

PLOSSYS netdome

System Description

Version 4.9.1

2023-11-03

SEAL Systems

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1 Introduction

.....
 This document describes the output management system, PLOSSYS netdome, from SEAL Systems.

purpose

.....
 This documentation is intended for administrators who want to install PLOSSYS netdome and configure and support it for its users.

target group

.....
 This chapter deals with the following topics:

in this chapter

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.....

Conventions in this Documentation

path specifica-
tion

.....
The path information given in this documentation is relative to the installation directory of PLOSSYS netdome. This is usually the home directory of the plossys user. The path information is indicated in Windows notation only in most cases. This corresponds to the UNIX directory structures unless noted otherwise.
.....

typography

.....
The following table lists the typographical conventions employed in this documentation.
.....

| Typographical Convention | Meaning |
|---------------------------------|---|
| Consolas | File names, paths, commands, menu items, keywords, special values, short scripts and examples |
| Consolas italic | Parameters; variables that have to be replaced by current values |
| Consolas <small></small> | More extensive scripts and examples |

.....

Structure of the PLOSSYS netdome Documentation

In addition to the System Description, more documentations about PLOSSYS netdome and the graphical user interfaces of PLOSSYS netdome are available:

- *PLOSSYS netdome*, Introduction, explains the terms in the context of PLOSSYS netdome and introduces the basics of how PLOSSYS netdome works, especially the gate method.
→ [NETDOME_DETAIL_TEC]
 - *PLOSSYS netdome*, Quick Starter Guide, provides an overview of the most important administration and configuration tasks.
→ [NETDOME_ADM]
 - *PLOSSYS netdome Settings*, System Description, describes the configuration of PLOSSYS netdome via the configuration interface PLOSSYS netdome Settings.
→ [NETDOME_SETTINGS_TEC]
 - *PLOSSYS netdome Incident Management*, System Description, describes the configuration possibilities of Incident Management.
→ [NETDOME_INCID_TEC]
 - *PLOSSYS netdome Additional Sheets*, System Description, describes the configuration possibilities of additional sheets.
→ [NETDOME_ADDSH_TEC]
 - *PLOSSYS Job Parameters*, System Description, describes the configuration possibilities of output jobs via job parameters.
→ [PLOSSYS_PARAM_TEC]
 - *PLOSSYS OCON*, Quick Starter Guide, provides an overview of the graphical administrator interface PLOSSYS OCON.
→ [OCON_ADM]
 - *PLOSSYS OCON*, Installation Guide, describes the installation and configuration of PLOSSYS OCON.
→ [OCON_INS]
 - *Stamping (PLOSSYS netdome, pdfstamp)*, User Manual, describes the configuration possibilities for stamps in PLOSSYS netdome.
→ [STAMP_USR]
-

For current patches, information, FAQs and the printer data base providing the up-to-date printer configurations, refer to the SEAL Online Service portal:

<https://sos.sealsystems.de/>



Overview of Contents

structure

.....
This documentation has two parts: a description and a reference. The first part describes the functionality and the installation process using figures, step-by-step-procedures and explanatory texts. The second part serves as a detailed reference guide, containing configuration settings, keywords etcetera.
.....

description

.....
The description deals with the following topics:

Chapter 2, *Requirement*, page 15, describes the requirements which must be fulfilled for the installation and usage.

Chapter 5, *Output Methods*, page 51, describes the start and the stop of PLOSSYS netdome.

Chapter 6.5, *Configuration of the Controlling with GEKKO*, page 158, contains basis information.

Chapter 5, *Output Methods*, page 51, describes the output of output jobs via IPP, e-mail, XPP and ZPL.

Chapter 6, *Configuration of the Output Devices*, page 88, describes the configuration possibilities of output devices.

Chapter 10, *System - Resources*, page 199, deals with the most important system configurations.

Chapter 8, *System - Configuration - JBoss*, page 180, explains the configuration of the application converter.

Chapter 9, *System - Configuration - LPD Server*, page 183, describes the configuration of PLOSSYS netdome as an LPD server.

Chapter 10, *System - Resources*, page 199, deals with the management of resources.

Chapter 11, *System - Backup/Reference/Test System*, page 205, explains the backup, reference and test systems.

Chapter 12, *Background Knowledge - SEAL Spooler Process*, page 224, describes the spooler process.
.....

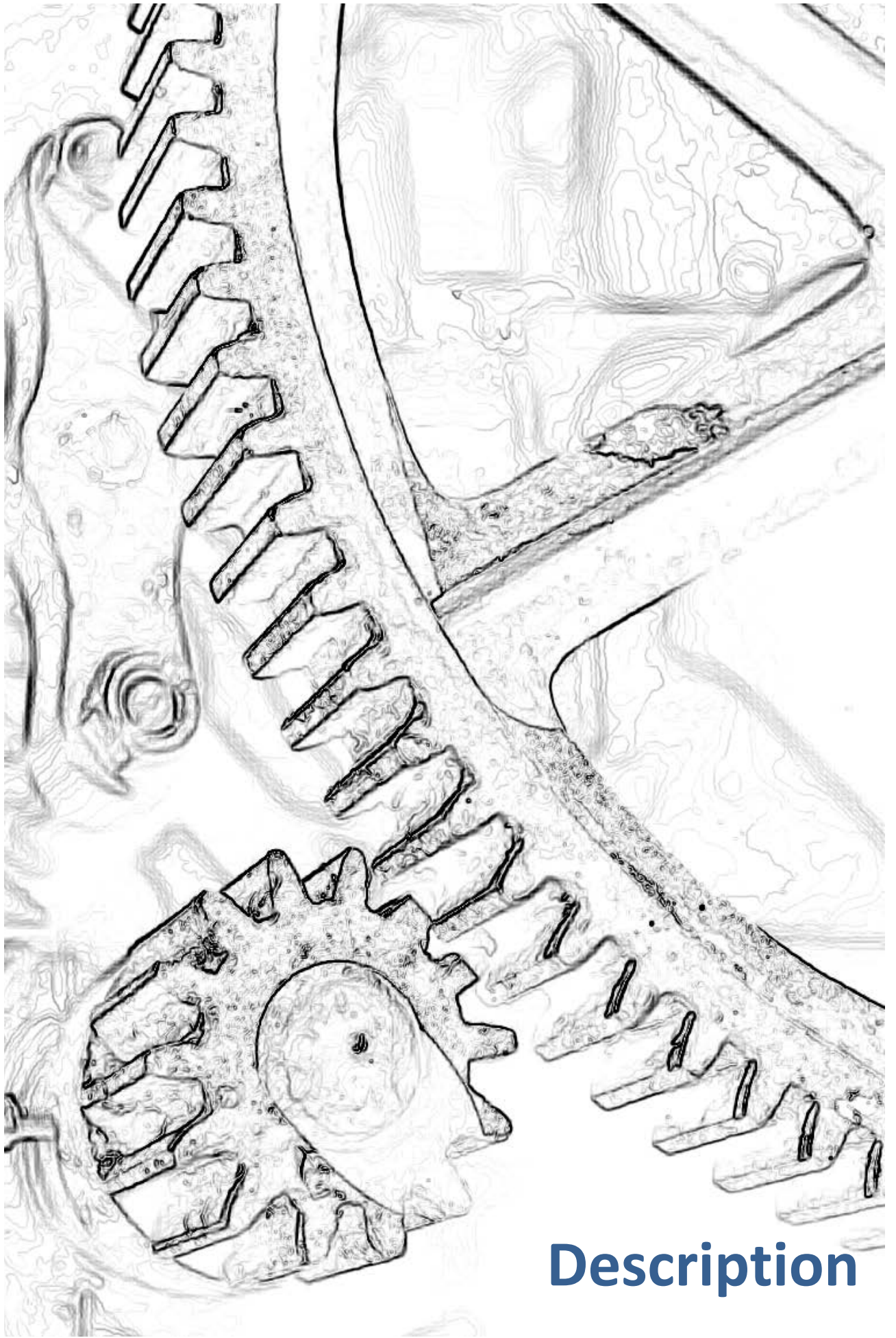
reference

.....
The reference contains the following chapters:

- *Configuration Files - PLOSSYS netdome Configuration*, page 253
 - *Configuration Files - Raster Output - Reference*, page 393
 - *Configuration Files - Vector Output - Reference*, page 410
-
-

directories

.....
At the end of the documentation, a bibliography, terminology list, abbreviation list, and index are included.
.....



Description

2 Requirement

.....
 For using PLOSSYS netdome, a valid license is required. You receive the license
 from your Technical Project Manager at SEAL Systems.

license

.....
 This chapter deals with the following topics:

in this chapter

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.....

Hardware Requirements and Supported Platforms

platform and
hardware

.....
The currently supported platforms and hardware requirements are described
on the following website of SEAL Systems:

<https://www.sealsystems.com/service-support/computer-equipment/>
.....

Requirement - Operating System

.....
For the Linux system, the following requirements have to be fulfilled:

Linux

- Writing access to the %PLDATA% directory
- All users and user groups using the functionality have to have writing access to the directory and its subdirectories.

.....
On a UNIX system, the following requirements have to be fulfilled:

UNIX

- User plossys as PLOSSYS netdome system administrator
 - PLOSSYS netdome server installation in the home directory of the user plossys
 - The following link exists:
ln -s \$PLSROOT/tools/perl/bin_\$PLS_OSFULLNAME/bin/perl
/usr/local/bin/seppperl
-

Requirement - Database

background
knowledge

.....
The PostgreSQL database requires modification of the operating system. The PostgreSQL database has to be configured according to its average load.
.....

database - sys-
tem resources

.....
The following system settings influence the performance:

- Shared memory
 - Semaphores
 - Open files per process
 - Number of process per user
-

database - data-
base resources

.....
The following database settings influence the performance:

- Shared memory
 - PostgreSQL instances
 - Number of simultaneous connections (kernel parameter SHMMAX)
-



hint

.....
The `setmaxdbconnections.pl` script is provided in order to adjust the kernel parameters of the server and the configuration of the database, especially the maximum number of simultaneous connections to the database.
.....

Requirement - Java

.....
As of version 4.6.1 of PLOSSYS netdome, Java is no longer contained in the installation package from SEAL Systems but has to be available on the server.

no longer delivered

.....
The following requirements has to be fulfilled for the Java installation:

Java installation

- The version 8 or 11 of Java has to be installed.
 - The JAVA_HOME environment variable has to be set to the Java installation.
 - The bin directory of the JRE has to be contained in PATH.
-

Supported Formats

input formats

PLOSSYS netdome supports the following input formats:

- JPEG File Interchange Format (JFIF)
 - CAD formats (via DPF)
 - Office formats (via DPF)
 - CALS Typ1
 - PDF, PDF/A
 - CalComp 906/907
 - PostScript
 - CGM (ISO 8632-1)
 - SAP formats: SAPGOF, repro lists
 - GIF
 - TIFF/G4 format
 - GKS 7.4 Level 0b/2b
 - Color TIFF
 - Multi-page TIFF/G4
 - HPGL, HPGL/2, HP-RTL
 - XSL-FO
-

output formats

PLOSSYS netdome supports the following output formats:

- C906/C907
 - PDF
 - CCRF
 - PostScript
 - Gerber
 - Sixel
 - PCL 4/5/6
 - TIFF/G4
 - PreScribe
 - TIFF/G4 tiled
 - HPGL, HPGL/2
 - VCGL, VRF, raster
 - HP-RTL
 - VDS
 - MBGL
-

Restriction - PLOSSYS netdome/Virus Scanner

There are many read-/write operations on files (header, graphic files, job log files, ...) belonging to the jobs during the processing of output jobs in PLOSSYS netdome. The jobs are managed by a PostgreSQL database. Many messages are written to different general log files for quick troubleshooting.

background
knowledge

Practice has shown that the use of virus scanners can strongly affect the file access and therefore the operation of PLOSSYS netdome. In the context of using a virus scanner the following problems are known:


possible interfer-
ences

- Reducing of the performance of the system if the virus scanner scans the file at each file access.
- Files that are opened by a process are often locked for other processes. If a virus scanner has opened a file for scan and if PLOSSYS netdome want write access to this file at the same time, the job processing may be disturbed. This may have serious consequences especially in the case of data files of the PostgreSQL database.


In order to ensure that the PLOSSYS netdome system is running without interferences, SEAL Systems recommends excluding the data directory, %PLSDATA%, and its subdirectories from being scanned for viruses.

recommendation


Installation packages are saved temporarily in %PLSDATA%\packages as ZIP files and may contain programs and scripts. These executable files are not executed at this point. They become active only if the package has been installed and the files have been saved to the intended location outside the data directory. They are scanned for malware at execution.

 hint - instal-
lation packages

If you use an Outlook conversion with attachments in PLOSSYS netdome, ZIP files in the attachment may be opened and their contents may be processed. Further executable files, like bat files or exe files, which probably contain malware, may be included.

 hint - Out-
look attachment

For further information, contact your Technical Project Manager at SEAL Systems.

 further infor-
mation

3 Start/End

background
knowledge

.....
The products of SEAL Systems are modular. Dependencies exist between the systems. In order to ensure a proper system operation, all relevant processes have to be started.

sysstart

.....
The sysstart program identifies the installed system components and takes the dependencies of the systems into account.



reference

.....
→ [SYSTEMSTATUS_TEC]

in this chapter

.....
This chapter deals with the following topics:



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| Stop the System | 24 |
| Manage Processes on Linux Using systemd | 25 |
| (De-)Activate Maintenance Mode | 28 |

.....


Start the System

.....
This is how you start the system:

instructions

| Step | Action |
|------|---|
| 1 | Open a SEAL shell. |
| 2 | Switch to the installation directory of PLOSSYS netdome. |
| 3 | Enter the following command: setenv.bat |
| 4 | Enter the following command: sysstart The sysstart program starts all relevant system components.  hint - starting a single component: You can also use sysstart to start a single component.  example - starting PLOSSYS netdome: sysstart netdome |




.....
→ *Stop the System*, page 24


 related topics

Stop the System

instructions

This is how you stop the system:

| Step | Action |
|------|---|
| 1 | Open a SEAL shell. |
| 2 | Switch to the installation directory of PLOSSYS netdome. |
| 3 | Enter the following command: <code>setenv.bat</code> |
| 4 | <p>Enter the following command: <code>sysstop</code></p> <p>The <code>sysstop</code> program stops all relevant system components.</p> <p> hint - stop of cross-system components: Executing <code>sysstop -full</code> stops both the system-relevant components and the cross-system components, for instance the database, the Frans server and kNet.</p> <p> hint - stopping a single component: You can also use <code>sysstop</code> to stop a single component.</p> <p> example - stopping PLOSSYS netdome: <code>sysstop netdome</code></p> |

 related topics

→ *Start the System*, page 23

Manage Processes on Linux Using systemd

On Linux, you can manage the SEAL Systems processes by using systemd.

systemd

For managing the processes by using systemd, the `server/login/seal.service` configuration file is included in delivery.

configuration file

This is how you activate the starting of the SEAL Systems processes and set the `JAVA_HOME` environment variable when starting the Linux system:

activate

| Step | Action |
|------|---|
| 1 | Copy the configuration file into the systemd directory: <code>sudo cp \${PLSRROOT}server/login/seal.service /etc/systemd/system</code> |
| 2 | In the shell, enter the following command: <code>sudo systemctl enable seal</code> |
| 3 | Open the configuration of the SEAL Systems processes: <code>sudo systemctl edit seal</code> |
| 4 | Set the <code>JAVA_HOME</code> environment variable: [Service] Environment=JAVA_HOME=<path_to_java> |
| 5 | Save the configuration. |

This is how you request the correspondent status of the SEAL Systems processes:

check the status

| Step | Action |
|------|---|
| 1 | In the shell, enter the following command: <code>sudo systemctl status seal</code> |

This is how you start the SEAL Systems processes manually:

start manually

| Step | Action |
|------|--|
| 1 | In the shell, enter the following command: <code>sudo systemctl start seal</code> |

This is how you stop the SEAL Systems processes manually:

stop manually

| Step | Action |
|------|---|
| 1 | In the shell, enter the following command: <code>sudo systemctl stop seal</code> |

..... *To be continued*

Manage Processes on Linux Using systemd, Continuation

.....
This is how you update the configuration of systemd after the configuration file has been modified:

update the configuration

| Step | Action |
|------|---|
| 1 | In the shell, enter the following command: <code>sudo systemctl daemon-reload</code> |

.....

(De-)Activate Maintenance Mode


version 4.8.0 As of version 4.8.0, the maintenance mode is available for PLOSSYS netdome.

maintenance mode In the maintenance mode, the input channels of PLOSSYS netdome are closed so that no new jobs can be sent to PLOSSYS netdome from outside. This way, PLOSSYS netdome can run empty, that means complete the existent jobs. With the maintenance mode, you can carry out maintenance work without having to stop the complete system.

input channels The following input channels are taken into account:

- Frans/Frans3
- IPP
- SEAL LPD
- JRFC Server

direct storage Job files that are placed directly in the gate directories will be processed even in maintenance mode. This allows you to check if the maintenance work has been successful.

 **Caution** - SEAL Print Client Jobs that are passed to PLOSSYS netdome via SEAL Print Client, are currently also processed in maintenance mode.

activate This is how you activate the maintenance mode:

| Step | Action |
|------|---|
| 1 | In the SEAL shell, specify the following command: sysmainton |

deactivate This is how you deactivate the maintenance mode:

| Step | Action |
|------|--|
| 1 | In the SEAL shell, specify the following command: sysmaintoff |

SEALCC In SEALCC, you can activate and deactivate the maintenance mode via an action icon.

4 Basis Knowledge

.....
This chapter deals with the following topics:

in this chapter

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.....

