chapter 3, *Installation*, page 10, deals with some points of the installation, in particular with the use of the PLOSSYS Web server, respectively an external Web server with the employment as a WEBportal printer.

Chapter 4, *Configuration and Execution*, page 15, deals with the configuration possibilities for both the case of a WEBportal printer within the PLOSSYS netdome and as an independent module. Other possibilities, like switching confirmation mails on or off, the display of additional document data, the restriction of possible recipients, or the support of PGP coding are also described here.

In Chapter 5, *Administration Client*, page 26, the administration client is introduced. This client offers the administrator an overview over all generated Web portals on the current Web server and allows the specific deletion of individually selected Web portals or all Web portals of a certain age.

Chapter 6, *Tips & Tricks*, page 28, contains some general useful information, like hints regarding different possibilities to delete generated Web portals.

Appendix A, *Associated Programs*, page 30 lists all programs and scripts, which are delivered with the module WEBportal.

For an easier overview, a table of figures, table of tables, terminology list, bibliography, and index are included at the end of the documentation.

2 Application Flow

2.1 Overview

usage

The WEBportal can be used both as an output device within PLOSSYS netdome and as an independent module. These two variants differ mainly in the usage:

output device

- If the WEBportal is used as an output device within PLOSSYS netdome, the user simply starts an output job in the respective software or procedure (PAD, RAUC, SAP, NWC) for the output device WEBportal and enters an e-mail recipient.

PDF or TIFF

  The WEBportal processes the output job/order and produces an output format dependent upon the installed output driver, preferably PDF or TIFF. A JPEG thumbnail image is generated for each drawing. All PLOSSYS services such as stamps and watermarks for application of direction element information and set processing are available.

Different output formats are possible by setting up several WEBportal printers with different drivers.

independently

- If the WEBportal is used as an independent module the execution program or script has to collect all necessary data, like document list, Web server, recipient etc., and is to call the WEBportal. A JPEG thumbnail image is generated for each document list entry.

The produced/specified files are made available on the Web server in a personal Web portal.

e-mail

Each recipient is informed by e-mail about the supply of documents on their personal Web portal. In the e-mail, a link to the Web portal is included. The Web portal contains a list of the documents with generated thumbnails. In addition to each document the graphic type, file size and any customized additional document information are indicated. By clicking the respective thumbnail the recipient can arrange a storing, viewing etc. Furthermore there is the possibility to download the complete document set with one click. Over a delete button the Web portal can be and is to be deleted as soon as it is not longer needed.

deleting

Due to a batch job old Web portals can be automatically deleted, see Chapter 6.1, *Deletion of Web portals*, page 28.

security

Each personal Web portal lies on the Web server in its own, secret subdirectory, which only the recipient of the e-mail knows. With Secure HTTP (https) instead of simple HTTP protocol, access can be encoded and additionally made secure against unauthorized interception. Sufficient protection is provided by the secret subdirectory and the encoding of the Web server, leaving user rights administration redundant.

2.2 Intern

2.2.1 Required Data

The WEBportal needs the following information: needed data

- e-mail-address of the recipient

mail-distributor

> Instead of a recipient a mail distributor file can also be used with the output via e-mail. This option is only available when using a WEBportal printer!

- e-mail address of the sender
- smtp server for dispatching the e-mail
- base URL of the Web portals, with which the recipient has access to the documents
- file list of file names and document data

This information is supplied differently according to their employment: provision

- employment as WEBportal printers:
  with the output script `seal.webportal.pl` over the Perl library `libplotter.pl`
  thereby the e-mail addresses of the recipient, sender, and subject of the e-mail header are chosen, Chapter 4.1.1, *Adjustments in the plossys.cfg*, page 15, while the smtp server and URL of the Web portal configured in the section of the WEBportal printer in the `plossys.cfg` are taken, see Chapter 4.1.2, *Header Parameter*, page 16.
- employment as independent module:
  as a parameter upon execution of `webportal.pl`, see Chapter 4.2.1, *Call Parameters*, page 18.

2.2.2 Actions

The WEBportal implements the following actions, see Figure 2-1, page 7:

1. In the directory `data/webportal` for each order a special **subdirectory** is created. The name of the subdirectory is a **random 20 character digit and letter combination**. This serves to keep the documents hidden from direct access attempts. The name of the subdirectory is only known to the recipient. The contents of the directory `data/webportal` are not accessible from a browser, in order to help ensure the secrecy of the subdirectories.
2. The **spool files** with the document data are transferred into the secret subdirectory.
3. For each output file a **preview mini picture (thumbnail)** in JPEG format is produced.
4. In the subdirectory several HTML files are generated, which serve the recipient as a **portal**.
5. If several output files are present, which can be possible with set collation or multi page files, **all files are combined into one file** (multi-page PDF, TIFF or ZIP) and can be downloaded from the Web portal.
6. All available information is provided in the **`accessinfo.txt`** file located in the special subdirectory. When using a WEBportal printer, this information is stored as header entries.
7. If a file exists on `tools/webportal/ftpconnect`, the completed portal is transferred **by FTP** to another computer e.g. to an Internet Web server, see Chapter 3.2, *Installation as Independent Module*, page 11.
8. An **e-mail** is sent to the **recipient**, see Figure 2-2, page 8.
9. A **confirmation mail** is sent to the **sender**, in order to inform them about the success or failure of the creation of the portal and the mail dispatch, see Figure 2-3, page 8.

The delivery of a confirmation mail can be stopped via the entry `CONFIRM_SENT` in the `webportal.cfg` configuration file under the section `[MAIL]`, see Chapter 4.3.1, *Confirmation Mail*, page 22.

10. After the recipient obtained the mail and has activated the URL in the mail, an **acknowledgment of receipt** is sent away to the client, see Figure 2-4, page 9.

This is only possible in the Intranet, if sender and recipient can address the same SMTP server!

The delivery of an acknowledgment of receipt can be stopped via the entry `CONFIRM_ACCESS` in the `webportal.cfg` configuration file under the section `[MAIL]`, see Chapter 4.3.1, *Confirmation Mail*, page 22.

The recipient receives the image in the browser, which is explained in Figure 2-5, page 9.

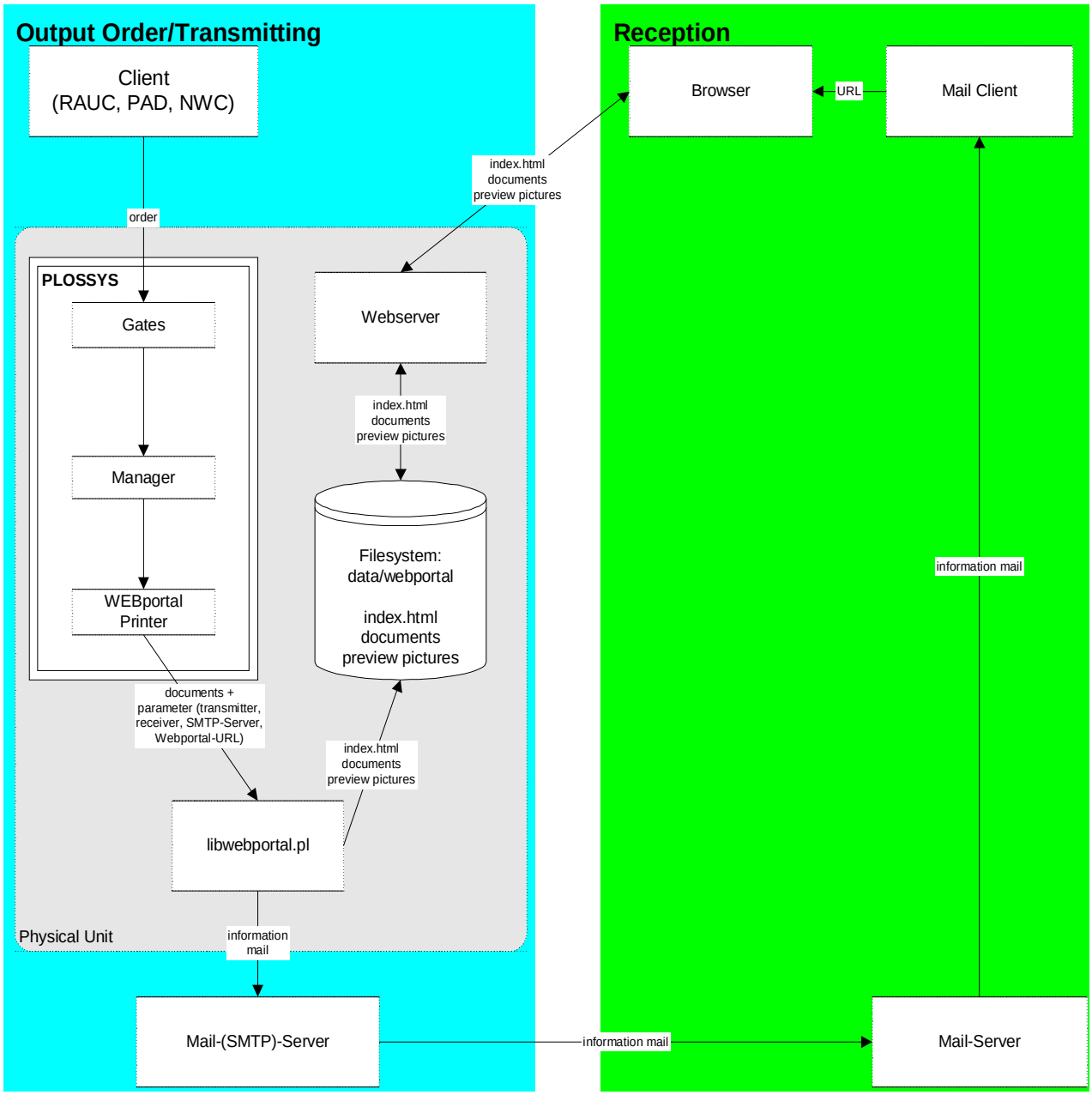


Figure 2-1. WEBportal - Work Flow

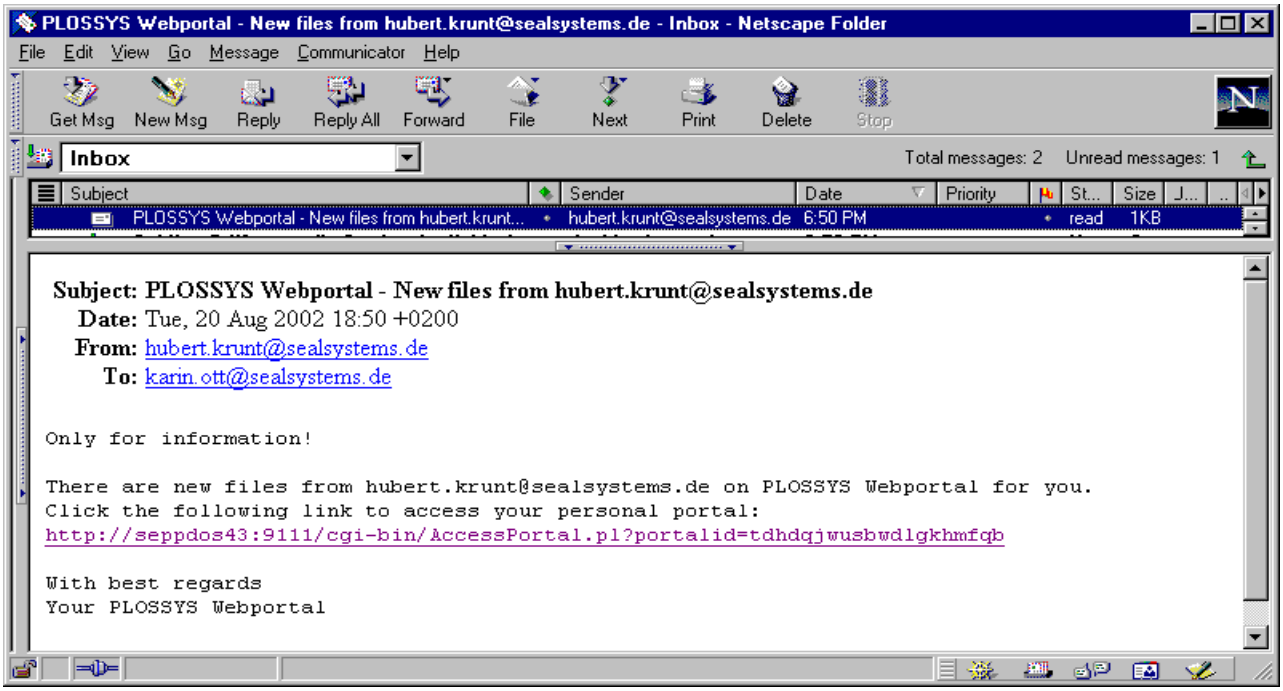


Figure 2-2. E-mail With Access to a Web portal

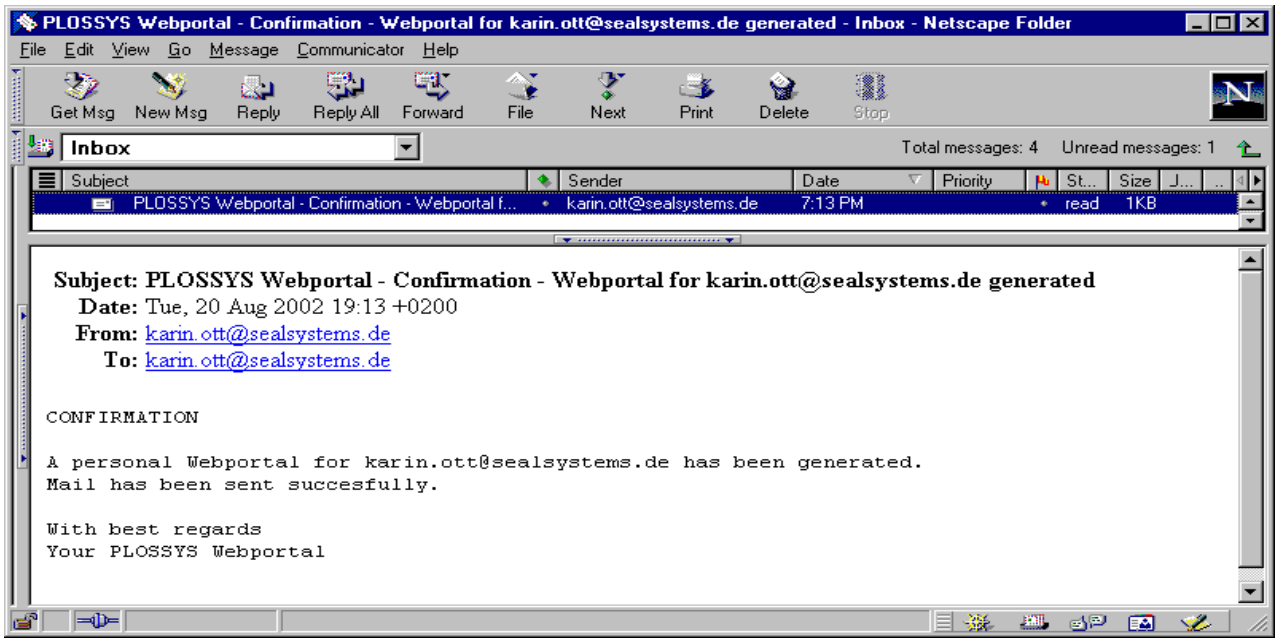