4.1 General

in this chapter

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| Language Settings | 34 |

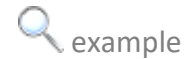
PLOSSYS netdome - Update

.....
The following topics are of interest in the context of an update of PLOSSYS netdome: ask flag files

- Customer-specific configurations may only be done in ask flag files. These files are not overwritten during a system update.
- The current version of an ask flag file is configured with the extension `.tpl` as a template file.

.....
Examples of ask flag files are:

- System-wide configuration files
 - `plossys.ini`
 - `plossys.cfg`
 - `apache.cfg`
 - `sort_foldtypes.cfg`
- the default header of the clients



Supported Data Types

data types

The following data types are supported:

| Data Type | format |
|----------------|---|
| Boolean | Y, N, y, n, YES, NO (only the first letter is evaluated) |
| Character | A presentable character |
| String | Single words, also with special characters; strings that contain blanks must be enclosed by double quotation marks. |
| StringXX | Same as string, with a maximum of XX characters |
| Integer | Integer decimal number |
| Float | Floating-point number with decimal point |
| date | YYYY-MM-DD, with DD=day, MM=month, YYYY=year |
| Version number | xx.xx.xx with x=digit |
| Enumeration | List-specific |

Units of Measurement

The following measurement units are supported:

[overview](#)

| Abbreviation | Unit |
|--------------|------------|
| mm | millimeter |
| cm | centimeter |
| m | meter |
| in | inch |

No blanks are allowed between the number and the unit.

 [hint](#)

Language Settings

configuration file
The texts for the log and error messages of the output device are stored in a configuration file which is read in when the output device is started.
.....

environment variable
According to the setting of the PLS_LANG environment variable to de (German) or en (English) the de.cfg or en.cfg configuration file is read. The de.cfg and en.cfg files have PLOSSYS configuration file ini format and are located in the tools\language\plotter directory.
.....

keyword
For each message, a unique keyword exists via which the text can be accessed.
.....

parameter
Within the text, the %1 to %9 parameters can be used. Their contents are replaced by current texts during runtime of the program. The number of parameters is defined by the application program. The parameter numbers are firmly associated with the text by which they are replaced; this way, the same numbers are replaced by the same texts, even if the order of the parameters changes.
.....

example

Extract of the file tools\language\plotter\de.cfg:

```
[LANGUAGE]
ERR_SUCCESS = "Everything ok.\n"
ERR_ADD_DEVICE_FAILED = "Adding device failed.\n"
ERR_ALLOC_FAILED = "Memory allocation failed!\n"
ERR_BAD_ENVIRONMENT = "Invalid environment variable %1!\n"
ERR_BAD_PLS_VERSION = "Bad PLOSSYS netdome Version.\n"
ERR_CALIB_INTERN = "Internal error in calibration. Paper number %1 not defined by
LGC!\n"
ERR_CFG_EMPTY_FILE_NAME = "No file name specified.\n"
ERR_CFG_ERROR_IN_FILE = "Syntax error in config file %1.\n ."
ERR_CFG_KEYW_NOT_FOUND = "Keyword %1 not found.\n"
ERR_CFG_NO_PLOTTER = "The printer '%1' is not configured in file '%2' (item '%3').\n"
```

Environment Variables

.....
The environment variables are set by the logon scripts of the PLOSSYS netdome environment. logon script
.....

4.2 Configuration Files

in this chapter

This chapter deals with the following topics:

| Topic | Page |
|---------------------------------------|------|
| General Rules for Configuration Files | 37 |
| Structure of the Configuration Files | 38 |
| PLOSSYS Configuration File Format | 39 |
| PLOSSYS Configuration File Ini Format | 40 |
| Configuration File del24h.dat | 41 |

General Rules for Configuration Files

.....
The following rules apply to the configuration files:

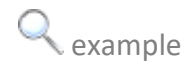
- Comment lines are marked by a preceding '#'. rules
- \ at the end of the line indicates that there is a continuation line.
- In front of the continuation character, there has to be a blank.
- After the continuation character, no further characters are allowed.

.....
An item in a configuration file consists of a keyword and the assigned value. keyword/value

.....
Instead of a direct value, names of environment variables may also be used for a keyword, e. g. with the specification of path names. The environment variables are marked as *%variable%*. environment variables

Example using PLSDATA as environment variable:

```
Maingate=%PLSDATA%/io/maingate
```



.....
In the configuration files, using absolute path specifications should be avoided whenever possible. Paths should be specified relative to \$PLSROOT. relative path specifications

.....

Structure of the Configuration Files

| | |
|----------------------|---|
| sections | <p>.....</p> <p>The configuration files are divided into sections. A section starts with [<i>name</i>] in which <i>name</i> is the name of the section. The beginning of a section at the same time indicates the end of the previous section.</p> <p>.....</p> |
| supported characters | <p>.....</p> <p>For the section name, 29 characters are supported. The following characters are supported:</p> <ul style="list-style-type: none">• Letters from a to z and from A to Z• Digits from 0 to 9• Underscore _• Colon :• Hyphen -• Dot .• Plus + <p>.....</p> |
| order | <p>.....</p> <p>Within a section of the file, the keywords may be listed in any order.</p> <p>.....</p> |

PLOSSYS Configuration File Format

.....
In the PLOSSYS configuration file format, the keyword and the value are separated by a blank or tab. A value can also be a list.

format

.....
The keywords and values are case sensitive.

case sensitive

.....
→ *Supported Data Types*, page 32

data types

.....
→ *Units of Measurement*, page 33

units of measurement

.....
The configuration file may have UTF-8 encoding. When editing the file, pay attention that it is saved in UTF-8 encoding again.

UTF-8


.....
Example of the PLOSSYS configuration file format:

 example

```
[LICENSE]
LICENSED_PLOTTERS 128 #max. number
CUSTOMER_NAME „SEAL Systems“
[SYSTEM]
VERSION 3.0.0
MAIL_TYPE NO_MAIL#INFO or ERROR
```

.....

PLOSSYS Configuration File Ini Format


| | |
|---|---|
| keyword/value | In the PLOSSYS configuration file ini format, the keyword and the value are separated by =. A value can also be a list. |
| blank | If the value to be assigned contains a blank, the value has to be enclosed as „value“. |
| hierarchical sections | The sections can have a hierarchical structure. The name of the subsection contain all names of the higher sections, separated by \: [<i>section\subsection\subsubsection</i>] |
| case sensitive | The keywords and values are case sensitive. |
| data types | → <i>Supported Data Types</i> , page 32 |
| units of measurement | → <i>Units of Measurement</i> , page 33 |
|  example | <p>Example of the PLOSSYS configuration file ini format:</p> <pre>[LGC\SETTINGS] # gen. LGC settings PLOT_HEADER = %BACK_FRONT% PLOT_PAPER = ROLL</pre> |

Configuration File del24h.dat

.....
In the configuration file server\plotserv\del24h.dat , you configure the deletion of the jobs in different states and for the delete type DEL24H.
.....

purpose

Extract of server\plotserv\del24h.dat:

 example

```
[TIME_DEF]
# Value >= 0: Number of hours after that a job will be deleted
# Value = -1: The job will not be deleted

DEL24H      1 # Jobs in the JOB_EXECUTED status with deletion type DEL24H
DEL_ERROR   -1 # Jobs in the JOB_ERROR status, independent of the deletion type
DEL_DELETE  -1# Jobs in the JOB_DELETE status, independent of the deletion type
DEL_ABORTED -1# Jobs in the JOB_ABORTED status, independent of the deletion type
DEL_EXECUTED1# Jobs in the JOB_EXECUTED status, independent of the deletion type
DEL_FORWARDED1# Jobs in the JOB_FORWARDED status, independent of the deletion type
DEL_ACTIVE  -1 # Jobs in the JOB_ACTIVE status, independent of the deletion type
DEL_ACTIVE_PICKUP -1# Jobs in the JOB_ACTIVE status with PICKUP_QUEUE = Y, independent
of the deletion type
DEL_SPOOLING -1# Jobs in the JOB_SPOOLING status, independent of the deletion type
DEL_BUSY    -1# Jobs in the JOB_BUSY status, independent of the deletion type
```

.....

4.3 Log, Status and Statistics Files

in this chapter


This chapter deals with the following topics:

| Topic | Page |
|--|------|
| Log File | 43 |
| Status File - General | 44 |
| Status File sysstate.stat - Status of Output Devices | 45 |
| Statistics File | 49 |

Log File

.....
The log files contain information about the processes jobs and occurred errors. The messages are always appended. contents

.....
The log files are located in the %PLSDATA%\log directory and have the .log extension. location

.....
Inspect these files from time to time and delete them if required. SEAL Systems provides two tools for shortening or deleting log files. These tools are located in the tools directory.  hint

.....
Using the convstat.pl script, log files can be converted into an Excel-compatible format. Excel format

.....
The log files can be deleted via the operating system level. The processes regenerate the log files while starting the first writing operation. delete

.....
With the clrlog command while the PLOSSYS netdome system has been stopped, you delete all log files.  hint

Status File - General

contents

.....
The status files are rewritten by PLOSSYS netdome according to a fixed schedule or in case of specific status changes. The old content is overwritten.
.....

regularly

.....
PLOSSYS netdome creates an overview of the current system status every 10 minutes. This information can be read by other systems, in order to create a list of the jobs which are in PLOSSYS netdome and are waiting for their output. Then, this list can be made available to users who have no access to a PLOSSYS netdome client or of the PLOSSYS netdome console as a source of information.
.....

location

.....
The status files are located in the %PLSDATA%\log directory and have the .stat extension.
.....



hint

.....
The status files are not backed up before being overwritten due to the current system status is recorded here (e. g. the status of the output device or the number of jobs in the individual lists) and an old system status is not be of interest.
.....

Status File `sysstate.stat` - Status of Output Devices

.....
 In the `sysstate.stat` file in the `%PLSDATA%\plotserv` directory, the current system status together with the name and the message for each output device are saved.

purpose

.....
 The status file is structured as follows:

syntax

| Line | Contents | format |
|---------|--|---------|
| 1 | Number of output devices | Integer |
| 2 | Name of the first output device | String |
| 3 | Status of the first output device | Integer |
| | Redirection | String |
| | operating mode | Integer |
| | pen | Integer |
| | performance | Integer |
| | Number of trays of the first output device | Integer |
| | Medium (per tray) | Integer |
| | Paper size (per tray) | Integer |
| 4 | Printer message of the first output device | String |
| ... | ... | |
| $n - 2$ | Name of the last output device | String |
| $n - 1$ | Status of the last output device | Integer |
| | redirection | String |
| | operating mode | Integer |
| | pen | Integer |
| | performance | Integer |
| | Number of trays of the last output device | Integer |
| | Medium (per tray) | Integer |
| | Paper size (per tray) | Integer |
| n | Printer message of the last output device | String |

..... *To be continued*

Status File `sysstate.stat` - Status of Output Devices,

Continuation

status of the out-put device

For each output device, the status is marked by at least seven integer values and a string for the redirection, separated by blanks. Depending on the number of trays, an additional pair (medium, paper size) of integers is added.

line number

The number of lines *n* of the file depends on the number of connected output devices.

status of the out-put device

The following values are available for the "status of the output device":

| Value | Meaning |
|-------|--|
| 0 | The output process does not exist (down) |
| 1 | The output device is started, idle (active) |
| 2 | The output device is stopped (stopped) |
| 3 | The output device is printing (busy) |
| 4 | The output device is redirected (redirected) |
| 5 | The output device is suspended (suspended) |

redirection

The following values are available for the "redirection":

| Value | Meaning |
|----------------|---|
| NONE | The output device is not redirected |
| <i>printer</i> | The output device is redirected to the <i>printer</i> output device |

operating mode

The following values are available for the "operating mode":

| Value | Meaning |
|-------|-------------------------|
| 0 | No operation |
| 1 | Operation immediately |
| 2 | Operation postponed |
| 3 | Special medium (manual) |

..... *To be continued*

Status File `sysstate.stat` - Status of Output Devices,

Continuation

.....

The following values are available for the "pen":

pen

| Value | Meaning |
|-------|---------------|
| 0 | Ballpoint pen |
| 1 | Ink |

.....

The following values are available for the "performance":

performance

| Value | Meaning |
|-----------|---------------------|
| <i>kb</i> | Kilobyte per second |

.....

The following values are available for the "number of trays":

Number of trays

| Value | Meaning |
|---------------|-----------------|
| <i>number</i> | Number of trays |

.....

The following values are available for the "medium":

medium

| Value | Meaning |
|-------|-------------------------|
| 0 | Paper (PA) |
| 1 | Transparency (TR) |
| 2 | Film (FO) |
| 3 | Light-weight paper (LI) |
| 4 | Special medium (SP) |

.....

The following values are available for the "paper size":

paper size

| Value | Meaning |
|---------------|--|
| <i>number</i> | Number of the item in the printer configuration file under [LGC\PAPER-SIZE]ACTIVE. 0 corresponds to the first value. Depending on the setting in <code>plossys.cfg</code> , the ISO or the ANSI paper sizes are evaluated. |


..... *To be continued*

Status File `sysstate.stat` - Status of Output Devices,

Continuation

start

When starting PLOSSYS netdome, the status file is read and the output device states found there are used if the correspondent start mode is set in `plossys.cfg`. Unless this file is available, all output devices are set to the "stopped" status (2).

 example

The following example shows a configuration of three output devices, with the first two output devices stopped and the last one started. All output devices work with the operating mode "service postponed" and have the item "ball-point pen" as pen type. The first output device has two trays, the second one has six trays and the third one has one tray. Paper is loaded on all output devices. The paper size is indicated in the output device configuration file. A message has been entered for the second and the third output device. The second output device is redirected to the third, no redirection for the others.

Example of `sysstate.stat`:

```
3
laserjet1
2 NONE 2 0 0 2 0 0 0 0


xes8830
2 qms860 2 0 0 6 0 0 0 0 0 0 0 0 0 0 0
Caution! Maintenance at 4.00 pm!
qms860
1 NONE 2 0 0 1 0 0
Only restricted operation at the moment!
```


Statistics File

Whenever a job is output, a set containing statistical information is written into the statistics file. contents

The statistic file is named `statistics.log` and located in the `%PLSDATA%\log` directory. location

The file is written in ASCII format by default. The character encoding is specified by the `STATISTICS_OUTPUT_CODEPAGE` item and the format of the records is specified by the `STATISTICS_FORMAT` item in the system section in `plossys.cfg`. format

With the `STATISTIC_OUTPUT` item in the output device section in `plossys.cfg`, you can specify for each output device if the job data is to be added to the statistic file.  hint

Example of two items in the statistics file:

```
(#001849) pentest seal01 brende  
GKSMS P K 00 0.21 0.287 A4 MAXSCL 1.00 0098 00715 003  
laserjet 01.01.1999 09:08:08 01.01.1999 09:08:10  
(#001850) queente seal01 brende  
GKSMS P K 01 0.380 0.231 A3 MAXSCL 1.000 4308 12582 332  
laserjet 1.01.1999 09:08:11 1.01.1999 09:08:28
```

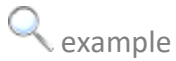
 example

The content of the statistics file can be used for the purpose of analysis, for example evaluation

- Determination of the overall work-load of the system
- Determination of the work-load of an output device (number of output jobs related to time)
- Determination of the paper consumption per user/department for the internal settlement of costs within the company in square meters/number of output jobs dependent on the medium

To be continued

Statistics File, Continuation



The following table shows an example of the analysis of the statistics file listing the number of output jobs for half a year related to the specific output devices and the specific formats. The resulting data can then be made available, for example, as Excel file.

| Statistics on the number of output jobs - 2. half-year 2018 | | | | | | | | |
|---|------------|-------|-------|-------|-----|-----|-----|-------|
| Printer | | JUL | AUG | SEP | OCT | NOV | DEC | sum |
| | xes8830 | 1.457 | 1.674 | 2.293 | 221 | 87 | 101 | 5.833 |
| | qms860 | 29 | 31 | 2 | 0 | 4 | 2 | 68 |
| | laserjet1 | 3 | 27 | 62 | 1 | 0 | 0 | 93 |
| | 536_xl | 2 | 28 | 5 | 4 | 10 | 1 | 50 |
| | 3m_659 | 34 | 10 | 7 | 2 | 2 | 0 | 55 |
| Formats | | | | | | | | |
| | A0 | 55 | 59 | 71 | 4 | 9 | 17 | 215 |
| | A1 | 123 | 99 | 225 | 8 | 16 | 24 | 495 |
| | A2 | 308 | 246 | 497 | 38 | 29 | 14 | 1.132 |
| | A3 | 967 | 1.303 | 1.482 | 174 | 44 | 36 | 4.006 |
| | A4 | 69 | 56 | 83 | 3 | 4 | 8 | 223 |
| | Special f. | 3 | 7 | 11 | 1 | 1 | 5 | 28 |
| sum | | 1.525 | 1.770 | 2.369 | 228 | 103 | 104 | 6.099 |

5 Output Methods

.....

This chapter deals with the following topics:

in this chapter

| Topic | Page |
|-----------------------|------|
| Output via IPP | 52 |
| Output Via E-Mail | 57 |
| Output via PJJ | 75 |
| Output via ZPL | 76 |
| Output via XPP | 77 |
| Output via Cryptshare | 78 |

.....

5.1 Output via IPP

purpose

.....
This chapter describes the PLOSSYS netdome configuration for the print data transfer to the output device via IPP.
.....

background knowledge

.....
SEAL Spooler uses the CUPS library for the IPP transfer.
.....

in this chapter

.....
This chapter deals with the following topics:
.....

| Topic | Page |
|--------------------------------|------|
| Requirements | 53 |
| Configure Unencrypted Transfer | 54 |
| Configure Encrypted Transfer | 55 |
| Test the Transfer | 56 |

.....

Requirements

.....
The following requirements have to be fulfilled:

requirements

- The IPP transmission protocol is active on the output device.
→ *Test the Transfer*, page 56
 - Certificates are stored at the IPP server for an encrypted transfer.
 - Certificate of the output device (self-signed, generation via the Web interface of the output device)
 - Certificate of a certificate authority (SSL certificates, provided by a certificate authority)
-



Configure Unencrypted Transfer

background
knowledge

The default port for an unencrypted IPP transfer is 631.

instructions

This is how you configure the unencrypted transfer of output jobs to an output device via IPP:

| Step | Action |
|------|---|
| 1 | Check if the requirements are fulfilled. → <i>Requirements</i> , page 53 |
| 2 | Open PLOSSYS OCON. |
| 3 | Create a new output device with: Device → New Device |
| 4 | Enter: OUTPUT IPP QUEUE <code>http://printer_name:631/ipp</code>  hint - device-specific URI specification: Depending on the output device type, the path <code>/job</code> or <code>/printer</code> is used instead of <code>/ipp</code> . → For further information, refer to the documentation of the output device.  hint - only output device name: If only the name of the output device is set in QUEUE, SEAL Spooler uses the following URI: <code>http://\$QUEUE:631/printers/</code> |
| 5 | Save the settings. |
| 6 | Test the settings. → <i>Test the Transfer</i> , page 56 |



Configure Encrypted Transfer

.....
The default port for an encrypted IPP transfer is 443.

background
knowledge

.....
This is how you configure the encrypted transfer of output jobs to an output device via IPP:

instructions

| Step | Action |
|------|---|
| 1 | Check if the requirements are fulfilled. → <i>Requirements</i> , page 53 |
| 2 | Open PLOSSYS OCON. |
| 3 | Create a new output device with: Device → New Device |
| 4 | Enter: OUTPUT IPP QUEUE <code>https://printer_name:443/ipp</code>  hint - device-specific URI setting: Depending on the output device type, the path <code>/job</code> or <code>/printer</code> is used instead of <code>/ipp</code> . → For further information, refer to the documentation of the output device.  hint - only output device name: If only the name of the output device is set in QUEUE, SEAL Spooler uses the following URI: <code>https://\$QUEUE:443/printers/</code> |
| 5 | Save the settings. |
| 6 | Test the settings. → <i>Test the Transfer</i> , page 56 |

Test the Transfer

test

.....
The following test possibilities are available:

- In the shell, call the `putipp` program in order to check the assignment of the output device via IPP. In the case of problems, the command line return code and the `putipp.log` log file in the start directory give detailed hints.
→ [IPPSERVER_TEC]
 - Analyses of the items in the log file, `sealspooler.log`. Via PLOSSYS OCON, you can activate `DEBUG=Y` for the output device.
 - Check the settings of the output device in the Web interface of the output device
→ Information about how to start the Web interface, refer to the documentation of the correspondent output device.
-

5.2 Output Via E-Mail

.....
This chapter describes the PLOSSYS netdome configuration for the output of single jobs and set collations as e-mail. purpose

.....
This chapter deals with the following topics: in this chapter

| Topic | Page |
|----------------------|------|
| requirement | 58 |
| Output Variants | 59 |
| Settings - Reference | 66 |

5.2.1 requirement

driver

.....
In order to output an output job via e-mail, the following driver has to be used:

- seal.mail.pdf_vr_pdf

5.2.2 Output Variants

This chapter deals with the following topics:

in this chapter

| Topic | Page |
|---|------|
| Activate the Merging of the PDF Files | 60 |
| Specify the Maximum E-Mail File Size | 61 |
| Activate the Compression of the E-Mail | 62 |
| Activate the Encryption of the PDF Files | 63 |
| Configure the Encryption and the Authentication | 64 |

Activate the Merging of the PDF Files

purpose

Output jobs or set collations are compressed according to their data type. The PDF tool `pdfjoin` is used for this. In dependence of its size after the compression, the e-mail is split into several e-mails without using an external zip program.

requirement

All pages of the output jobs contain in their headers:

- `PLS_PLOTTYPE=PDF` or
- `PLS_PLOTTYPE=NATIVE`.

instructions

This is how you configure the merging of output jobs:

| Step | Action |
|------|---|
| 1 | In the output device section in <code>plossys.cfg</code> , specify the following setting: <code>COLLECT_JOB_MEMBERS CONCAT</code> or <code>COLLECT_JOB_MEMBERS CONCATMULTI</code> → <i>COLLECT_JOB_MEMBERS</i> , page 294 |



hint - Max-MailSize

If the resulting e-mail file is larger than the value specified with `MaxMailSize`, the program behaves as follows depending on the correspondent setting:

- `COLLECT_JOB_MEMBERS NONE`: The program aborts with an error message.
- `COLLECT_JOB_MEMBERS CONCATMULTI`: The e-mail is split into multiple files. If several files of a set collation exceed the value of `MaxMailSize`, the systems tries to split of the files into several e-mails. If one file exceeds `MaxMailSize` by doing this, an error message is output.
- `COLLECT_JOB_MEMBERS CONCAT`: The program aborts with an error message.

→ *Specify the Maximum E-Mail File Size*, page 61

Specify the Maximum E-Mail File Size


.....
The e-mail server allows e-mail files up to a certain size. Therefore, specifying the maximum e-mail file size makes sense for the output of e-mail from PLOSSYS netdome, too.

purpose


.....
If the sum of the file sizes of a set collation or a single job exceeds the specified maximum file size, the job will be aborted.

abort

.....
For sending the e-mail, the files are encoded to Base64. Therefore, the files become larger by about 33 %. Take this in account when calculating the maximum file size!

 **Achtung** -
Base64

.....
The files' size is 10 MB. Due to the Base64 encoding, the maximum file size must be enlarged by a third, that means MaxMailSize should be at least 1,33 * 10 MB, that means at least 13946060.

 example

.....
This is how you specify the maximum file size for e-mails:


instructions

| Step | Action |
|------|---|
| 1 | In server\plotserv\plotter\seal.mail.customer.pl, specify: <code>\$OptionsMail{"MaxMailSize"}="max_size_in_bytes"</code> |

Activate the Compression of the E-Mail

purpose

.....
If the limit of the maximum size of the e-mail with its attachment is exceeded, the files can be compressed by an internal packing program and split into several e-mails.
.....

 **Caution** - no splitting

.....
The internal packing program does not split archives. If the allowed size of only one spool file is exceeded, there is no splitting. The output job is not output.
.....

instructions

.....
This is how you activate the packing of the e-mail:
.....

| Step | Action |
|------|--|
| 1 | In server\plotserv\plotter\seal.mail.customer.pl, specify: \$OptionsMail{"ZipMail"}="YES" |

.....

Activate the Encryption of the PDF Files

.....
This is how you activate the encryption of the PDF files:

instructions

| Step | Action |
|------|---|
| 1a | User-specific configuration: In server\plotserv\plotter\seal.mail.customer.pl, specify: \$OptionsMail{"Pdf_Crypt"}="Y" \$OptionsMail{"Pdf_CryptOptions"}="-changepw secret -print y -change n" → <i>User-Specific Settings</i> , page 68 |
| 1b | Job-specific configuration: Specify in the header: PLS_CRYPT=Y PLS_CRYPT_OPTIONS="-changepw secret -print y -change n" → <i>Job-Specific Settings</i> , page 74 |

Configure the Encryption and the Authentication


purpose

With the output via e-mail in PLOSSYS netdome, the e-mails are sent decrypted via SMTP or encrypted via SMTPS to the configured SMTP server. If the SMTP requires an authentication, specify the user and his password.

possibilities

The following possibilities are available for the encryption and the authentication:

- E-mail on port 25 decrypted with or without authentication
- E-mail encrypted on port 465 with SSL/TLS (1.0, 1.1, 1.2 or 1.3) and authentication
- E-mail encrypted on port 587 with STARTTLS and authentication

 hint - START-TLS

STARTTLS is used when the client and the server first negotiate the encryption with each other. Thereby, the first contact between the client and the server is decrypted.

 hint - authentication

With this type of authentication (LOGIN authentication), the user name and the password are transferred to the SMTP server without encryption or encrypted using sealcrypt and as Base64.

instructions

This is how you configure the decrypted sending of e-mails with or without authentication:

| Step | Action |
|------|---|
| 1 | In server\plotserv\plotter\seal.mail.customer.pl, specify: <pre>\$OptionsMail{"SmtpServer"}="server_name" \$OptionsMail{"Port"}=25 \$OptionsMail{"Security"}=""</pre> → <i>User-Specific Settings, page 68</i> |
| 2 | If the SMTP server requires an authentication, specify in server\plotserv\plotter\seal.mail.customer.pl: <pre>\$OptionsMail{"Username"}="username" \$OptionsMail{"Password"}="password"</pre> → <i>User-Specific Settings, page 68</i> |

..... *To be continued*

Configure the Encryption and the Authentication,

Continuation

.....
This is how you configure the sending of the e-mail with SSL/TLS encryption and authentication:

instructions

| Step | Action |
|------|---|
| 1 | In server\plotserv\plotter\seal.mail.customer.pl, specify: \$OptionsMail{"SmtpServer"}="server_name" \$OptionsMail{"Port"}=465 \$OptionsMail{"Security"}="SSL" \$OptionsMail{"Username"}="username" \$OptionsMail{"Password"}="password" |

.....
This is how you configure the sending of the e-mail with STARTTLS encryption and authentication:

instructions

| Step | Action |
|------|---|
| 1 | In server\plotserv\plotter\seal.mail.customer.pl, specify: \$OptionsMail{"SmtpServer"}="server_name" \$OptionsMail{"Port"}=587 \$OptionsMail{"Security"}="STARTTLS" \$OptionsMail{"Username"}="username" \$OptionsMail{"Password"}="password" → <i>User-Specific Settings</i> , page 68 |

5.2.3 Settings - Reference

in this chapter

This chapter deals with the following topics:


| Topic | Page |
|------------------------|------|
| Defaults | 67 |
| User-Specific Settings | 68 |
| Job-Specific Settings | 74 |

priority

The settings on the different location have the following priorities:

- Priority 1: Job-specific settings in the header or the set header
- Priority 2: Customer-specific settings in `seal.mail.customer.pl`
- Priority 3: Defaults in `seal.mail.pl`

If a valid header item exists, that means a non-empty string, it is always used. The correspondent setting in `seal.mail.customer.pl` does not matter in this case.

 hint -
change priority

The order when evaluating the configuration settings can be changed in the `seal.mail.customer.pl` script via the following setting:

```
$OptionsMail{"OverwriteHeaderParam"} = "Y"
```

If `OverwriteHeaderParam` is set to `Y`, the customer-specific settings in `seal.mail.customer.pl` have the highest priority.

Defaults

.....
The defaults for the output via e-mail are specified in `server\plotserv\plotter\seal.mail.pl`.
.....

Do not change the defaults in `server\plotserv\plotter\seal.mail.pl`! Only use `server\plotserv\plotter\seal.mail.customer.pl` for the customization!



→ *User-Specific Settings*, page 68

→ *Job-Specific Settings*, page 74
.....

User-Specific Settings

seal.mail.
customer.pl

.....
The user-specific settings are specified in server\plotserv\plotter\seal.mail.customer.pl. These settings are over-written by header items.

→ *Job-Specific Settings, page 74*

\$OptionsMail

.....
The settings are contained in the \$OptionsMail hash. Below, the available keywords are listed in alphabetical order.

 hint - UTF-8

.....
Pay attention that the texts that you specify in the settings, such as message or Filename, are UTF-8 encoded. Otherwise, these might be displayed incorrectly at the mail receiver. This is how you change a Latin1 text to UTF-8 using Perl functions:

```
my $encoding = 'latin1';
$optionsMail{"Filename"} = Encode::encode("utf8",
Encode::decode($encoding, 'KNÖDEL-DÄBÜ.pdf'));
```

AddSenderToCC

.....
AddSenderToCC specifies if the e-mail address of the sender is added to the CC receivers.

Available values: Boolean

- Y
The e-mail address will be added.
- N
The e-mail address will not be added.

Default: N

Administrator

.....
Administrator specifies the e-mail address of the PLOSSYS netdome administrator.

Available values: String

- *administrator_name@mycompany.org*

Default: no

..... *To be continued*

User-Specific Settings, Continuation

.....
BodyTextFile specifies the file containing the text for the e-mail.

BodyTextFile

Available values: String

- *C:\data\mailtext*
Absolute path of the text file
- *jobname.extension*
The file name must be identical with the job name. The text file with the contents of the e-mail is passed to PLOSSYS netdome as additional file. The output script assigns the text file in the %PLSDATA%\plotserv\associated directory to the corresponding job via the file extension and reads the file. The file extension has to be specified in the *assocfiles.cfg* file.

Default: no

The text file can also be specified via the PLS_MAIL_TEXTFILE header item.

 hint - header item

.....
CompressAttachment specifies the compression of the files.


Compress Attachment

Available values: Enumeration

- NONE
Each file is individually compressed and a correspondent packed file is created. If the size of the file exceeds the value specified with *MaxMailSize*, an error message is output.
- ALL
All files are compressed to one file. If the size of the file exceeds the value specified with *MaxMailSize*, an error message is output.
- NATIVE
For each file with *PLS_PLOTTYPE=NATIVE*, a compressed file is created. PDF files are not compressed. If the sum of the compressed files exceeds the value specified with *MAX_MAIL_SIZE* the files are split into several e-mails.

Default: ALL

CompressAttachment will only be evaluated if *ZipMail* is set to Y.

 **Caution** - activate

.....
Debug specifies if debug messages are output.

debug

Available values: Boolean

- Y
Debug messages will be output.
- N
Debug messages will not be output.

Default: N

..... *To be continued*

User-Specific Settings, Continuation

| | |
|-------------|--|
| Filename | <p>.....</p> <p>Filename specifies the name of the attachment.</p> <p>Available values: String</p> <ul style="list-style-type: none"> • <i>name_of_attachment</i> <p>Default: PLS_PLOTID</p> <p>.....</p> |
| MaxMailSize | <p>MaxMailSize specifies the maximum file size for the generated e-mails in bytes.</p> <p>Available values: Integer</p> <ul style="list-style-type: none"> • <i>bytes</i> <p>Default: 5000000</p> <p>.....</p> |
| Message | <p>Message specifies the e-mail text.</p> <p>Available values: String</p> <ul style="list-style-type: none"> • <i>message_text</i> <p>Default: Your files from PLOSSYS netdome</p> <p>.....</p> |
| Password | <p>Password specifies the password for the authentication at the SMTP server. The password can be entered unencrypted or encrypted using <i>sealcrypt</i>:</p> <p>Available values: String</p> <ul style="list-style-type: none"> • <i>password</i> <p>Default: no</p> <p>.....</p> |
| Pdf_Crypt | <p>Pdf_Crypt specifies if the PDF file is encrypted.</p> <p>Available values: Boolean</p> <ul style="list-style-type: none"> • Y The PDF file will be encrypted. • N The PDF file will not be encrypted. <p>Default: N</p> <p>..... <i>To be continued</i></p> |

User-Specific Settings, Continuation

.....
Port specifies the port for sending the e-mails. port

Available values: Enumeration

- 25
unencrypted transfer
- 465
via SSL/TLS encrypted transfer
- 587
via STARTTLS encrypted transfer

Default: no

.....
Receiver specifies the e-mail address of the receiver. Receiver

Available values: String

- *firstname.lastname@server.com*

Default: no

.....
Receiver_BCC specifies the e-mail addresses for the BCC field. Receiver_BCC

Available values: String

- *firstname.lastname@server.com*

Default: no

.....
Receiver_CC specifies the e-mail addresses for the CC field. Receiver_CC

Available values: String

- *firstname.lastname@server.com*

Default: no

..... *To be continued*

User-Specific Settings, Continuation

| | |
|------------|--|
| RetryMax | <p>.....</p> <p>RetryMax specifies the number of retries for sending the e-mail.</p> <p>Available values: Integer</p> <ul style="list-style-type: none"> • <i>max</i> <p>Default: 2</p> <p>.....</p> |
| RetrySleep | <p>.....</p> <p>RetrySleep specifies the waiting time in seconds between to retries.</p> <p>Available values: Integer</p> <ul style="list-style-type: none"> • <i>seconds</i> <p>Default: 1</p> <p>.....</p> |
| Security | <p>.....</p> <p>Security specifies if the e-mails are transferred unencrypted or encrypted and which protocol will be used in case of encryption.</p> <p>Available values: Enumeration</p> <ul style="list-style-type: none"> • "" no encryption • SSL encryption via SSL/TLS • STARTTLS encrypten via STARTTLS <p>Default: ""</p> <p>.....</p> |
| Sender | <p>.....</p> <p>Sender specifies the e-mail address of the sender.</p> <p>Available values: String</p> <ul style="list-style-type: none"> • <i>firstname.lastname@server.com</i> <p>Default: no</p> <p>.....</p> |
| SmtpServer | <p>.....</p> <p>SmtpServer specifies the server name or the IP address of the e-mail server.</p> <p>Available values: String</p> <ul style="list-style-type: none"> • <i>server_name</i> <p>Default: no</p> <p>.....</p> |
| Subject | <p>.....</p> <p>Subject specifies the text for the subject field.</p> <p>Available values: String</p> <ul style="list-style-type: none"> • <i>subject_text</i> <p>Default: no</p> <p>.....</p> |
| | <p>..... <i>To be continued</i></p> |

User-Specific Settings, Continuation

.....
UseBodyTextFile specifies if the text of the e-mail is read from a file. The file is specified with BodyTextFile. UseBodyTextFile

Available values: Boolean

- Y
 The text will be read from the file.
- N
 The file will not be read from a file.