Figure 2-3. E-mail Confirmation of the Web portal Creation

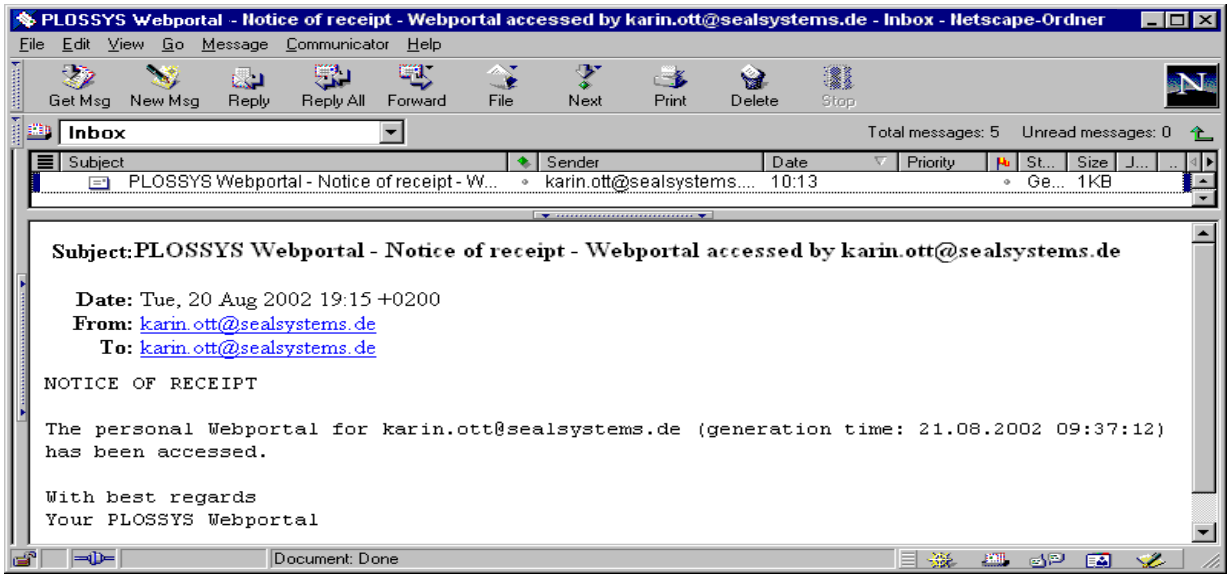


Figure 2-4. E-mail Acknowledgement of Receipt (Recipient has Entered the Web portal)