Default: N

.....
Password specifies the user name for the authentication at the SMTP server. Username

Available values: String

- *username*

Default: no

.....
ZipMail specifies if the attached files will be compressed. ZipMail



Available values: Boolean

- Y
 The attachments will be compressed.
- N
 The attachments will not be compressed.

Default: N

.....

Job-Specific Settings

| | |
|--|--|
| Header | <p>The job-specific settings are specified in the header items. Header items have the highest priority. They overwrite all other settings.</p> <p>→ <i>User-Specific Settings</i>, page 68</p> <p>→ <i>Defaults</i>, page 67</p> |
| restriction | <p>The PLS_COPY header item is not evaluated. Only one copy of an output file is sent via e-mail.</p> |
| relevant header items | <p>In this context, the following header items are relevant:</p> <ul style="list-style-type: none"> • PLS_MAIL_ATTACHEMENT • PLS_MAIL_USE_TEXTFILE • PLS_MAIL_TEXTFILE • PLS_MAX_MAILSIZE • PLS_CRYPT • PLS_CRYPT_OPTIONS • PLS_MAIL_ZIP • PLS_MAIL_COMPRESS • PLS_MAIL_FILENAME • PLS_RECEIVER • PLS_RECEIVER_CC • PLS_RECEIVER_BCC • PLS_SENDER • PLS_SUBJECT • PLS_MESSAGE • PLS_MAIL_NOTIFICATION • PLS_MAIL_USE_SET_HEADER |
|  reference | <p>→ [PLOSSYS_PARAM_TEC]</p> |
|  hint - UTF-8 | <p>Pay attention that the header is saved in UTF-8 encoding when, for example, PLS_MESSAGE contains special characters. Otherwise, these might be displayed incorrectly at the mail receiver.</p> |

5.3 Output via PJJ

.....
This chapter describes the PLOSSYS netdome configuration for the output of print data as PJJ. purpose

.....
When PJJ is specified as output method for an output device, replies from the output device can be evaluated, such as which page has been printed at last and if the output job has been printed completely. PJJ

-
- More detailed information about the status of the output job is available and displayed in PLOSSYS OCON for example. advantages
 - When repeating a job after a cancellation, the job has not to be repeated completely but the output can be continued with the page output last.
-

Due to the permanently open connection between PLOSSYS netdome and the output device, the output is slower than via mtfilter for example. disadvantage

.....

Using SEAL Spooler is required for the output via PJJ. requirement


.....

This is how you configure the output via PJJ for an output device: instructions

| Step | Action |
|------|--|
| 1 | Open PLOSSYS OCON. |
| 2 | Open the settings of the output device. |
| 3 | In Printer Engine, check if SEAL Spooler is used: USE_SPOOLER activated |
| 4 | In Connection Data, specify PJJ as output method: OUTPUT PJJ |
| 5 | Save the settings. |

.....

In order to get more information in the output device and job log files, activate Debug in the output device properties:
DEBUG=Y

 hint -
debug and trace

With the output via PJJ, you get more information about the SEAL Spooler process if you set the SPOOL_DEB_TRACE environment variable to T.

→ *Environment Variables*, page 227

.....

5.4 Output via ZPL

purpose This chapter describes the PLOSSYS netdome configuration for the output of print data as ZPL.

ZPL ZPL is the protocol for assigning the Zebra label printer and via which you can get replies from the output device in contrast to the output via mtfiler. When ZPL is specified as output method for an output device, replies from the output device can be evaluated, such as which label has been printed at last and if the output job has been printed completely.

advantages

- More detailed information about the status of the output job is available and displayed in PLOSSYS OCON for example.
- When repeating a job after a cancellation, the job has not to be repeated completely but the output can be continued with the label output last.

disadvantage Due to the permanently open connection between PLOSSYS netdome and the output device, the output is slower than via mtfiler for example.

requirement The requirements for the output via ZPL are:

- SEAL Spooler is used.
- The output job is not changed by PLOSSYS netdome.

instructions This is how you configure the output via ZPL for an output device:

| Step | Action |
|------|---|
| 1 | Open PLOSSYS OCON. |
| 2 | Open the settings of the output device. |
| 3 | In Printer Engine, check if SEAL Spooler is used: USE_SPOOLER activated |
| 4 | Make sure that PLOSSYS netdome does not change the output file. Check in Job Processing: NATIVE_QUEUE Y |
| 5 | In Connection Data, specify ZPL as output method: OUTPUT ZPL SINGLE_PAGE_MONITORING=Y |
| 6 | Save the settings. |

5.5 Output via XPP

.....
This chapter describes the PLOSSYS netdome configuration for the output of print data as XPP. purpose

.....
XPP is the protocol for assigning COT line matrix printers. With the output via XPP, replies from the output device are evaluated, such as which page has been printed at last and if the output job has been printed completely. XPP

.....
The requirements for the output via XPP are: requirement

- SEAL Spooler is used.
- The output job is not changed by PLOSSYS netdome.

.....
This is how you configure the output via XPP for an output device: instructions

| Step | Action |
|------|---|
| 1 | Open PLOSSYS OCON. |
| 2 | Open the settings of the output device. |
| 3 | In Printer Engine, check if SEAL Spooler is used: USE_SPOOLER activated |
| 4 | Make sure that PLOSSYS netdome does not change the output file. Check in Job Processing: NATIVE_QUEUE Y |
| 5 | In Connection Data, specify XPP as output method: OUTPUT XPP |
| 6 | Save the settings. |

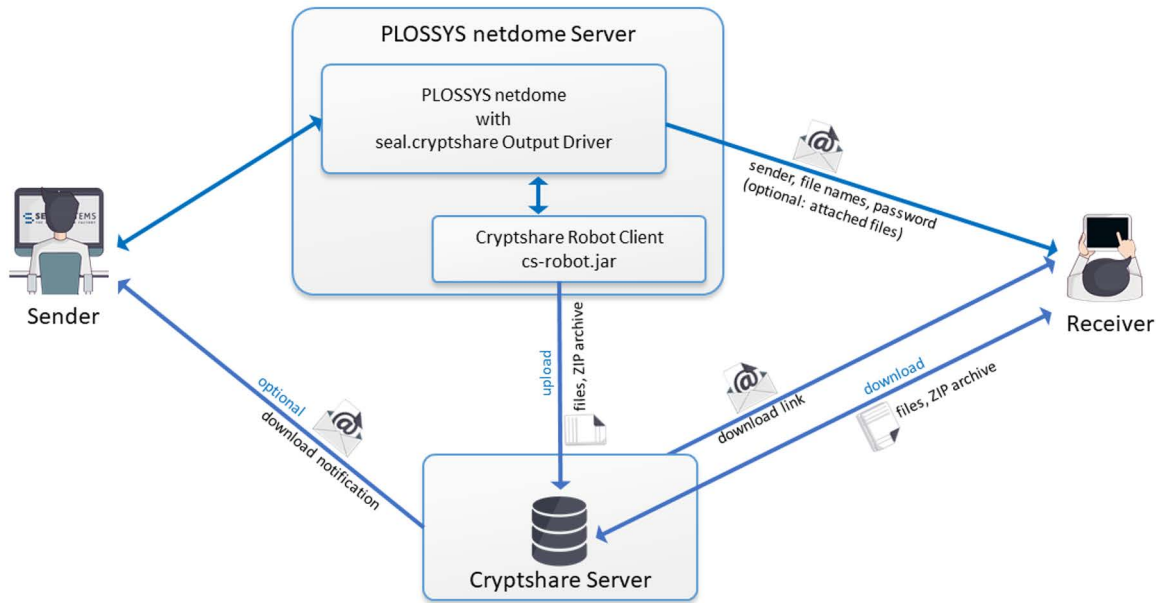
5.6 Output via Cryptshare

purpose

The chapter describes the PLOSSYS netdome configuration for outputting files via a Cryptshare server, that means for uploading files to a Cryptshare server.

Cryptshare

Via a Cryptshare server, big files can be transferred from one user to another. The functionality is similar to the one of PLOSSYS WEBportal, see [WEBPORTAL_TEC].



process

PLOSSYS netdome transfers the files to the Cryptshare server. The receiver gets an e-mail from the Cryptshare server providing the download link and another e-mail from PLOSSYS netdome providing the sender, the names of the uploaded files and the password for downloading the files.

encryption

The data transfer is completely encrypted.

job processing

For the Cryptshare output, the following job processing scenarios are available:

- All files of the set members are uploaded to the Cryptshare server.
- Some files of the set members are uploaded to the Cryptshare server, the remaining ones are sent as e-mail attachments.
- All files of the set members are sent as e-mail attachments. This scenario corresponds to the output via e-mail, see *Output Via E-Mail*, page 57.

To be continued

Output via Cryptshare, Continuation

.....
The functionality has been implemented by means of the command line tool, Cryptshare Robot.

Cryptshare
Robot

For more information about Cryptshare Robot, refer to the Cryptshare website:

 reference

- <https://www.cryptshare.com>

.....
This chapter deals with the following topics:

in this chapter

| Topic | Page |
|---------------------|------|
| requirement | 80 |
| Configuration | 81 |
| Debug Possibilities | 87 |

5.6.1 requirement

driver

.....
In order to output an job via Cryptshare, the following driver has to be used for the output device:

- `sea1.cryptshare.pdf_vr_pdf`



hint -
COLLECT_
JOB_MEMBERS

For the `sea1.cryptshare.pdf_vr_pdf` output driver, only `COLLECT_JOB_MEMBERS = 'CONCATMULTI'` is supported in `plossys.cfg`.
.....

Cryptshare

The following requirements has to be fulfilled at Cryptshare's side:

- A working Cryptshare environment has to be available.
 - The Cryptshare Robot client (`cs-robot.jar`) has to be installed on the PLOSSYS netdome server.
 - The required certificates (`client.store`) have to be installed on the PLOSSYS netdome server.
 - The users who want to use the Cryptshare connection in PLOSSYS netdome, have to verify themselves at Cryptshare. Normally, the user has to do this once before uploading but the verification may expire. In this case, the user has to reverify himself at Cryptshare.
-

5.6.2 Configuration

.....
This chapter deals with the following topics:

in this chapter

| Topic | Page |
|--|------|
| Configure the Cryptshare Robot Call | 82 |
| Configure the Cryptshare Output Settings | 83 |

.....

Configure the Cryptshare Robot Call

purpose

The output via the Cryptshare server has been implemented by means of the command line tool, Cryptshare Robot. The call of Cryptshare Robot is configured in the Perl script of the `sea1.cryptshare.pdf_vr_pdf` output driver.



Caution -
customer

Do not change `server\plotserv\plotter\sea1.cryptshare.pl!` Use only `server\plotserv\plotter\sea1.cryptshare.customer.pl` for the configuration!

instructions

This is how you configure the call of the command line tool, Cryptshare Robot:

| Step | Action |
|------|---|
| 1 | Customize <code>\$cryptshare_config</code> in <code>server\plotserv\plotter\sea1.cryptshare.customer.pl</code> : <code>csrobot</code> : Path to the command line tool, Cryptshare Robot <code>java</code> : Path to the Java program <code>clientStore</code> : Path to the certificates for Cryptshare <code>server</code> : URL of the Cryptshare servers |



example -
`$cryptshare_`
`config`

```
Readonly my $cryptshare_config =>
{
  csrobot    =>
    File::Spec->catfile('C:', 'CryptshareRobot', 'cs-robot.jar'),
  java      =>
    File::Spec->catfile('C:', 'java', 'bin', 'java.exe'),
  clientStore =>
    File::Spec->catfile('C:', 'CryptshareRobot', 'client.store'),
  server    =>
    'https://share.sealsystems-group.net',
};
```



hint - manda-
tory settings

For calling Cryptshare Robot, at least the following settings has to be configured:

- E-mail address of the sender (default: `PLS_SENDER`)
- E-mail address of the receiver (default: `PLS_RECEIVER`)
- Name of the sender (default: `PLS_DATA_1`)
- Phone number of the sender (default: `PLS_SDATA_2`)

→ *Configure the Cryptshare Output Settings*, page 83


Configure the Cryptshare Output Settings

For the output via a Cryptshare server, you can configure the following settings: purpose

| Setting | Function |
|-----------------------------------|-------------------------------------|
| E-mail address of the sender | → cryptshare_ sender |
| e-mail addresses of the receivers | → cryptshare_ receiver |
| Name of the sender | → cryptshare_ name |
| Phone number of the sender | → cryptshare_ phone |
| Notification for the sender | → cryptshare_ inform_sender |
| Password generation | → create_crypt share_pass- word |
| Upload or e-mail attachment | → upload_to_ cryptshare |
| Name of the uploaded file | → cryptshare_ filename |
| E-mail for receiver | → only_cryptshare _plus_mail |
| Packing as ZIP file | → create_crypt share_zip_- file |
| Name of the ZIP file | → cryptshare_ zipfile_name |
| Subject of the Cryptshare e-mail | → set_cryptshare_ mail_sub- ject |
| Text of the additional e-mail | → customer_mail_ body |


The settings are configured via functions in the server\plotserv\plotter\seal.cryptshare.customer.pl Perl script of the seal.cryptshare.pdf_vr_pdf output driver and are described below.

Do not change server\plotserv\plotter\seal.cryptshare.pl! Use only server\plotserv\plotter\seal.cryptshare.customer.pl for the configuration!

 **Caution** -
customer

The following header items are set by the output driver and must not be used elsewhere.

- CRYPTSHARE_UPLOAD
- CRYPTSHARE_SPOOLFILE
- CRYPTSHARE_BASENAME
- CRYPTSHARE_FILENAME

 **Caution** -
internal header
items

To be continued

Configure the Cryptshare Output Settings, Continuation

cryptshare_
sender

.....
The cryptshare_sender function returns the e-mail address of the sender.

Available values: String

- *sender_mail*

Default: Header item PLS_SENDER

cryptshare_
receiver

.....
The cryptshare_receiver function returns the e-mail addresses of the receivers.

Available values: String; multiple possible values are separated by commas.

- *receiver_1_mail,receiver_2_mail,...,receiver_n_mail*

Default: Header item PLS_RECEIVER

cryptshare_name

.....
The cryptshare_name function returns the name of the sender.

Available values: String

- *sender_name*

Default: Header item PLS_DATA_1

cryptshare_
phone

.....
The cryptshare_phone function returns the phone number of the sender.

Available values: String

- *sender_phone*

Default: Header item PLS_DATA_2

cryptshare_
inform_sender

.....
The cryptshare_inform_sender function returns if an e-mail is to be sent to the sender when the receiver has downloaded the file from the Cryptshare server.

Available values: Integer

- 0
No e-mail is sent to the sender.
- 1
The sender receives an e-mail.

Default: 0

..... *To be continued*

Configure the Cryptshare Output Settings, Continuation

.....
The `create_cryptshare_password` function returns if a password is to be generated for the download of the uploaded files.

`create_cryptshare_password`

Available values: Integer

- 0
The script does not generate a password. The password is generated by Cryptshare.
- 1
The script generates a password.

Default: 1

.....
The `upload_to_cryptshare` function returns if a file is uploaded to the Cryptshare server or if it is treated as e-mail attachment. For example, you can control this via an additional header item, `PLS_CRYPTSHARE`.

`upload_to_cryptshare`

Available values: Integer

- 0
The file is not uploaded to the Cryptshare server but attached to an e-mail.
- 1
The file is uploaded to the Cryptshare server.

Default: 1

.....
The `cryptshare_filename` function returns the name used for the file that is uploaded to the Cryptshare server.

`cryptshare_filename`

Available values: String

- `upload_name`

Default: Header item `PLS_ORIG_NAME` without path specification

.....
The `only_cryptshare_plus_mail` function returns if an e-mail is sent to the receiver although all files have been uploaded to the Cryptshare server and no password has been generated.

`only_cryptshare_plus_mail`

Available values: Integer

- 0
The receiver does not get an e-mail if all files has been uploaded to the Cryptshare server and no password has been generated.
- 1
In any case, the receiver gets an e-mail.

Default: 1

..... *To be continued*

Configure the Cryptshare Output Settings, Continuation

create_cryptshare_zip_file

.....
The create_cryptshare_zip_file function returns if the files are packed as ZIP file and uploaded as ZIP file to the Cryptshare server.

Available values: Integer

- 0
The files are uploaded as separate files.
- 1
The files are uploaded in a ZIP file.

Default: 1

cryptshare_zipfile_name

.....
The cryptshare_zipfile_name function returns the base name of the ZIP file. The setting is only used if the generation of the ZIP file has been activated, refer to the create_cryptshare_zip_file function.

Available values: String

- *zip_file_name*

Default: „PLOSSYS_CRYPTSHARE“

set_cryptshare_mail_subject

.....
The set_cryptshare_mail_subject function sets the PLS_SUBJECT header item, that means the text for the subject of the e-mail sent from the Cryptshare server to the receiver.

Available values: String

- *mail_subject*

Default: „PLOSSYS netdome - Cryptshare Upload“

customer_mail_body

.....
The customer_mail_body returns the body of the e-mail sent to the receiver by PLOSSYS netdome. If you specify a text here, the default text will be overwritten. The default text contains the e-mail address of the sender, the names of the uploaded files and, if generated by PLOSSYS netdome, the password for the download.

Available values: String

- *mail_text*

Default: „“, i. e. the internal fix text is used.

.....