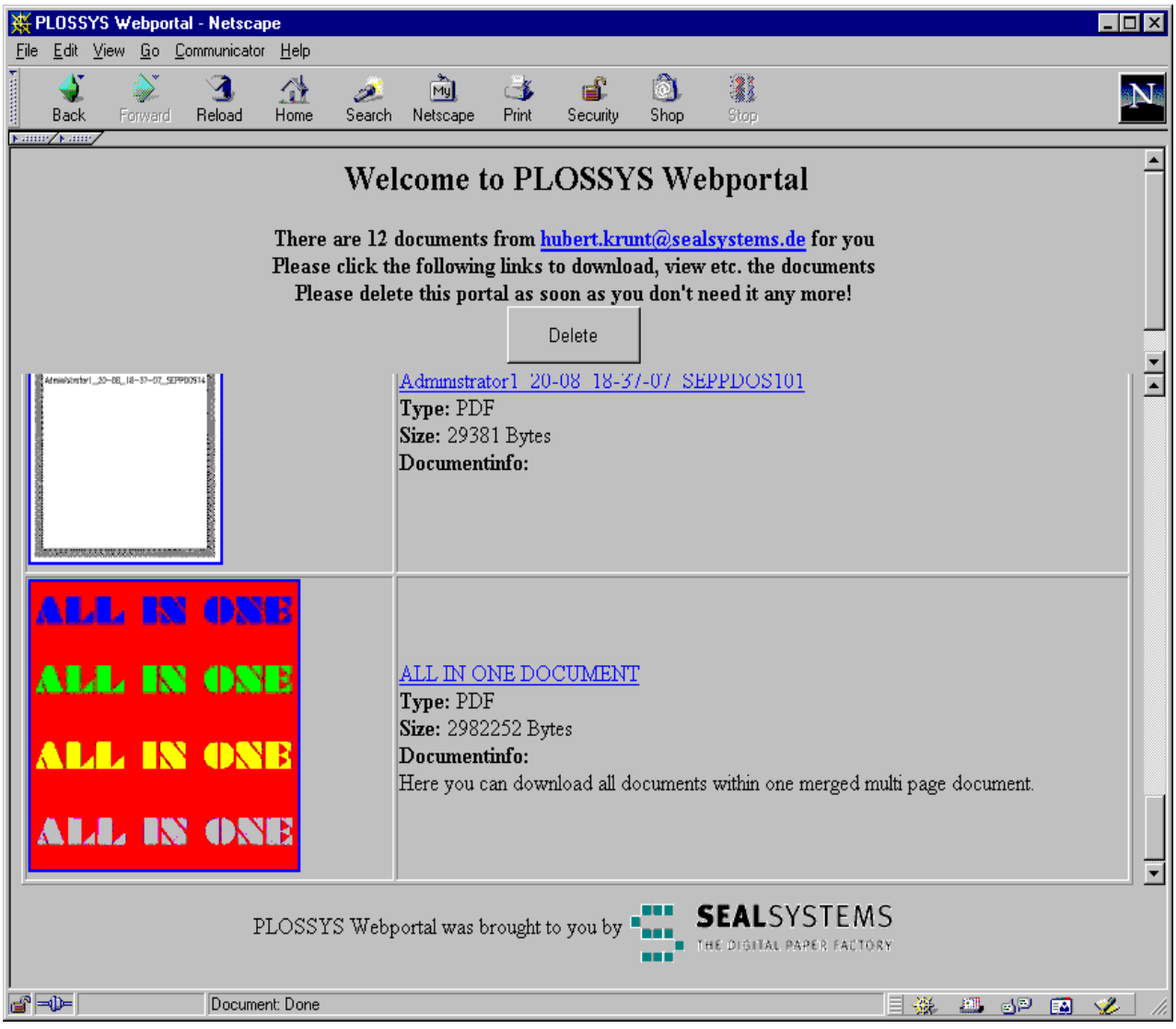


Figure 2-5. Web portal Within the Browser

3 Installation

independently/ WEBportal printer

The WEBportal can be installed as a WEBportal printer within an output management system from SEAL Systems or as an independent product (Chapter 3.2, *Installation as Independent Module*, page 11 and Chapter 3.1, *Installation as a WEBportal Printer*, page 10).

Intranet/Internet

In both cases, the next step is to choose between the internal Web server (Intranet) and an external Web server (Internet), which might already exist, to provide the Web portals for the users (Chapter 3.3, *Use of an External Web server*, page 11). The internal Web server configuration is delivered as a standard.

condition

To ensure the access of the e-mail recipient to its Web portal, a **Web server** must be installed and running.

The WEBportal is a package of its own and therefore compatible with PLOSSYS netdome, gXnetplot or other third party products. The following chapters describe the installation within PLOSSYS netdome.

3.1 Installation as a WEBportal Printer

WEBportal printer

The WEBportal is similar to an output driver in PLOSSYS netdome and can be installed accordingly. It essentially corresponds to the output via e-mail, only that the documents are not sent by e-mail as attachments, but are available on the Web server.

internal Web server

In the standard case the delivered, internal Web server is used and access is established by Intranet. For the installation please carry out the following steps:

1. Call `setplossyscfg.pl` and install the Apache Web server. Please note the entered port number!
2. At the installation of WEBportal with `installplotter.pl` (`installplotter.pl` is called automatically after `setplossyscfg.pl`, if desired), enter the port number of the Apache Web server for the entry `QUEUE` in the following form:
   `Mail Server/Default Recipient/http://host:port`

installplotter.pl

After each call of `installplotter.pl`, the script `setplossyscfg.pl` has to be rerun and also the **Web server has to be installed again**, so that all links and scripts are correctly adapted!

3.2 Installation as Independent Module

independently

If the WEBportal is used as an independent module, only the WEBportal package has to be installed and configured, see Chapter 4.2, *Employing as an Independent Module*, page 17.

internal Web server

To install the delivered, internal Web server, please follow these steps:

1. Execute **`apa`** to change to the `server\web\apache` directory.
2. Adapt the **`apache.cfg`** file to your environment.
3. Install the Apache Web server with `setplossyscfg.pl` (which executes **`install_apache.pl`** inside). This way the scripts are adapted to the current environment, e.g. the correct perl path and the specified values from `apache.cfg` are registered.
4. Start the Web server with **`webstart`**.

3.3 Use of an External Web server

If the WEBportal is called within the Internet and due to security reasons the Web server is to be called on a different server than the original server where the Web portal is generated, additional points are to be considered:

application flow

1. The **Web portal** is generated on the server, where the WEBportal is installed - as a WEBportal printer or as an independent module.
2. The Web portal is transferred by **FTP to the Internet Web server**.
3. The Web portal is deleted on the original server, where it was generated.
4. An e-mail is sent to the recipient.

restriction

For the use of an external Web server, only the portal access is provided as restricted functionality. The e-mail transmission of confirmation mails when the portal is entered is not possible.

requirement

For the use of an external Web server, some settings must be performed both **on the server, where the WEBportal is installed, and on the external Web server itself**.

3.3.1 Configuration at the WEBportal server

ftpconnect

The FTP transfer begins as soon as the file `ftpconnect` in the directory `tools/webportal` exists. This file contains the FTP entrance data to the Internet Web server and initial FTP instructions.

template

For the file `ftpconnect` a template `ftpconnect_tpl` with example defaults is available in the directory `tools/webportal`.

Example for `ftpconnect`:

```
open sealsystems.de     # establish FTP-Connection
user sealsystems seal   #
cd webportal            # change to webportal directory
```

set URL

When using as a WEBportal printer, the URL of the external Web server has to be set as `QUEUE` in the WEBportal section of `plossys.cfg`, see Chapter 4.1.1, *Adjustments in the plossys.cfg*, page 15.

At the usage as an independent module, the URL of the external Web server has to be specified as call parameter, see Chapter 4.2.1, *Call Parameters*, page 18.

3.3.2 Settings for the external Web server

On the external Web server the following conditions must be fulfilled:

1. **Perl (at least version 5.005_02) must be installed.**
2. The following CGI scripts must be accessible over URL, e.g. by copying them into the directory `cgi-bin`:
   - **`AccessPortal.pl`**
     (Source: `server/web/apache/cgi-bin/AccessPortal.pl_extern`)
   - **`DeletePortal.pl`**
     (Source: `server/web/apache/cgi-bin/DeletePortal.pl_extern`)
   - **`cgi-lib.pl`**
     (Source: `tools/cgi-lib.pl`)

   They are addressed over the following URL:

   `http://www.firma.com/cgi-bin/AccessPortal.pl`

   `http://www.firma.com/cgi-bin/DeletePortal.pl`

   `http://www.firma.com/cgi-bin/cgi-lib.pl`

restriction

The script versions *xxx*`_extern` contain the base functionality, which for example does not support the transmission of confirmation mails. An extended installation of the SEAL Systems environment on the external Web server would be required for this.

You can adapt this installation according to your requirements in cooperation with your technical project manager at SEAL Systems, if more than the base functionality should be provided.

3. In the scripts specified above the **Perl path** must be adapted.
4. The **directory** `webportal` must exist. This directory serves as the basis directory for the Web portals which are to be created.

ftpconnect

Please change into this directory in the file `ftpconnect`.

5. The following files have to be copied into the directory `webportal`:
   - **`index.html`**
     (source: `tools/webportal/index.html`)
   - **`.htaccess`**
     (with the line: `Options -Indexes`)
6. Create an **alias** for the Web server with the name *webportal*, which points to the directory `webportal`, so that the directory with the following URL is accessible:

   `http://www.firma.com/webportal`

3.3.3 Usage of Intranet/Internet Web server - Overview

Table 3-1 describes the conditions and settings, which are necessary for the use of the delivered, internal Web server (Intranet) and/or an external Web server (Internet). Switching between both is possible, if the appropriate conditions during the installation are made, see Chapter 3.3.1, *Configuration at the WEBportal server*, page 12 and Chapter 3.3.2, *Settings for the external Web server*, page 13.