5.6.3 Debug Possibilities

.....
In order to test the output script, some Perl variables are available in `seal.cryptshare.customer.pl`.

`seal.cryptshare.customer.pl`

.....
Activate `$DEBUG` in order to get more log messages:

```
$DEBUG = 1;
```

more messages

.....
Specify `$DB::Single` in order to debug the Perl script:

```
$DB::single = 1;
```

breakpoint

.....
The breakpoint only works if `seal.cryptshare.pl` is started with debugger, that means if you have specified `-d:ptkdb` in the first line.

 hint
`-d:ptkdb`

.....
Activate `$TESTMOCK` in order to simulate the output script without calling Cryptshare Robot for the success or error case:

simulation

Simulation of the success case:

```
my $TESTMOCK='ok';
```

Simulation of the error case:

```
my $TESTMOCK='error';
```

.....

6 Configuration of the Output Devices

in this chapter

This chapter deals with the following topics:

| Topic | Page |
|---|------|
| Configuration Options | 89 |
| Setting the Borders | 118 |
| Configuration Possibilities of Output Devices | 131 |
| Configuration as Pool Device | 139 |
| Configuration of the Controlling with GEKKO | 158 |

6.1 Configuration Options

This chapter deals with the following topics:

in this chapter

| Topic | Page |
|--|-------------|
| Basics | 90 |
| Format-Independent Settings | 91 |
| Specification of the Output Job Sizes | 96 |
| Specification of the Paper Sizes | 98 |
| Assignment of Output Job Sizes and Paper Sizes | 106 |
| Paper Selection and Rotation for the Output | 109 |
| Establishing of User Groups | 110 |
| Using Subqueues | 113 |
| Paper Optimization | 114 |
| Tray Activation on Devices with Several Trays | 116 |

Basics

output device configuration file

.....
The media formats (such as paper formats) of an output device are described in a separate configuration file. In the following, this file is referred to as output device configuration file. Here, the sizes of the currently available media as well as the mapping of permissible output job sizes onto the specified media are specified.
.....

location and name

.....
The output device configuration files are located in the server\plotserv\plotter directory.
.....

By default, this directory is searched for a file containing the name of the output device, as it has been specifies with PLOTTER_NAME in plossys.cfg. Optionally, another name can be specified via the CONFIG keyword in the output device section of plossys.cfg. Thus, several output devices of the same type can be installed by means of one output device configuration file. The output device configuration file has the extension .cfg.
.....

format

.....
The output device configuration file has the PLOSSYS configuration file ini format.
.....

structure

.....
The sections are arranged in hierarchic order. The top section is named LGC. All sections of the output device configuration file are subsections of the LGC section.
.....

keywords

.....
To the keywords that are identified as mandatory, a value has to be assigned in the output device configuration file. If no value is assigned to these keywords, the output driver aborts the start operation with an error message. Such keywords have no defaults.
.....

log/trace messages

.....
Apart from the specification and assignment of the drawing medium formats, the output device configuration file may also contain the configuration of the log/trace messages.
.....

Caution

.....
Output device configuration files are created during the installation and are maintained by the system administrator. Changes within the output device configuration file may affect the functionality of PLOSSYS netdome.
.....

Format-Independent Settings

.....
The [LGC\SETTINGS] section contains items which can be set for all output job formats equally.

LGC\SETTINGS

.....
ALIGNMENT specifies how the drawing is positioned on the logical paper at output. If a drawing is smaller than the logical paper, the parameter helps to adjust on which position a white border appears.

ALIGNMENT

Available values: Enumeration

- BOTTOM
The drawing is positioned on the bottom border of the logical paper.
- CENTER
The drawing is positioned in the center of the logical paper.
- TOP
The drawing is positioned on the top border of the logical paper.

Default: BOTTOM

.....
CONS_NAME specifies the name of the paper format in the console of PLOSSYS netdome.

CONS_NAME

Available values: Enumeration

- *format*
format is displayed as name.
- AS_IS
The name from the configuration will be displayed, see PAPER_SIZES.

Default: AS_IS

.....
DRAWING_OF_UNDERSIZE specifies if the output is allowed.


DRAWING_OF_UNDERSIZE

Available values: Boolean

- YES
Output is allowed.
- NO
Output is not allowed.

Default: YES

DRAWING_OF_UNDERSIZE is only evaluated with the automatic paper selection.

 hint - evaluation

..... *To be continued*

Format-Independent Settings, Continuation

GXC_TOLERANCE

.....
GXC_TOLERANCE specifies the tolerance X and Y direction within the GXC engine maps the output job to a size from the [LGC\SIZE_DEFINITIONS\XXX] section. XXX stands for ISO, ANSI or BOTH. The PLOTTER_ISOANSI item in plossys.cfg specifies the relevant [LGC\SIZE_DEFINITIONS\XXX] section.

Available values: Float

- *meter*

Default: Value of PDF_TOLERANCE

.....

GXC_WHITE_BORDER

.....
GXC_WHITE_BORDER specifies if the drawing is enlarged by the border specified [LGC\PAPER_SIZES\...]GXC_BORDER.

Available values: Boolean

- YES
The drawing will be enlarged.
- NO
The drawing will not be enlarged.

Default: Value of PDF_WHITE_BORDER



hint - usage

Augmenting an output job by adding white border areas is useful especially with files of PDF input format on output with PostScript- or PCL6-driver, as this makes offset entries in the output device configuration files p1otterxxx.db unnecessary. On output of PDF files this relieves you from calling the script pdf2ps.pl.

.....

PAPER_SIZES

.....
PAPER_SIZES specifies which paper sizes are used for the output.

Available values: Enumeration

- CONFIG
The paper sizes specified under [LGC\PAPER_SIZES] are evaluated.
- AS_IS
The output job size is used as paper size and the rotation is set to 0 degrees. No scaling is executed. This is useful if the output job is to be converted, stamped, etc., but not output, just displayed or archived. Thus, a 1:1 mapping between original output job and spool file is obtained.

Default: CONFIG

.....

To be continued

Format-Independent Settings, Continuation

.....
GXC_TOLERANCE specifies the tolerance X and Y direction within a PDF job is mapped job to a size from the [LGC\SIZE_DEFINITIONS\XXX] section. XXX stands for ISO, ANSI or BOTH. The PLOTTER_ISOANSI item in plossys.cfg specifies the relevant [LGC\SIZE_DEFINITIONS\XXX] section.

PDF_TOLERANCE

Available values: Float

- *meter*

Default: Value of RASTER_TOLERANCE

.....
PDF_WHITE_BORDER specifies if the PDF job is enlarged by the border specified [LGC\PAPER_SIZES\...]PDF_BORDER.

PDF_WHITE_BORDER

Available values: Boolean

- YES
The drawing will be enlarged.
- NO
The drawing will not be enlarged.

Default: Value of RASTER_WHITE_BORDER

Augmenting an output job by adding white border areas is useful especially with files of PDF input format on output with PostScript- or PCL6-driver, as this makes offset entries in the output device configuration files p1otterxxx.db unnecessary. On output of PDF files this relieves you from calling the script pdf2ps.pl.

 hint - usage

If the document is left in this size (PDF_WHITE_BORDER=N), several settings in the *.db-, *.pcfg- and *.pl files have to guarantee that the document is placed within the printable area and not directly at the border due to otherwise the output device may cut the borders.

..... *To be continued*

Format-Independent Settings, Continuation

PLOT_HEADER

.....
PLOT_HEADER specifies when the title block of the drawing is to be output by the output device. It is assumed that the title block is located in the bottom right-hand corner of the drawing. As with the automatic paper selection no rotation on the logical paper can be specified, all output jobs can be rotated by 180 degrees by means of PLOT_HEADER. This is mainly necessary if a folding device is connected and the title block is to be visible after the drawing has been folded.

Available values: Enumeration

- FRONT
The title block comes out first.
- BACK
The title block comes out last.

Default: FRONT



hint - evaluation

PLOT_HEADER is only evaluated with the automatic paper selection.

RASTER_TOLERANCE

.....
RASTER_TOLERANCE specifies the tolerance X and Y direction within a raster job is mapped job to a size from the [LGC\SIZE_DEFINITIONS\XXX] section. XXX stands for ISO, ANSI or BOTH. The PLOTTER_ISOANSI item in plossys.cfg specifies the relevant [LGC\SIZE_DEFINITIONS\XXX] section.

Available values: Float

- *meter*

Default: Value of VECTOR_TOLERANCE

RASTER_WHITE_BORDER

.....
RASTER_WHITE_BORDER specifies if the raster job is enlarged by the border specified [LGC\PAPER_SIZES\...]RASTER_BORDER.

Available values: Boolean

- YES
The drawing will be enlarged.
- NO
The drawing will not be enlarged.

Default: Value of VECTOR_WHITE_BORDER



hint - usage

Augmenting an output job by adding white border areas is useful especially with files of PDF input format on output with PostScript- or PCL6-driver, as this makes offset entries in the output device configuration files p1otterxxx.db unnecessary. On output of PDF files this relieves you from calling the script pdf2ps.pl.

..... *To be continued*

Format-Independent Settings, Continuation

.....
SCALING_OF_OVERSIZE specifies if the drawing is scaled.


SCALING_OF_ OVERSIZE

Available values: Boolean

- YES
The drawings are scaled and output on the largest paper format currently loaded.
- NO
The drawings are not scaled.

Default: NO

SCALING_OF_OVERSIZE is only evaluated with the automatic paper selection.

 hint - evaluation

.....
VECTOR_TOLERANCE specifies the tolerance X and Y direction within a vector job is mapped job to a size from the [LGC\SIZE_DEFINITIONS\XXX] section. XXX stands for ISO, ANSI or BOTH. The PLOTTER_ISOANSI item in plossys.cfg specifies the relevant [LGC\SIZE_DEFINITIONS\XXX] section.

VECTOR_ TOLERANCE

Available values: Float

- *meter*

Default: 0.0

.....
VECTOR_WHITE_BORDER specifies if the vector job is enlarged by the border specified [LGC\PAPER_SIZES\...]VECTOR_BORDER.

VECTOR_WHITE_ BORDER

Available values: Boolean

- YES
The drawing will be enlarged.
- NO
The drawing will not be enlarged.

Default: NO

Augmenting an output job by adding white border areas is useful especially with files of PDF input format on output with PostScript- or PCL6-driver, as this makes offset entries in the output device configuration files p_{lotter}xxx.db unnecessary. On output of PDF files this relieves you from calling the script pdf2ps.pl.

 hint - usage

Specification of the Output Job Sizes

SIZE_ DEFINITIONS

For each possible document size, a symbolic name is specified and the format is specified in meters (m). The format definitions are grouped together. The specification for ISO/ANSI or mixed sizes are located in different sections. These sections are named [LGC\SIZE_DEFINITIONS\XXX] (XXX for ISO, ANSI or BOTH).



hint

If an output device handles both ISO and ANSI output job formats, the [LGC\SIZE_DEFINITIONS\BOTH] section has to contain all possible output job sizes with ISO and ANSI format.

orientation

The output job sizes are specified regardless of their orientation – landscape or portrait. To the specified symbolic names, _P for the portrait, _L for the landscape orientation and 0 for the overlength is appended by the program internally. Thus, only one line is required for specifying, for example, a DIN A4 output job size; see also the following excerpt from a output device configuration file:

logical output job sizes

```
[LGC\SIZE_DEFINITIONS\ISO]
```

| | |
|-------------|--------------|
| DINA4=0.210 | 0.297 |
| DINA40 | = 0.210 9.00 |
| DINA3=0.297 | 0.420 |
| DINA30 | = 0.287 9.00 |
| SPEZIAL | = 0.287 9.00 |

Symbolic names

Output job sizes in m

When using the symbolic names in the remaining sections of the output device configuration file, these extensions have to be added to the symbolic names.

determining the permissible output job size

In order to determine the correct size of an output job and its symbolic name internally, the size entered in the header with PLS_PLOTSIZE is compared to the format definitions in the [LGC\SIZE_DEFINITIONS\ISO], [LGC\SIZE_DEFINITIONS\ANSI] or [LGC\SIZE_DEFINITIONS\BOTH] section. The PLOTTER_ISOANSI item in plossys.cfg specifies the relevant section.

..... To be continued

Specification of the Output Job Sizes, Continuation

.....
By default, the [LGC\SIZE_DEFINITION] section is included in the output device configuration file. These settings are relevant if the [LGC\SIZE_DEFINITIONS\XXX] section specified by the PLOTTER_ISOANSI item in plossys.cfg does not exist.



.....
Within the [LGC\SIZE_DEFINITIONS\XXX] sections the order of the format definitions is essential:

order

- The first format specification from the top that has at least the same size as the output job is regarded as found. Each format definition is used twice, once as landscape and once as portrait.
- The sizes have to be specified from the top to the bottom in ascending order, starting with the smallest size!
- If the output job is larger than all definitions listed, the last definition is used as permissible output job size.

Specification of the Paper Sizes

PAPER_SIZES

.....
Apart from the allowed document sizes, the available actual paper sizes have to be specified in the section [LGC\PAPER_SIZES] as well.

The specification of the available paper sizes are located in several sections which have a hierarchical structure.

In contrast to the specification of the output job sizes, the order is irrelevant here.

.....



hint

For devices that use rolls, *XXX_SIZE* should always be specified as landscape size, with *XXX* representing VECTOR, RASTER, PDF or GXC.

.....

ACTIVE

ACTIVE specifies the names of the subsections containing the paper format specifications.

Available values: List of strings

- *section1 section2 section3*

Default: none

.....



hint - evaluation

ACTIVE is only evaluated if a more specific item, ACTIVE_ISO, ACTIVE_ANSI or ACTIVE_BOTH, is missing depending on the PLOTTER_ISOANSI item in *plossys.cfg*.

.....

ACTIVE_ANSI

ACTIVE_ANSI specifies the names of the subsection containing the paper format specifications that are valid if PLOTTER_ISOANSI in *plossys.cfg* has been set to ANSI.

Available values: List of strings

- *section1 section2 section3*

Default: Value of ACTIVE

.....

ACTIVE_BOTH

ACTIVE_BOTH specifies the names of the subsection containing the paper format specifications that are valid if PLOTTER_ISOANSI in *plossys.cfg* has been set to BOTH.

Available values: List of strings

- *section1 section2 section3*

Default: Value of ACTIVE

.....

To be continued

Specification of the Paper Sizes, Continuation

.....
ACTIVE_ISO specifies the names of the subsection containing the paper format specifications that are valid if PLOTTER_ISOANSI in plossys.cfg has been set to ISO.

ACTIVE_ISO

Available values: List of strings

- *section1 section2 section3*

Default: Value of ACTIVE

.....
In the [LGC\PAPER_SIZES\sectionx] subsection, you specify the correspondent paper format. The following settings are available for this:

subsection

.....
CONS_NAME specifies the name of the paper format in the console of PLOSSYS netdome.


CONS_NAME

Available values: String

- *format*

Default: none

The value in CONS_NAME is translated via the language configuration files, tools\language\plotter*.cfg. If the item contains a blank, PLOSSYS netdome automatically replaces the blank by an underline. In order to refer to this item in the language configuration file, it has to be specified with an underline instead of the blank. In the console of PLOSSYS netdome, the item for CONS_NAME is displayed with a blank.

 hint - language file

.....
GXC_BORDER specifies the border for the non-printable area for jobs processed by the GXC engine.

GXC_BORDER

Available values: List of floats

- *left bottom right up*
The directions refer to the logical paper.

Default: Value of RASTER_BORDER

..... *To be continued*

Specification of the Paper Sizes, Continuation

GXC_PLOTTER_MODEL

.....
GXC_PLOTTER_MODEL specifies the rotation for job processed by the GXC engine.

Available values: Enumeration

- DEFAULT_MODEL
No rotation
- L+0
Rotation by 0 or 90 degrees, until the document is present in landscape.
- L+180
Same as L+0, with additional rotation by 180 degrees afterwards.
- P+0
Rotation by 0 or 90 degrees, until the document is present in portrait.
- P+180
Same as P+0, with additional rotation by 180 degrees afterwards.

Default: DEFAULT_MODEL



hint - rotation

The rotation is counterclockwise. This rotation overwrites the fixed physical rotation specified with GXC_ROTATION.

GXC_ROTATION

.....
GXC_ROTATION specifies the fixed rotation for jobs processed by the GXC engine if the coordinate system of the output device does not match the one of the logical paper models.

Available values: Enumeration

- 0
No rotation
- 90
Rotation by 90 degrees
- 180
Rotation by 180 degrees
- 270
Rotation by 270 degrees

Default: Value of RASTER_ROTATION

GXC_SIZE

.....
GXC_SIZE specifies the physical paper size for the jobs processed by the GXC engine.

Available values: Enumeration

- *length width*
Length and width of the paper in meters.
- *name*
Symbolic name from the section [LGC\SIZE_DEFINITIONS\XXX] (XXX for ISO, ANSI or BOTH) with the ending of _L or _P.

Default: Value of RASTER_SIZE

..... *To be continued*

Specification of the Paper Sizes, Continuation

.....
PDF_BORDER specifies the border for the non-printable area for PDF jobs.

PDF_BORDER

Available values: List of floats

- *Left bottom right up*
The directions refer to the logical paper.

Default: Value of RASTER_BORDER

.....
PDF_PLOTTER_MODEL specifies the rotation of the PDF jobs.


PDF_PLOTTER_MODEL

Available values: Enumeration

- DEFAULT_MODEL
No rotation
- L+0
Rotation by 0 or 90 degrees, until the document is present in landscape.
- L+180
Same as L+0, with additional rotation by 180 degrees afterwards.
- P+0
Rotation by 0 or 90 degrees, until the document is present in portrait.
- P+180
Same as P+0, with additional rotation by 180 degrees afterwards.