Usage of the internal Web server (Intranet)	**Usage of an external Web server** (Internet)
`tools/webportal/ftpconnect` does not exist	`tools/webportal/ftpconnect` exists
Usage as a WEBportal printer: • URL of the internal Web server for `QUEUE` at the WEBportal section of the `plossys.cfg` • no stop/start of the printer after any changes necessary Usage as an independent module: • URL of the internal Web servers as call parameter	Usage as a WEBportal printer: • URL of the external Web server for `QUEUE` at the WEBportal section of the `plossys.cfg` • no stop/start of the printer after any changes necessary Usage as an independent module: • URL of the external Web server as call parameter

Table 3-1. Delivered, Internal / External Web Server - Comparison

4 Configuration and Execution

4.1 Employment as a WEBportal Printer Within PLOSSYS netdome

configuration

SMTP server, URL of the Web portal, default sender and default recipient are configured in the section **WEBportal printer of the `plossys.cfg`**. The e-mail address of the recipient and of the sender, the subject and additional mail text is set up with **header adjustments**.

call

The execution takes place automatically when the WEBportal printer is started within the PLOSSYS netdome.

4.1.1 Adjustments in the `plossys.cfg`

`plossys.cfg`

The following entries must be set in the `plossys.cfg` in the section of the WEBportal printer:

```
OUTPUT    WEBPORTAL
QUEUE     SMTPServer/MailAddress/http://WebServer[:Port]
```

Example of `OUTPUT` and `QUEUE` in the **`plossys`**`.cfg`:

```
[WEBportal]
OUTPUT = WEBPORTAL
QUEUE = sepp.de/otto.burg@sealsystems.de/http:seal1:9222
```

The mail address indicated for `QUEUE` is used as preset for the recipient and/or sender, if the appropriate header parameter `PLS_RECEIVER` and/or `PLS_SENDER` is not set.

4.1.2 Header Parameter

Table 4-1 indicates the header parameters, from which the data necessary for the WEBportal are determined.

Parameter	Description
PLS_MAILTEXT	Besides the automatically generated text within the e-mail, an **additional text** can be indicated with the parameter PLS_MAILTEXT, which is placed in front of the automatically generated text.
PLS_RECEIVER	The address of the **e-mail recipient** is determined from the parameter PLS_RECEIVER. With set collation this parameter should be present in the set order, otherwise it has to be available in the single job. If the set parameter is missing or is empty, then the single jobs are scanned and the entry of PLS_RECEIVER, the first instance in any job, is used. Usage as WEBportal printer: If the recipient is specified with *%Name%*, the name is resolved from the mail address table. If no parameter allocation is found, the user name is used and resolved from the mail address table. If this is also not possible the default address specification from the plossys.cfg is used.
PLS_SENDER	The address of the e-mail senders is determined from the parameter PLS_SENDER. The procedure of determining this is identical to that of the e-mail recipient.
PLS_SUBJECT	The e-mail subject can be set with the parameter PLS_SUBJECT. If this parameter is not set, a predefined text is entered for the subject.

Table 4-1. WEBportal as an Output Device - Header Parameter

address table

Usage as WEBportal printer:

If a mail address table should be used, it must be available as server/plotserv/plotter/mail_address_table.cfg.

4.2 Employing as an Independent Module

If the WEBportal is used as an individual module, the necessary data has to be transferred with the call parameters, see Chapter 4.2.1, *Call Parameters*, page 18.

configuration

With these parameters, the script **`webportal.pl`** is started.

call

In a **perl script,** the method of **`MakePortal`**, which is included in `libwebportal.pl`, with the according call parameters can be used.

`webportal.pl` example execution:

```
webportal.pl
   -server sepp.de
   -receiver Hans.Gottschall@sealsystems.de
   -sender Ken.Proon@sealsystems.de
   -url http://sealdos36:9000
   -filelist D:\plossys\server\plotserv\tmp\xyz23456.list
```

4.2.1 Call Parameters

Table 4-2 lists the parameters, which include all necessary files for the WEBportal.

Parameter	**Usage**	Meaning
-filelist	mandatory	List with the names of the files which are to be made available
-h	optional	Supplies a description of the valid call parameters.
-mailtext	optional	Additional e-mail text, which is placed in front of the automatically generated text. By means of '\n' line breaks can be forced. Instead of a text, a text file, which contents are used, can be indicated also.
-notremove	optional	Flag, which indicates whether the transferred files are supposed to be deleted (0) or not deleted (1) afterwards. Default is 1 (delete).
-receiver	mandatory	E-mail address of the recipient
-sender	mandatory	E-mail address of the sender (client)
-server	mandatory	SMTP Server to mail dispatching
-subject	optional	E-mail subject; if it is not specified, a standard subject is generated
-url	mandatory	Base URL of the Web portals

Table 4-2. WEBportal as an Individual Module - Call Parameters

4.2.2 Structure of the File List

The file list, which is handed over with the parameter `-filelist`, contains its own section for each document. The section names can be freely chosen, but must clear within the file list. Start counting the sections from zero on might be the easiest way.

`-filelist`

The entries within the sections have the following format:

```
key = value
```

format

Each section has the following **mandatory** entries:

id	**document index**
file	**spool file with path**

In addition, the following **optional** entries within the particular document section are evaluated:

optional

type **file type**, e.g. PDF or TIFF

If this entry is not set, the type is determined automatically on the basis of file information and indicated in the Web portal.

assocfile **associated file**

This entry can occur several times in the document section. It contains the name of one associated file with complete path specification. With this, the original CAD drawings can additionally be displayed to the corresponding document in the Web portal.

For each document further information can be entered, from which additional document information can be generated. This document information is available in the Web portal, if configured in the `webportal.cfg`, see Chapter 4.3.1, *Confirmation Mail*, page 22.

document information

A section `[GLOBAL_INFO]` can be optionally added. This section may contain the following entries:

`[GLOBAL_INFO]`

MAIL_SUBJECT	mail subject
MAIL_TEXT	additional mail text

The mail text can thereby also be a text file, of which the contents are then used.