Default: Value of RASTER_ROTATION_MODEL

The rotation is counterclockwise. This rotation overwrites the fixed physical rotation specified with PDF_ROTATION.

 hint - rotation

.....
PDF_ROTATION specifies the fixed rotation for PDF jobs if the coordinate system of the output device does not match the one of the logical paper models.

PDF_ROTATION

Available values: Enumeration

- 0
No rotation
- 90
Rotation by 90 degrees
- 180
Rotation by 180 degrees
- 270
Rotation by 270 degrees

Default: Value of RASTER_ROTATION

..... *To be continued*

Specification of the Paper Sizes, Continuation

PDF_SIZE

PDF_SIZE specifies the physical paper size for the PDF jobs.

Available values: Enumeration

- *length width*
Length and width of the paper in meters.
- *name*
Symbolic name from the section [LGC\SIZE_DEFINITIONS\XXX] (XXX for ISO, ANSI or BOTH) with the ending of _L or _P.

Default: Value of RASTER_SIZE

RASTER_BORDER

RASTER_BORDER specifies the border for the non-printable area for raster jobs.

Available values: List of floats

- *left bottom right up*
The directions refer to the logical paper.

Default: Value of VECTOR_BORDER

RASTER_PLOTTER_MODEL

RASTER_PLOTTER_MODEL specifies the rotation of the raster jobs.

Available values: Enumeration

- DEFAULT_MODEL
No rotation
- L+ θ
Rotation by 0 or 90 degrees, until the document is present in landscape.
- L+180
Same as L+ θ , with additional rotation by 180 degrees afterwards.
- P+ θ
Rotation by 0 or 90 degrees, until the document is present in portrait.
- P+180
Same as P+ θ , with additional rotation by 180 degrees afterwards.

Default: Value of VECTOR_PLOTTER_MODEL



hint - rotation

The rotation is counterclockwise. This rotation overwrites the fixed physical rotation specified with RASTER_ROTATION.

..... To be continued

Specification of the Paper Sizes, Continuation

.....
RASTER_ROTATION specifies the fixed rotation for raster jobs if the coordinate system of the output device does not match the one of the logical paper models.

RASTER_ROTATION

Available values: Enumeration

- 0
No rotation
- 90
Rotation by 90 degrees
- 180
Rotation by 180 degrees
- 270
Rotation by 270 degrees

Default: Value of VECTOR_ROTATION

.....
PDF_SIZE specifies the physical paper size for the raster jobs.

RASTER_SIZE

Available values: Enumeration

- *length width*
Length and width of the paper in meters.
- *name*
Symbolic name from the section [LGC\SIZE_DEFINITIONS\XXX] (XXX for ISO, ANSI or BOTH) with the ending of _L or _P.

Default: Value of VECTOR_SIZE

.....
VECTOR_BORDER specifies the border for the non-printable area for vector jobs.

VECTOR_BORDER

Available values: List of floats

- *left bottom right up*
The directions refer to the logical paper.

Default: 0.0 0.0 0.0 0.0

..... *To be continued*

Specification of the Paper Sizes, Continuation

VECTOR_PLOTTER_MODEL

RASTER_PLOTTER_MODEL specifies the rotation of the vector jobs.

Available values: Enumeration

- DEFAULT_MODEL
No rotation
- L+0
Rotation by 0 or 90 degrees, until the document is present in landscape.
- L+180
Same as L+0, with additional rotation by 180 degrees afterwards.
- P+0
Rotation by 0 or 90 degrees, until the document is present in portrait.
- P+180
Same as P+0, with additional rotation by 180 degrees afterwards.

Default: DEFAULT_MODEL



hint - rotation

The rotation is counterclockwise. This rotation overwrites the fixed physical rotation specified with VECTOR_ROTATION.

VECTOR_ROTATION

VECTOR_ROTATION specifies the fixed rotation for vector jobs if the coordinate system of the output device does not match the one of the logical paper models.

Available values: Enumeration

- 0
No rotation
- 90
Rotation by 90 degrees
- 180
Rotation by 180 degrees
- 270
Rotation by 270 degrees

Default: 0

VECTOR_SIZE

PDF_SIZE specifies the physical paper size for the vector jobs.

Available values: Enumeration

- *length width*
Length and width of the paper in meters.
- *name*
Symbolic name from the section [LGC\SIZE_DEFINITIONS\XXX] (XXX for ISO, ANSI or BOTH) with the ending of _L or _P.

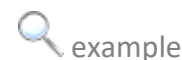
Default: 9.00 0.594

..... To be continued

Specification of the Paper Sizes, Continuation

.....

The output device has two input trays and can use DIN A3 and DIN A4 paper, but cannot print up to the border of the paper. This non-printable area differs in size for vector output jobs and raster output jobs.



In the following excerpt from an output device configuration file, there are no specifications for PDF output jobs. In this case, the settings for raster output jobs are used. In the specification of the DIN A4 paper, some specifications for raster output jobs are missing in addition. In this case, the setting for vector output jobs are applicable.

```
[LGC\PAPER_SIZES]
ACTIVE = PAPERA3 PAPERA4
[LGC\PAPER_SIZES\PAPERA3]
VECTOR_SIZE      = DINA3_L
VECTOR_BORDER    = 0.0046 0.0046 0.0039 0.0039
VECTOR_ROTATION  = 0
RASTER_SIZE      = DINA3_L
RASTER_BORDER=0.0032 0.0032 0.0025 0.0025
RASTER_ROTATION  = 0
RASTER_SIZE      = DINA3_L
RASTER_BORDER    = 0.0032 0.0032 0.0025 0.0025
RASTER_ROTATION  = 0
CONS_NAME        = "DIN A3"
[LGC\PAPER_SIZES\PAPERA4]
VECTOR_SIZE      = DINA4_P
VECTOR_BORDER    = 0.0046 0.0046 0.0039 0.0039
VECTOR_ROTATION  = 0
RASTER_BORDER    = 0.0032 0.0032 0.0025 0.0025
CONS_NAME        = "DIN A4"
```

.....

Assignment of Output Job Sizes and Paper Sizes

PLOT_PAPER_MAPPING

After specifying the output job and paper sizes, it has to be specified which paper size is to be output on which logical paper. Generally, this assignment is the same for all output devices.

up to 10 alternatives

For each allowed output job size, an item exists with at least one assignment to a logical paper size including the rotation possible required. For each output job size there may at maximum ten alternatives.



hint

The PLOTTER_ISOANSI keyword in plossys.cfg specifies which of the [LGC\SIZE_DEFINITIONS\XXX] (XXX for ISO, ANSI or BOTH) sections contains the currently available output job sizes for which an assignment is necessary.

automatic paper selection

If there is no explicit assignment of output job sizes to paper sizes, the automatic paper selection is used.



Caution

The rotation is always specified in such a way, that an optimum fit of the output job format on the logical paper is achieved.

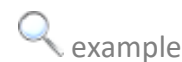
By specifying the X and Y value in [LGC\PAPER_SIZES\XXX], it is specified whether the logical paper is present in landscape or portrait. The X value represents the value in the direction of paper motion in the logical paper model. Alternatively, one of the size specifications from [LGC\SIZE_DEFINITIONS\XXX] (XXX for ISO, ANSI or BOTH) can be used, with the ending _L for landscape and _P for portrait. The PLOTTER_ISOANSI item in plossys.cfg specifies the relevant [LGC\SIZE_DEFINITIONS\XXX] section.

..... *To be continued*

Assignment of Output Job Sizes and Paper Sizes,

Continuation

Extract of the output device configuration file:



```
[LGC\PLOT_PAPER_MAPPING]
# Mapping of output job sizes onto paper
sizes
alternative. 1alternative. 2
alternative. 3alternative. 4
#Plot size
DINA4_P = ROLLA3 0 ROLLA2 0 ROLLA1 0 ROLLA0 0
DINA4_L = ROLLA3 90 ROLLA2 90 ROLLA1 90 ROLLA0 90
DINA40_P = ROLLA3 90 ROLLA2 90 ROLLA1 90 ROLLA0 90
DINA40_L = ROLLA3 0 ROLLA2 0 ROLLA1 0 ROLLA0 0
ANSIA_P = SIZEA 90 SIZEB 0
ANSIA_L = SIZEA 0 SIZEB 90
ANSIA0_P = SIZEA 90 SIZEB 90
ANSIA0_L = SIZEA 0 SIZEB 0
DINA3_P = ROLLA3 90 ROLLA2 0 ROLLA1 0 ROLLA0 0
DINA3_L = ROLLA3 0 ROLLA2 90 ROLLA1 90 ROLLA0 90
DINA30_P = ROLLA3 90 ROLLA2 90 ROLLA1 90 ROLLA0 90
DINA30_L = ROLLA3 0 ROLLA2 0 ROLLA1 0 ROLLA0 0
ANSIB_P = SIZEB 90
ANSIB_L = SIZEA 0
ANSIB0_P = SIZEA 90
ANSIB0_L = SIZEA 0
DINA2_P = ROLLA1 0 ROLLA2 90 ROLLA0 0
DINA2_L = ROLLA1 90 ROLLA2 0 ROLLA0 90
DINA20_P = ROLLA1 90 ROLLA2 90
DINA20_L = ROLLA1 0 ROLLA2 0
ANSIC_P = SIZEB 90
ANSIC_L = SIZEA 0
ANSIC0_P = SIZEA 90
ANSIC0_L = SIZEA 0
DINA1_P = ROLLA1 90 ROLLA0 0
DINA1_L = ROLLA1 0 ROLLA0 90
DINA10_P = ROLLA1 90 ROLLA0 90
DINA10_L = ROLLA1 0 ROLLA0 0
ANSID_P = SIZEB 90
ANSID_L = SIZEA 0
```

..... To be continued

Assignment of Output Job Sizes and Paper Sizes,

Continuation



hint

.....

The PLOTTER_ISOANSI keyword in plossys.cfg specifies which of the [LGC\SIZE_DEFINITIONS\XXX] (XXX for ISO, ANSI or BOTH) sections contains the currently available output job sizes for which an assignment is necessary.

.....

automatic paper
selection

.....

If there is no explicit assignment of output job to paper sizes, the automatic paper selection is used.

.....



Caution

.....

The rotation is always specified in such a way, that an optimum fit of the output job format on the logical paper is achieved.

By specifying the X and Y value in [LGC\PAPER_SIZES\XXX], it is specified whether the logical paper is present in landscape or portrait. The X value represents the value in the direction of paper motion in the logical paper model. Alternatively, one of the size specifications from [LGC\SIZE_DEFINITIONS\XXX] (XXX for ISO, ANSI or BOTH) can be used, with the ending _L for landscape and _P for portrait. The PLOTTER_ISOANSI item in plossys.cfg specifies the relevant [LGC\SIZE_DEFINITIONS\XXX] section.

.....

Paper Selection and Rotation for the Output

Two methods are supported to select the appropriate paper:

action

- Explicit paper selection
- Automatic paper selection

In the case of the explicit paper selection, the entries in the output device configuration file specify which output job size is output on which paper size as well as the rotation that is used.

In the case of the automatic paper selection, it is left to the output driver to determine the suitable paper size for the given output job size.

Both methods have in common, that in the first step the permissible output job size is determined on the basis of the actual output job size.

The permissible output job size is the symbolic specification of an output job size in the output device configuration file. The permissible output job size is determined on the basis of the actual output job size which is entered with PLS_PLOTSIZE in the job header. The specification of the permissible output job sizes is located in the [LGC\SIZE_DEFINITIONS\XXX] section (XXX for ISO, ANSI or BOTH) in the output device configuration file. The PLOTTER_ISOANSI item in plossys.cfg specifies the relevant [LGC\SIZE_DEFINITIONS\XXX] section.

determining the permissible output job size

The specification of the permissible output job sizes looks as follows:

```
[LGC\SIZE_DEFINITIONS\ISO]
```

```
DINA4=0.210 0.297  
DINA4O = 0.210 9.00  
DINA3=0.297 0.420  
DINA3O = 0.287 9.00  
SPEZIAL = 0.287 9.00
```

Symbolic names
allowed output job sizes

Output job sizes in m

For further paper selection, only the permissible output job size determined is relevant.



Caution

Establishing of User Groups

purpose

.....

User groups can be used for accounting and tracking output job costs. Each output device can be allowed or forbidden for specific user groups. If a user wants to output on a device, which his or her user groups are not authorized for, the job is not output but transferred to the list of erroneous jobs. A message is written into the PLOSSYS netdome log file. Even whole pool device can be forbidden or allowed for user groups.

.....

Configuration

The user group has to be set in the header with PLS_USERGROUP. The default is "". For set collation the user group has to be set in the set header. Only this item is used for evaluation.

example

Example of a user group item:
PLS_USERGROUP == „KDOE“

.....

activating the monitoring of user groups

USE_USERGROUPS in the system section of plossys.cfg specifies if the user groups are to be monitored. Default is NO. By means of this setting, the monitoring can be switched off in general, without changes having to be made in the output device sections.

.....

default behavior

With USERGROUP_DEFAULT in the system section, a default behavior is specified for jobs which have not been assigned to a user group, or the user group of which is not listed as authorized or unauthorized for the output device. PLOT or ERROR can be selected. With PLOT, the job is output, even if no user group has been specified. Additionally, a warning is written into the PLOSSYS netdome log file. With ERROR, the job is entered into the list of faulty jobs, and an error message is written into the PLOSSYS netdome log file. The default is PLOT.

.....

example

Example for the default behavior:
[SYSTEM]
...
USE_USERGROUP YES # YES or NO
USERGROUP_DEFAULT PLOT # PLOT or ERROR
...

.....

To be continued

Establishing of User Groups, Continuation


.....
The user configuration file is specified with USERGROUP_FILE in the output device section. This file contains all user groups which are allowed to output on this output device (ALLOWED) or not allowed (FORBIDDEN). Default is "". The file is searched for in the server\plotserv\plotter directory. If the file or the item is not present, or USE_USERGROUP in the system section has been set to NO, no monitoring is performed for this output device.

user configura-
tion file

With USERGROUP_ACTION_PRIO, the action (FORBIDDEN or ALLOWED) is specified which is to be given priority if a group appears several times in the user configuration file. Default is FORBIDDEN.

.....
Example for the user configuration file:

```
[xes8830]
  USERGROUP_ACTION_PRIOALLOWED
  USERGROUP_FILE           output_device.usr
  ...
```

 example

.....
The user configuration file has the following format:

user configura-
tion file - format

```
[USERGROUPS]
  ALLOWED           group1 group2 ... groupn
  FORBIDDEN        group1 group2 ... groupn
```

The wild cards '*' and '?' can be used to specify the groups.

.....
If monitoring is to be performed and there is a user configuration file, the system checks, whether the user group from PLS_USERGROUPS is allowed or forbidden in the user configuration file. If there is no item, the default behavior USERGROUP_DEFAULT is used. If the user group is both allowed and forbidden, the action specified by USERGROUP_ACTION_PRIO is given priority. If the output device is forbidden for this user group, the job is entered in the list of erroneous jobs, and an error message is written into the PLOSSYS netdome log file.

action

..... To be continued

Establishing of User Groups, Continuation

example

Example of the item in `plossys.cfg`:

```
[SYSTEM]
USE_USERGROUP          YES      # YES or NO
USERGROUP_DEFAULT     ERROR    # PLOT or ERROR
...
[xes8830]
    USERGROUP_ACTION_PRIO    FORBIDDEN
    USERGROUP_FILE           xes8830.usr
```

Items in `xes8830.usr`:

```
ALLOWED      TE* KDO* BA7
FORBIDDEN    TE47
```

Behavior considering the following items of the header for `PLS_USERGROUP`:

```
PLS_USERGROUP == "KDOE"      Output
PLS_USERGROUP == "TE47"      false
PLS_USERGROUP == "FE3"       default: false
```

user group and pool device

If a job is output via a pool device which has been released for the user group, but the individual output device selected is forbidden for the user group, the job is output nevertheless. The settings of the output device specified in the header are always the decisive factors. If in the above case the individual output device had been specified directly in the job, the job would not have been output, but entered in the list of faulty jobs.

Using Subqueues

.....
Device subaddresses serve to control a large number of devices of the same type in an easy and efficient way which is especially useful for output devices which are only used for outputs from time to time (e. g. workstation printers of DIN A4 or DIN A3 format).

purpose

.....
Device subaddresses can be used if

requirements

- all the devices connected to a queue are of the same type, and can be operated with the same configuration,
- all devices can be operated via output devices queues, i. e. a spooled output is performed without further monitoring (in the case of output monitoring, for example, a paper jam would block all devices),
- no paper optimization is used and
- no set collations are used.

.....
Device subaddresses cannot be used under the following conditions:

exclusion criteria

- With paper optimization
- With set collations
- With different devices or device configurations
- With direct output via FTP, COPY etc., i. e. when better monitoring of the output devices is required
- If the devices are intensively used. In this case, individual queues should be preferred, as this represents the only way of operating the devices simultaneously.


.....
A subqueue is addressed via the PLS_SUBADR header item. This value is read out in the output script of the output device which is specified with PORT_OR_SCRIPT in the output device section of plossys.cfg, and the respective output device queue is activated.

subaddresses

Paper Optimization

background knowledge

.....
The paper optimization serves to minimize the loss of paper. An optimized package consists of several individual jobs which are temporarily combined for the purpose of optimization. The single jobs may come from different users.
.....