If the mail subject or additional mail text are also set over the call parameters, the values of the call parameters are used.

file list

Example of a file list without additional document information:

```
[GLOBAL_INFO]
MAIL_SUBJECT = first draw- please check
MAIL_TEXT = /home/txt/mailtext_proof.txt

[0]
file = C:\plossys\data\plotserv\spoolfiles\pl000090.tif
id = motor_part_a1
type = TIFF
[1]
file = C:\plossys\data\plotserv\spoolfiles\pl000091.ps
id = motor_part_b1
type = Postscript
[2]
file = C:\plossys\data\plotserv\spoolfiles\pl000092.pdf
id = motor_part_c1
type = PDF
```

4.3 Configuration Possibilities

webportal.cfg

The optional **webportal.cfg** configuration file is located in the **tools\webportal** directory on the WEBportal server. The following can be adjusted in the configuration file:

- When are **confirmation mails** transmitted to the Web portal sender?
- (Chapter 4.3.1, *Confirmation Mail*, page 22)
- How are **additional document information** displayed in the Web portal?
- (Chapter 4.3.2, *Additional Document Information*, page 23)
- How can the possible **recipients** of Web portals **be restricted**?
- (Chapter 4.3.3, *Recipient Restriction*, page 24)
- How can **PGP coding** be used?
- (Chapter 4.3.4, *PGP Coding*, page 25)

4.3.1 Confirmation Mail

section [MAIL]

The **`[MAIL]` section** specifies, if an e-mail should be transmitted to the sender when the Web portal is generated and the notification e-mail sent to the recipient and/or when the recipient has accessed the Web portal.

acknowledgment of receipt

`CONFIRM_ACCESS` **`Bool`**

`Y`	Acknowledgment of receipt is sent.
`N`	Acknowledgment of receipt is not sent.

Dispatch an acknowledgment of receipt to the client, as soon as the recipient clicks on the URL in the e-mail and thereby enters the Web portal in the Browser.

confirmation mail

`CONFIRM_SENT` **`enumeration`**

`ALWAYS`	Confirmation mail is always sent
`ERROR`	Confirmation mail is only sent in the case of error.
`NEVER`	Confirmation mail is never sent.
`SUCCESS`	Confirmation mail in only sent in the case of success.

Dispatch a confirmation mail to the sender for information about the status of the Web portal creation and mail dispatch.

If the configuration file `webportal.cfg` is missing, confirmation mails are always sent.

Example for a configuration file `webportal.cfg`:

The sender of the Web portal should only receive an e-mail, if an error occurs during the generation of the Web portal or the e-mail transmission to the recipient.

```
[MAIL]
CONFIRM_SENT     = ERROR
CONFIRM_ACCESS   = N
```

4.3.2 Additional Document Information

In the **`[INFO]` section** the additional data are specified which are displayed for each document in the Web portal in addition to the document ID, the type and the size.

section [INFO]

`info` **`character string`** auxiliary info

`xxx` entry in the file list

The entry indicated here is searched in the transferred file list in the document section. Depending upon the setting of `VISUALIZE_TYPE`, only the value, the key or the entire entry from the file list is visible additionally for each document under the keyword *document information* in the Web portal.

As many lines `info` can be added in the section `[INFO]` as desired. Their sequence in this section specifies the indicator sequence in the Web portal.

`VISUALIZE_TYPE` **`enumeration`**

`VALUE`	only the value is shown
`KEY`	only the key is shown
`KEYVALUE`	key and value are shown

The entries in the lines `info` are searched for as keys in the document section in the transferred file list and are indicated in the Web portal as additional document information.

If the configuration file `webportal.cfg` is missing, no additional document information are indicated.

Example for a configuration file `webportal.cfg`:

The document status, the document version and the information specified with `PLS_DATA_0` is displayed in the Web portal.

```
[INFO]
VISUALIZE_TYPE   = VALUE
info             = Status
info             = Version
info             = PLS_DATA_0
```

The document sections in the file list should therefore contain the following entries:

```
[0]
file         = C:\tmp\pl000090.tif
id           = motor_part_a1
type         = TIFF
Status       = released
Version      = 2.4
PLS_DATA_0   = only for information
```

4.3.3 Recipient Restriction

section [MAIL]

In the **`[MAIL]` section** valid recipients of a Web portal notification can be specified.

valid recipients

`allowed`	**`character string`**
`xxx`	valid recipient of a Web portal notification

For safety reasons the valid recipients can be restricted. Before transmitting of the Web portal to the recipient, the recipient´s mail address is checked to match with one of the specified `allowed` lines. Only if it matches, the Web portal is generated and transmitted to the e-mail address of the recipient.

wildcards

Possible wildcards are **`?`** and **`*`**. **`?`** matches one character, **`*`** matches several characters of any type.
Multiple `allowed` lines can be specified in the `[MAIL]` section.

Example for a configuration file `webportal.cfg`:

In this example, it would only be possible to send Web portals to members of department dev01 at the company laro.

```
[MAIL]
allowed          = *_dev01@laro.*
```

4.3.4 PGP Coding

In the **`[PGP]` section,** it can be specified, whether the e-mail with the Web portal access data and/or the documents within the Web portal should be encoded with PGP.

section [PGP]

requirement

An installed and executable PGP system is required. This is not provided by SEAL Systems!

The recipient´s mail addresses must be used as keys for the PGP system.

`MAIL`	**`bool`**	e-mail coding
`Y`	The e-mail containing the Web portal access will be coded.	
`N`	The e-mail is not coded.	
`FILES`	**`bool`**	document coding
`Y`	The documents in the Web portal will be coded.	
`N`	The documents are not coded.	
`PATH`	**`character string`**	PGP program
`xxx`	directory with the PGP coding program	

Example for a configuration file `webportal.cfg:`

The e-mail with the Web portal access is be coded with PGP.

```
[PGP]
MAIL            = Y
FILES           = N
PATH            = d:\programs\pgp\bin
```

5 Administration Client

functionality

An **English administration client** is provided for administrators, see Figure 5-1, for the following purposes:

- overview over the existing portals (portal ID, sender, recipient, creation time, enter time, ID of the containing documents); it is possible to sort the portals by these different parameters
- selective deletion of portals
- deletion of portals depending on their creation time
- unnoticed portal entering
- easy sending of e-mails to sender or recipient
- password protected client surface