 **Caution** - restriction

.....
Only jobs in the GKSM and CGM format are optimized.
.....

optimization by number, amount or time

.....
If an output device is configured for optimization in `plossys.cfg`, the jobs for this output device are made available for the paper optimization. For this purpose all the jobs are collected and summarized until

- there is a sufficient number of jobs for an output device,
- the total amount of drawings that can be combined exceeds a given value,
- a fixed period of time has elapsed, the jobs are combined for the output later on.

If there is already an optimized package, further drawings are attached to this package, if possible.

single jobs

When the drawings are output, the single jobs are placed on the output medium by means of an algorithm in such a way that optimal utilization of the paper is ensured. In order to achieve better utilization of the paper, individual drawings may be rotated by 90 degrees. Furthermore, additional functions of the individual output device, e. g. the operation of cutters, are taken into account (creation of cutting marks).

The individual drawings in a possible optimization package are dealt with as single jobs until the time of output, i. e. they can be deleted or removed from the paper optimization at any time.

set collations

A paper optimization can also be performed with set collations. Only jobs in the GKSM and CGM format are optimized. If the same set collation also contains output jobs in other formats (e. g. TIFF), these are only output after the paper-optimized output jobs. Thus, of course the output order is no longer maintained. However, the drawings are still kept together.

..... *To be continued*

Paper Optimization, Continuation

.....
The following requirements have to be fulfilled for activating the paper optimization:

activating the paper optimization

- In the header of the job the item PLS_PAPER_OPT is set to Y.
- In the job header, 0 or 1 is specified for the priority PLS_PRIO.
- The job is available in the GKSM or CGM format.
- The OPTIMIZE keyword in the output device section in `plossys.cfg` is set to YES.
- The maximum of jobs waiting for optimization OPT_MAX_PLOTS, the upper limit for the number of jobs in the optimization package OPT_PLOTS_LIMIT, the total surface of the combined jobs OPT_MAX_SPACE and the maximum waiting time of a job to be optimized until the release OPT_MAX_TIME in the output device section in `plossys.cfg` have been assigned reasonable values.
- There is a configuration file `pLotter.cut` for the paper optimization.

.....
In order to perform the paper optimization, a configuration file is required for each output device. The configuration file has the name of the output device with the additional file extension `.cut`. It is stored in the `server\plotserv\plotter` directory. Such a file is only required for output devices which have been configured for paper optimization and/or cutting mark generation. Additionally, OPTIMIZE and CUTTER_TYPE have to be set correspondingly in `plossys.cfg`.

configuration file
- `plotter.cut`

The configuration file contains a number of device- and user-specific settings. It describes, for example, if a cutter is connected to the output device and the cutting options this cutter provides. The configuration file also contains the paper size that can be used for the optimization and the size of the lettering. Additionally, certain optimization parameters can be specified.

automatic/manual cutting

Especially when cutters are used, the results of the paper optimization with regard to the waste paper produced depends very much on the selection of the respective optimization parameters.



Tray Activation on Devices with Several Trays

purpose

The tray activation serves to print certain pages of a document on different paper types, e. g. the first page on stationery and the following pages on standard paper.

configuring the output devices

In order to use different paper types for the output of a document, the available tray types of the device have to be specified first. These have to be specified with `INTRAY n` in the device section of `plossys.cfg`.



example

Example of tray types:

```
[RICOH_AFICIO03045]
  ASK_PAPER Y
  ...
  INTRAY1SHEET "Stationery"
  INTRAY2SHEET "Standard paper ANSI A"
  INTRAY3SHEET "Paper ANSI B"
  INTRAY4SHEET "Transparent paper ANSI B"
  INTRAY5MANUAL "Manual tray"
  ...
```

In order that the specified tray types may be used the `ASK_PAPER` keyword has to be set to `Y`.

After this, the output device has to be restarted. In doing so, the correct paper types have to be assigned to the trays, for example, "special medium 1" if stationery is inserted in the first tray, and "paper" if standard paper is inserted in the second tray. For the manual tray, the paper type "manual" is default because in this tray any type of media is inserted if required. This presetting is unchangeable.

The short descriptions specified behind the tray types in `plossys.cfg` are arbitrary texts used by GEKKO.

..... *To be continued*


Tray Activation on Devices with Several Trays, Continuation

.....
Which side of a document is to be output on which paper type is specified by the header item `PLS_TRAY_n`, whereas *n* stands for the page number.

activation via header items

If, for example, the first page is to be printed on stationery and the following pages are to be output on standard paper, the tray with the stationery has to be set for the first page and the tray with the standard paper has to be set for the second page. This tray is used for all following pages, until another tray is specified for a page.

If, for example, the first three pages are to be output on colored paper, the following ten pages on standard paper, the next page on different colored paper and all following pages on standard paper again, the appropriate trays have to be specified for the pages 1, 4, 14 and 15.

 example

```
PLS_TRAY_1 == INTRAY1  
PLS_TRAY_4 == INTRAY2  
PLS_TRAY_14 == INTRAY4  
PLS_TRAY_15 == INTRAY2
```

Please note that clients potentially may restrict these options.

 **Caution**

.....

6.2 Setting the Borders

in this chapter

This chapter deals with the following topics:

| Topic | Page |
|--|------|
| Overview | 119 |
| General Proceeding | 120 |
| Determine the Borders | 121 |
| Determine the Orientation of the Logical Paper | 123 |
| Setting the Borders for a PCL Device | 124 |
| Setting the Borders for a PostScript Device | 126 |
| Example - Job on a PCL Device (DIN) | 127 |
| Example - Job after Setting the Values (PCL/DIN) | 128 |
| Example - Job after Setting the Borders (PCL/DIN) | 129 |
| Example - Job after Setting the Borders (PCL/MAXSCL) | 130 |

Overview

.....

PLOSSYS netdome creates spool files without white borders. By means of the settings `XXX_BORDER` in the output device configuration file, the border margins may be set for each paper size. `XXX` stands for PDF, RASTER, VECTOR or GXC Engine. For some output devices, e. g. postscript printers, an additional item `PS-Offset` has to be set because the origin is not within the paper area but on the edge of the paper. For easy determination of the margins that cannot be printed by an output device there are some test files and stamps to facilitate measurements.

.....

background
knowledge

For roll devices the border settings are reasonable only conditionally. Only the borders parallel to the direction of paper motion can be specified. The settings for the borders across the direction of paper motion will be ignored, since roll devices can use more paper in the direction of paper motion.



hint

In some exceptional cases the border settings may be helpful also for roll devices. For example the printer Ratio Polyprint 6000 is not able to imprint a border of 3 mm at the cutting edge. To ensure the correct scaling of a drawing in this case, you have to use sheet specifications for all DIN formats. For over-length formats the roll formats have to be used.

.....

General Proceeding

.....

In this section there is only an outline of the proceedings.



related topics

The next section will give a detailed description of all necessary actions.

→ *Determine the Borders*, page 121

.....

step 1

In `tools/testfiles/ps` the following files are available:

- `a3-border.ps` and
- `a4-border.ps`.

These files contain rulers and millimeter scales that facilitate the measurement of margins. *Example - Job on a PCL Device (DIN)*, page 127 displays one of these test files. These are sent to a PCL XL device with `mtfilter` after conversion to PCL by means of a converter gate. The output device clips the output job by itself, *Example - Job after Setting the Values (PCL/DIN)*, page 128. Then, the four rulers may be used to read the printable area, *Example - Job after Setting the Borders (PCL/DIN)*, page 129. That way you get the hardware margins of a device and a specific output job size.

PostScript

On PostScript devices there is other information printed in addition to the four margin values:

- Output job size in mm
- Paper size in mm
- Name of the PostScript device
- Four margins in m, that have to be specified in the output device configuration file as `border`.



Caution

This additional information is lost, if the output is not done via `mtfilter` but via the output job drivers of PLOSSYS `netdome`.

.....

step 2

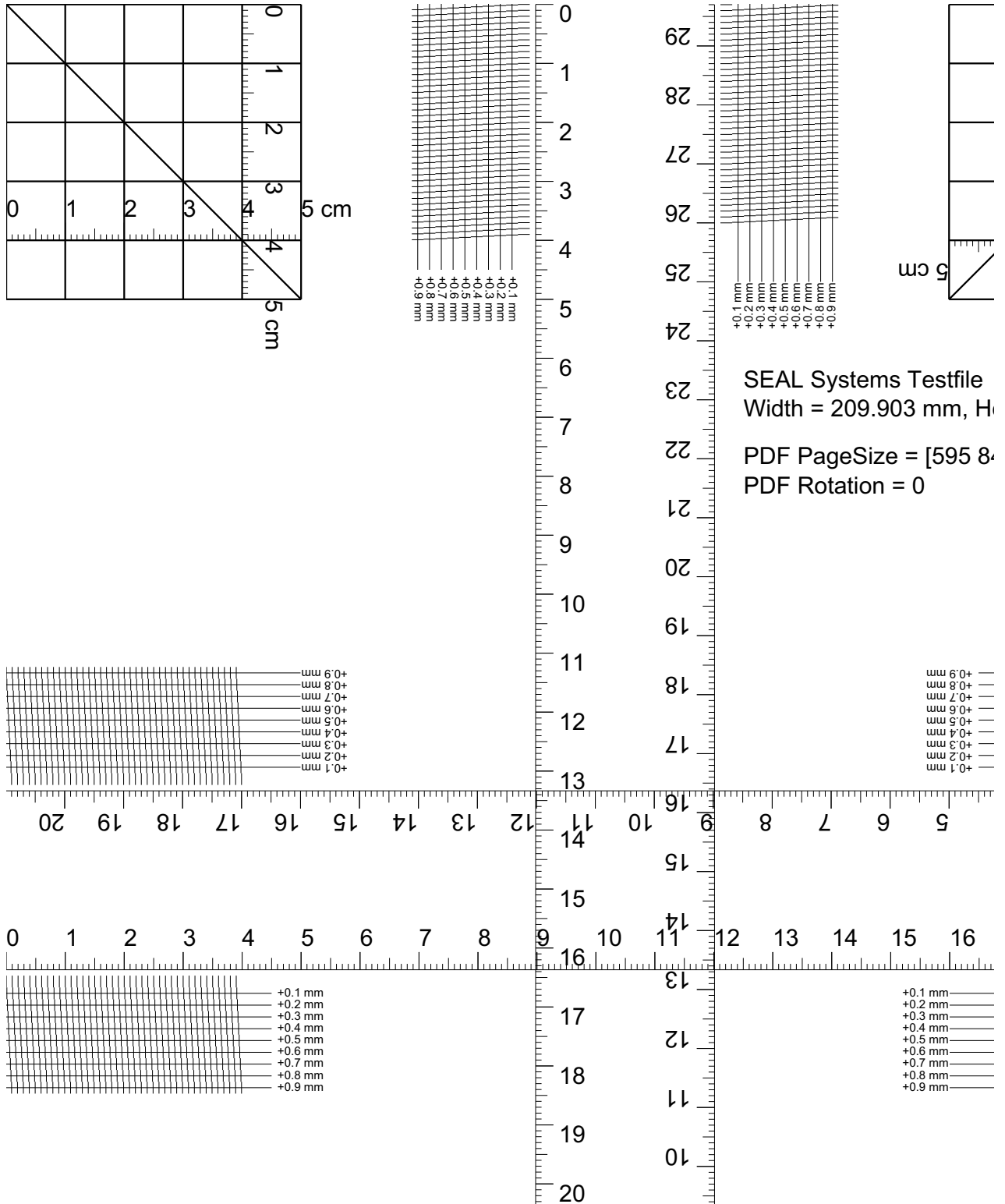
The determined values are then entered into the output device configuration file as `XXX_BORDER`, depending on the orientation of the logical paper and on the size of the paper. With PostScript devices you may use simply the printed values plus a correction in the range 0.5,...1.0 mm, with other printers use the readings of the rulers to determine the margins.

.....

Determine the Borders

The following figure demonstrates the process to read the borders with the help of the rulers.

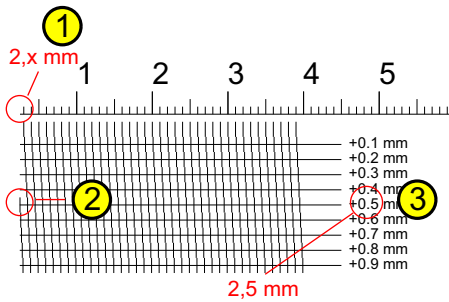
Test file to determine borders:



To be continued


Determine the Borders, Continuation

Output of the test data from a PostScript device:



instructions

| Step | Description |
|------|--|
| 1 | On the ruler one can see the third millimeter line. The border is 3 mm at most, probably a little less (2.x mm). |
| 2 | Now look at the auxiliary lines below the ruler. Search for the first visible vertical line (marked in red). Follow the auxiliary line and read the number on the right side ("+0.5 mm" in this case). That way, you can determine tenths of a millimeter. |
| 3 | Now, you have the border margin: $2 + 0.5 = 2.5$ mm. You may add a correction of 0.1 to 0.2 mm. |

 related topics

→ *Determine the Orientation of the Logical Paper*, page 123

Determine the Orientation of the Logical Paper

.....
To determine the orientation of the logical paper there are four stamp files with the respective texts Left, Right, Top and Bottom. The files are located in the server\plotserv\plotter directory.

background
knowledge

.....
Because stamps are not rotated, they always point to the border of the logical paper. E. g. the stamp reading "left" always indicates the left side. This helps to find the margins that need adjustment.

border of the
logical paper

.....
To determine the margins, the test files a3-border.ps or a4-border.ps are printed together with the stamp files.


determination of
the borders

.....
Because the proceedings between PCL devices and PostScript devices are different, both are listed separately.

 **Caution**

→ *Setting the Borders for a PCL Device*, page 124




→ *Setting the Borders for a PostScript Device*, page 126

 related top-
ics

Setting the Borders for a PCL Device

instructions, part
1



This is how you configure the borders for PCL devices:

| Step | Action |
|------|--|
| 1 | Save the stamp configuration file <i>pLotter.stp</i> . |
| 2 | Copy the stamp configuration file <i>borders.stp</i> to <i>pLotter.stp</i> . |
| 3 | Set all border margins in the output device configuration file to 0. |
| 4 | Output the test file with DIN scale, <i>Example - Job on a PCL Device (DIN)</i> , page 127.  hint - visible rulers: Two out of four rulers should be visible in full. The remaining two are probably cut off. |
| 5 | On the two complete borders the margins to the edge are measured with a real ruler. |
| 6 | These two values are written on the proper place <i>XXX_BORDER</i> (according to the stamp text) in the output device configuration file. The two other values remain at 0. |
| 7 | Stop the output device with an emergency stop. |
| 8 | Output the output job with DIN scale.  hint - cut borders: All of the four borders should be cut off, <i>Example - Job after Setting the Values (PCL/DIN)</i> , page 128. |
| 9 | The remaining values of the other two borders are read at the millimeter scale. |
| 10 | These two values are written at <i>XXX_BORDER</i> into the configuration file, too.  hint - complete borders: At this point, all four values are specified. |

..... To be continued

Setting the Borders for a PCL Device, Continuation




instructions, part
2

| | |
|----|--|
| 11 | Stop the output device with an emergency stop. |
| 12 | For verification, output the output job again with DIN scale.  hint - visible stamps: Now all of the four stamps should be visible, <i>Example - Job after Setting the Borders (PCL/DIN)</i> , page 129. |
| 13 | For verification, output the output job again with MAXSCL scaling.  hint - everything visible: Now the complete output job should be visible, without any clipping, see <i>Example - Job after Setting the Borders (PCL/MAXSCL)</i> , page 130. |