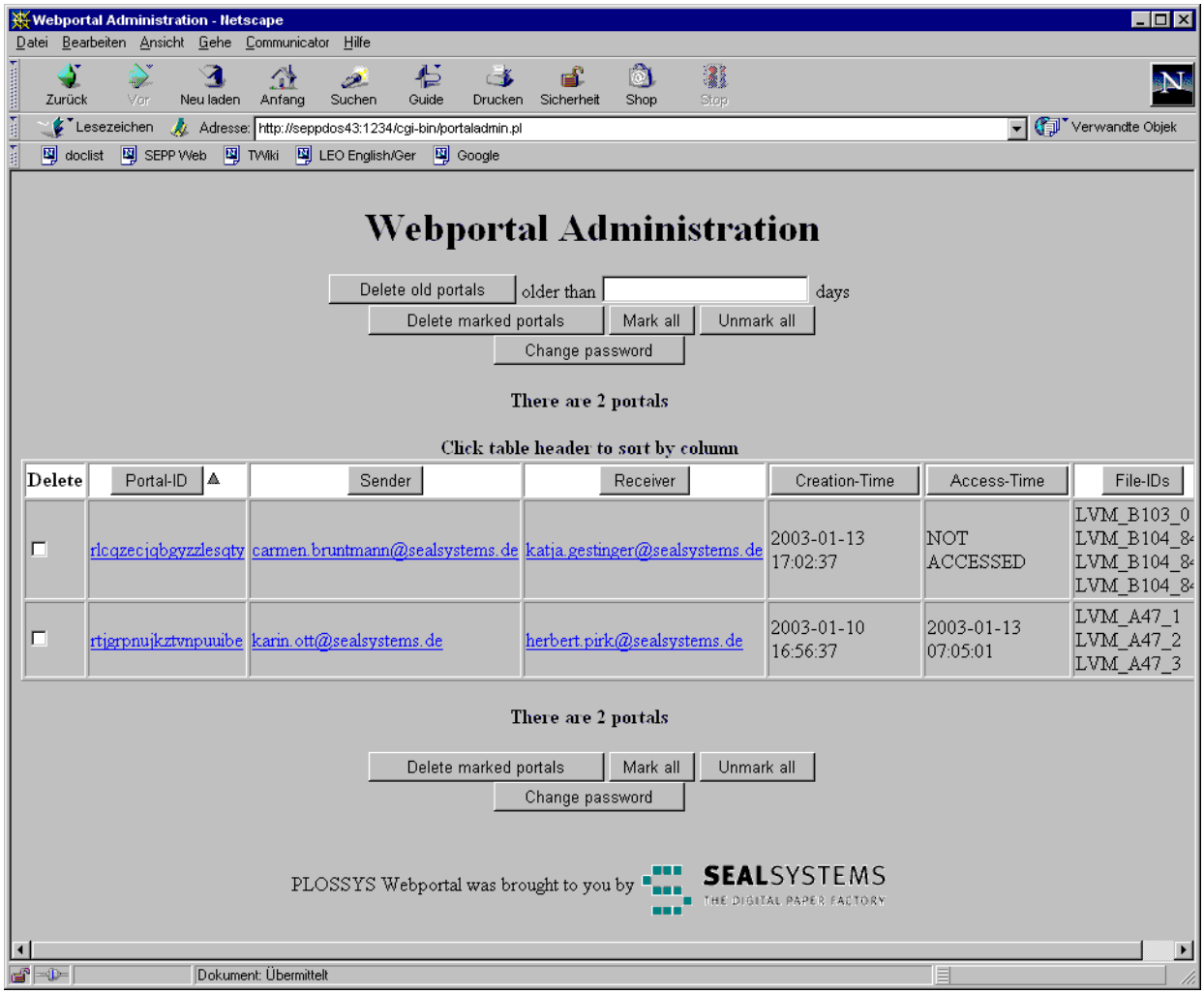


Figure 5-1. Administration Client - Example

Previous to the first call of the administration client the following requirements must be met: requirement

1. The Web server with the generated special subdirectories containing the Web portals must be started.
2. If an external Web server is used, the following files must be copied to the external Web server:
   - `cgi-bin\portaladmin.pl`
   - `htdocs\portalres\*`
   - `htdocs\index.html`

The administration client is called in the browser: call

`http://`*`Webserver`*`[:`*`Port`*`]/cgi-bin/portaladmin.pl`

6 Tips & Tricks

6.1 Deletion of Web portals

Apart from the interactive deleting of the Web portals through the delete button or the deletion via the administration client, a script can be set up, which in configurable intervals, e.g. each night, deletes old Web portals. For that purpose the script `deleteOldPortals.pl` in the directory `tools/webportal` can be used.

deleting

Example for the execution of `deleteOldPortals.pl` on a Windows system as a command of `seppservice`:

```
c:\seal\setenv.bat tools\webportal\deleteOldPortals.pl
                   -days 5
```

Under Windows one process each day can be specified as batch job using the `seppconfig.exe` program.

7 Changes

7.1 Changes in Version 1.1.0

- An **English administration client** is provided for administrators for the following purposes: (administration client)
  - overview over the existing portals (portal ID, sender, recipient, creation time, enter time, ID of the containing documents); it is possible to sort the portals by these different parameters
  - selective deletion of portals
  - deletion of portals depending on their creation time
  - unnoticed portal entering
  - easy sending of e-mails to sender or recipient
  - password protected client surface

  See Chapter 5, *Administration Client*, page 26.
- The **e-mail addresses** to which a Web portal is allowed to be transmitted, can be **restricted via configuration**, see Chapter 4.3.3, *Recipient Restriction*, page 24. (address restriction)
- The **documents in the Web portal and the confirmation mail** can be **coded by PGP**, see Chapter 4.3.4, *PGP Coding*, page 25. (PGP coding)
- **Associated files** are available in the Web portal. If one or more additional files exist for a document, these are offered in the Web portal for viewing/ download in addition to the document. When using as a WEBportal printer, the associated files are taken into account automatically. When using as a independent module the associated files must be explicitly specified in the file list, see Chapter 4.2.2, *Structure of the File List*, page 19. (associated files)
- **All information from the Web portal file list** (in case of the usage as a WEBportal printer within the PLOSSYS netdome these are all header entries) are provided in the **accessinfo.txt** file. (file **accessinfo.txt**)
- The **JPG thumbnail images are saved in progressive mode.** Therefore, the image is built up slower, but it is displayed faster if a low-performance connection is used. (progressive JPG thumbnails)

Appendix A Associated Programs

The WEBportal software consists of the components listed in Table A-1.

Component	Description
`libwebportal.pl` (tools)	a Perl library, which is called from `libplotter.pl` (with employment as WEBportal printers) or from `webportal.pl` (with employment as an independent module) and which makes the WEBportal functionality available
`webportal.pl` (tools/webportal)	independent script, executable with appropriate parameters, which uses `libwebportal.pl`
`tools/webportal/de/*` `tools/webportal/en/*`	HTML templates (German and English) and pictures, from which the Web portal is generated. Support of additional languages is optionally possible.
`webportal.cfg` (tools/webportal)	optional configuration file for the definition of additionally indicated document information in the Web portal and for definition whether a confirmation mail is to be sent
`DeletePortal.pl` (server/web/apache/cgi-bin)	CGI script, which is activated, if the recipient in the Web portal activates the delete button and thereupon this Web portal with all documents is deleted
`AccessPortal.pl` (server/web/apache/cgi-bin)	CGI script, that establish the access to the Web portal and sends an acknowledgment of receipt to the sender
`deleteOldPortals.pl` (tools/webportal)	Script, which can be activated in configurable intervals, e.g. each night, and deletes all Web portals, which have achieved a certain age
`de.pm and en.pm` (tools/seppperl/language/ webportal)	language tables for `libwebportal.pl`

Table A-1. WEBportal software - Components

The script `webportal.pl` is not needed for the employment of the WEBportal as WEBportal printer!

List of Figures

List of Tables

Bibliography

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[TOMAS_USR] *Tool Tomas - Management PLOSSYS System*, User Manual, SEAL Systems[1]

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[WININT_USR] *WIN Link (PLOSSYS Windowsintegration)*, User Manual, SEAL Systems

1. only available in German

Terminology

The following section explains the most important terms that are used in this documentation. Terms identified by → refer to other terms in this section.

Actual output size — Actual size of a drawing. This size is entered in the header as `PLS_PLOTSIZE`. It is specified in the form of *`xmin ymin xmax ymax`*. This means, that the X/Y-coordinates of the bottom left-hand corner and the top right-hand corner are specified.

Console — User interface of PLOSSYS netdome in alphanumeric or graphic form. →*user console*, →*operator console*, →*local operating console*

Converter — →*gate converter*

Default header — →*header* with presets for the →*header items*.

Drawing lettering — →*flagpage*

Driver — →*output driver*

Extension — →*file extension*

File base name — File name without directory specification and file extension.

File extension — →*Extension* of the file name.

Flagpage — Lettering line in the margin of the drawing.

Format converter — Program for converting a drawing from one graphic format into another, usually into the GKMS format or the TIFF format.

Gate — Job input for PLOSSYS netdome. There is a separate gate for each graphic format supported by PLOSSYS netdome. It consists of
1. the →*gate directory*,
2. the →*gate process* and
3. the →*gate converter*.
Special gates: →*main gate*, →*set gate*, →*gate25*

Gate converter — The format converter called up by the →*gate process*.

Gate directory — File directory into which incoming →*jobs* are copied.

Gate process — Process which converts the image files into another graphic format, and then passes them on to be output.

Gate25 — Script in the PLOSSYS directory `server/plotserv` (short `pls`, `$PLSPLS`) which initiates a corresponding →*gate process*, depending on the parameters (e.g. the HPGL gate process.)

Graphic file — File which contains the graphic information of the drawing.

Header — →*job header*

Header file — →*job header*

Header item — Entry in the →*job header* which consists of a key word and a value.

Individual printer — Really existing output device.

Information lines — Additionally to the →*flagpage* up to 10 lettering texts on the output job.

Inscription — →*flagpage*

Image file — →*graphic file*

Job — A drawing which is to be output by PLOSSYS netdome.
A job is accepted by PLOSSYS netdome, if the following files are copied to the respective →*gate directory*:
1. →*graphic file* with correct file extension (example: `example.hpgl`)
2. possibly the →*job header* (example: `example.hed`)

3. possible additional files such as color and pen tables

4. and finally the →*ready file* (example: `example.rdy`)

Job header File in ASCII format with items for configuring the →*job*.

Job input directory →*gate directory*

Local operating console→*Console* via which the operator of PLOSSYS netdome can access all the output devices that have been assigned to this local operating console. The local operating console is allocated to an →*operator console*, and each output device is allocated to a local operating console.

Log file File with log information.

Maingate →*maingate*

Main gate All the jobs preprocessed by the other →*gates* are copied to the `maingate` directory and are processed further there.

Metafile File in the →*metaformat.*

Metaformat Standardized graphic format (e.g. GKSM, CGM, TIFF/G4).

Multi-drawer Output device with several media trays or rolls. The device is configured by a section in the →*system configuration file* and by a →*printer configuration file.*

Multi-roll device →*multi-drawer*

Multi-tray device →*multi-drawer*

Operator console →*Console* via which the operator can control all the output devices and jobs in the system.

Output device Printer on which the drawing is output.

Output driver Program for controlling an →*output device*.

Output job →*job*

Output parameters Settings for processing and outputting a →*job*.

Permissible output size Symbolic definition of a drawing size in the printer configuration file.

Plot Drawing printed out.

Pool device Pseudo output device which combines several →*individual printers* to a pool and distributes incoming jobs to its individual printers.

Preprocessor →*Gate process* which usually calls up a format converter.

Preprocessing →*preprocessor*

Preview Display of the contents of graphic file on the screen.

Printer configuration file

Configuration file for →*multi-drawers* as addition to the configuration in the PLOSSYS configuration file `plossys.cfg`.

Ready file File by means of which PLOSSYS netdome is informed, that all the data of a →*job* have been copied to the →*gate directory*, and that the job can be processed now.

RGB value Three float values between 0.0 and 1.0 for the red, green and blue component for the definition of a color value.

Section Section in a configuration file, e.g. the →*system configuration file*. A section consists of several items, i.e. key words with respective values.

Set →*set collation*

Set collation Combined set of →*jobs*.

Set collation header File with items for configuring the →*set collation*.

Set gate	Special →*gate* for handling →*set collations*. Here, the banner and end page are generated and the →*set members* are copied to the respective →*gates*.
Set job	→*set collation*
Set member	→*single job* which forms part of a →*set collation*.
Setgate	→*set gate*
Single-drawer	Output device with one media tray or roll.
Single job	→*job* with one drawing.
Single job header	→*header* for a →*single job*.
Spool file	Final graphic file which is sent to the output device.
Stamp	Graphic element which is applied onto the drawing by PLOSSYS netdome; not to be confused with the →*flagpage*.
Stargate	Preset →*gate* for the automatical distribution of →*jobs* to the installed →*gates*
System configuration file	PLOSSYS configuration file `plossys.cfg` in the PLOSSYS directory `server/plotserv` (short `pls`, `$PLSPLS`).
Tray	Output tray of a printer.
Trigger file	→*ready file*
User console	→*Console* via which user can manage their own jobs.

Abbreviations

ASCII	American Standard Code for Information Interchange
C907	CalComp Format 907 (vector format)
CAD	Computer Aided Design
CALS	Computer Aided Acquisition a Logistic Supports
CCRF	CalComp Compact Raster Format (raster format)
CGM	Computer Graphics Metafile (vector format)
CGP	CADES Format
DIN	German Industry Standard (Deutsche Industrie Norm)
DP	Data Processing
FRANS	File Transfer Software by SEAL Systems
FTP	File Transfer Protocol
GB	gigabyte
GIF	Graphic Interchange Format
GKS	Graphic Kernel System
GKSM	GKS Metafile (vector format)
GKSMR	GKS Metafile in record oriented format
GKSMRW	GKSMR in the case of which the drawing size is taken from the header file.
GKSMS	GKS Metafile in streamed format
GKSMSW	GKSMS in the case of which the drawing size is taken from the header file.
HCBS	Host Computer Basic Software
HPGL	Hewlett-Packard Graphic Language (vector format)
HPGL/2	Hewlett-Packard Graphic Language 2 (vector format)
HPRTL	Hewlett-Packard Raster Format (raster format)
IP	Internet Protocol
IPC	Interprocess Communication
ISO	International Standards Organization
JPEG	Joint Photograhic Experts Group
KB	kilobyte
kNet	Communications software by SEAL Systems on the basis of TCP/IP and DECnet.
MB	megabyte
PAD	Plot Assignment Dialog by SEAL Systems
PDF	Adobe Portable Document Format
PLOSSYS™	**Plo**t **S**pool **Sys**tem by SEAL Systems
PS	Postscript (vector format)
PS/2	Postscript Level 2 (vector format)
SPL	SEAL Plot Library
TCP	Transmission Control Protocol
TIFF	Tagged Image File Format
UT	Universal User Interface Toolkit (SEAL Systems software package)
VGS	Versatec (vector format)

VRF	Versatec Raster Format (raster format)
VTIL	Versatec Tiled Raster Format (raster format)

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