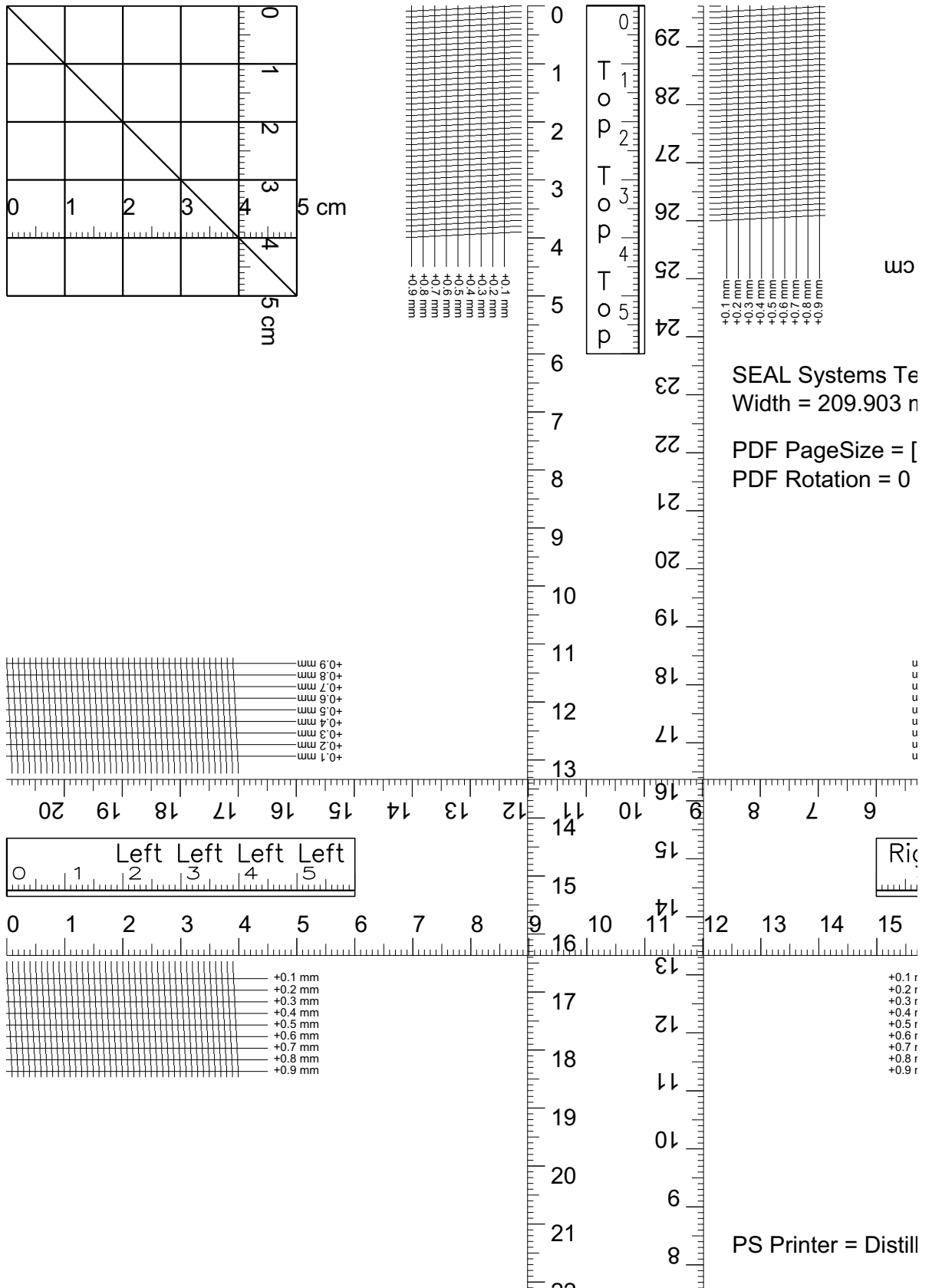
Setting the Borders for a PostScript Device

instructions

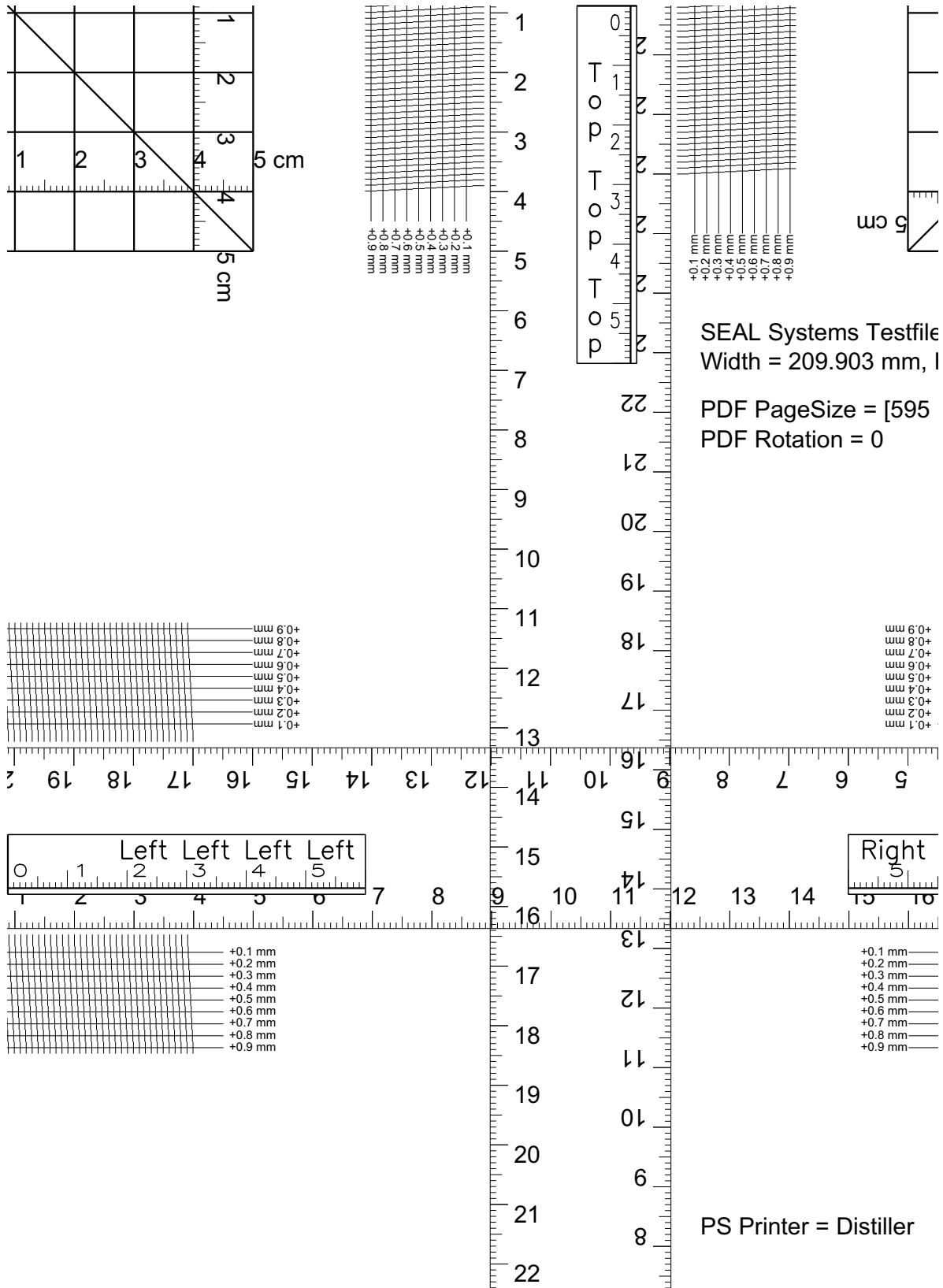
This is how you configure the borders for PostScript devices:

| Step | Action |
|------|--|
| 1 | Save the stamp configuration file <i>pLotter.stp</i> . |
| 2 | Copy the stamp configuration file <i>borders.stp</i> to <i>pLotter.stp</i> . |
| 3 | Set all border margins in the output device configuration file to 0. |
| 4 | Output the test file with DIN scale.  hint - borders already cut: The PostScript file does an automatic clipping, therefore all four borders are cut off. |
| 5 | Read the <i>XXX_BORDER</i> values at each of the four borders with the help of the cut off millimeter scale. The correct orientation can be determined with the stamp texts. |
| 6 | Write the four values into the output device configuration file. |
| 7 | Stop the output device with an emergency stop. |
| 8 | For verification print the output job again with DIN scale.  hint - visible stamps: Now all of the four stamps should be visible. |
| 9 | Output the job with <i>MAXSCL</i> .  hint - everything visible: Now the complete output job should be visible, without any clipping. |

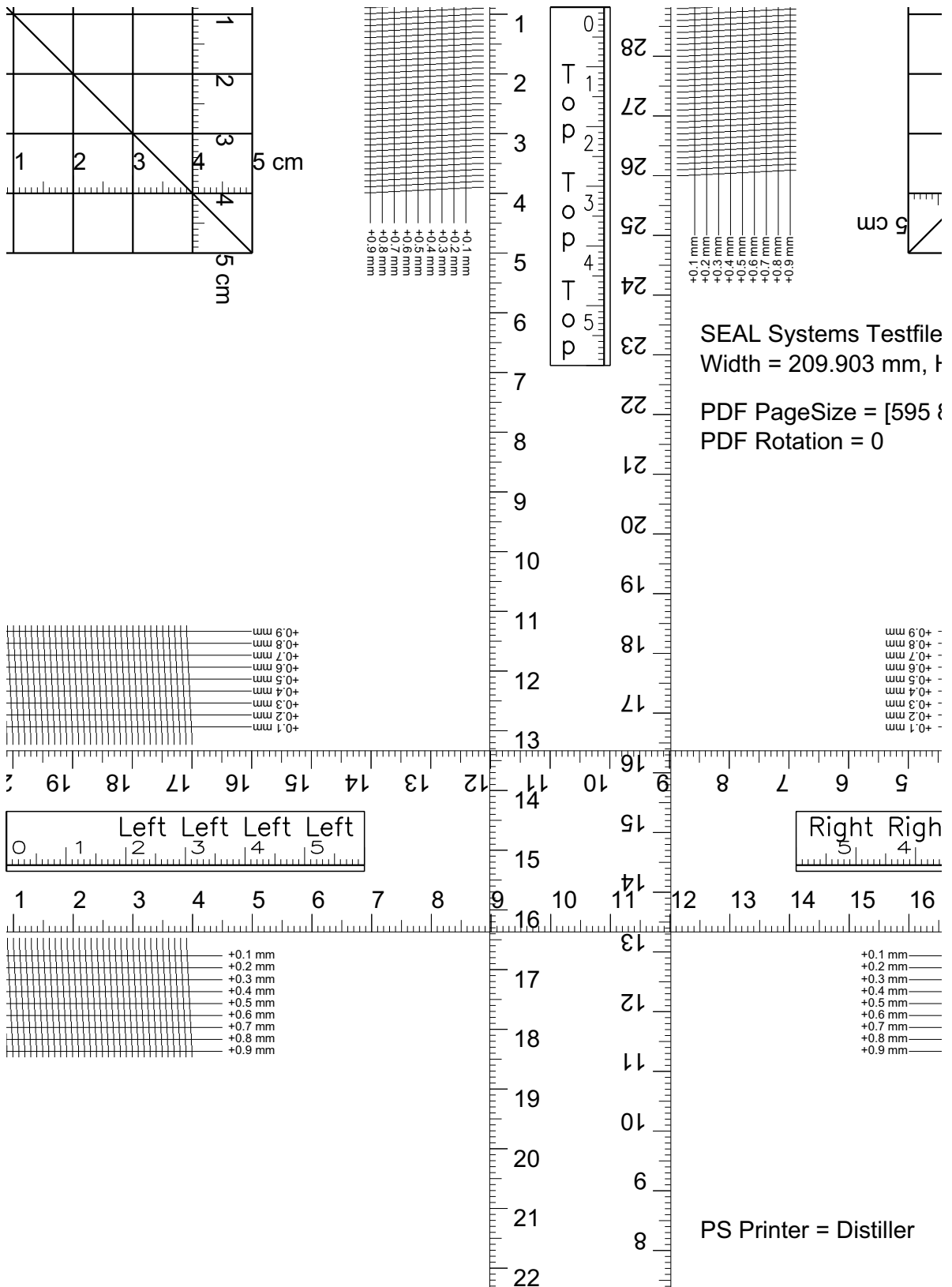
Example - Job on a PCL Device (DIN)



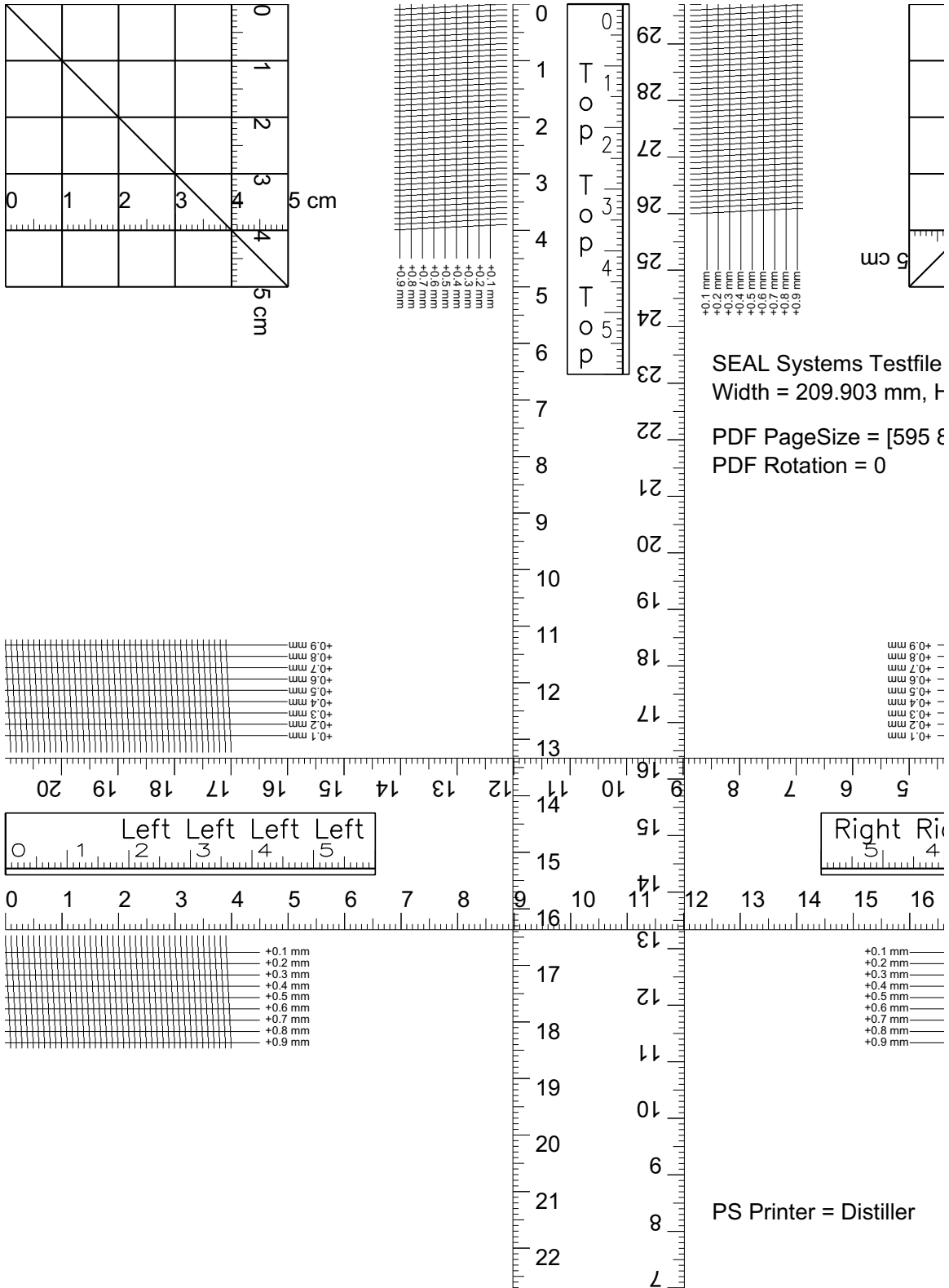
Example - Job after Setting the Values (PCL/DIN)



Example - Job after Setting the Borders (PCL/DIN)



Example - Job after Setting the Borders (PCL/ MAXSCL)



6.3 Configuration Possibilities of Output Devices

.....
This chapter deals with the following topics:

in this chapter

| Topic | Page |
|-----------------------------|-------------|
| Activating Duplex Printing | 132 |
| Setting the Folding Program | 133 |
| Calibration | 134 |
| Setting the Output Quality | 138 |

.....


Activating Duplex Printing

requirement

The output device supports duplex printing.

instructions

This is how you activate duplex printing:

| Step | Action |
|------|--|
| 1 | In the output device section in <code>plossys.cfg</code> , specify: <code>DUPLEX_GENERATE ALLOWED</code> |
| 2 | Specify the header item: <code>PLS_DUPLEX == LONG_SIDE</code> (long side as binding edge) <code>PLS_DUPLEX == SHORT_SIDE</code> (short side as binding edge)  Caution - <code>DUPLEX_GENERATE</code> : If <code>DUPLEX_GENRATE</code> in <code>plossys.cfg</code> is set to <code>NEVER</code> , duplex printing is impossible. If the keyword is set to <code>EVER</code> , each output job is output with duplex-printing regardless the setting in the header item. |

Setting the Folding Program

.....
This is how you configure a folding program:

instructions

| Step | Action |
|------|--|
| 1 | Activate folding: PLS_FOLD==Y |
| 2 | Set the folding program: PLS_FOLD_TYPE==FOLDPROGRAM |

.....
For arrangements to configure your printer with an attached folding unit contact your Technical Project Manager at SEAL Systems.



Calibration

| | |
|-------------|--|
| purpose | <p>.....</p> <p>The calibration is used to adjust the precision of output devices, which can arise from shrinkage of the medium caused by temperature, humidity etc. The scaling which is necessary for this compensation, can be set differently for the x and y coordinates.</p> <p>For each output device, a separate calibration file can be used. In this file, the calibration factors for the machine direction and the width of the output devices are configured for every paper size/medium combination.</p> |
| requirement | <p>.....</p> <p>In order to use the calibration, the parameter DO_CALIBRATION has to be set to Y in the output device section of <code>plossys.cfg</code> and a calibration file has to exist.</p> |
| location | <p>.....</p> <p>The calibration files are located in the <code>server\plotserv\plotter</code> directory.</p> <p>The name of the calibration file is identical with the name of the output device or related to the CONFIG keyword in the output device section of <code>plossys.cfg</code> with the additional extension <code>.cal</code>. The syntax of the calibration file accords to the common PLOSSYS configuration file ini format.</p> <p>..... <i>To be continued</i></p> |

Calibration, Continuation

.....
There are two calibration factors for each combination of the paper size, e. g. DIN A0 or DIN A2, and the medium, e. g. paper or foil. The first factor specifies the calibration for the paper path, the second specifies the calibration perpendicular to this. Factors greater than 1.0 stretch the drawing, factors less than 1.0 compress it. The factor 1.0 has no effect. This is the default if no other item is configured for one paper size/medium combination. The factors are floats with six positions after the decimal point. The range should be between 0.5 and 1.5.

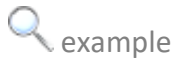
configuration
file's format

There is a separate section for every paper size. The section name has to correspond to the value of the CONS_NAME item for this format definition, which is specified in the [LGC\PAPER_SIZES\...] section in the output device configuration file. The section of the paper size contains one item for every medium. The medium names are fixed and can not be extended. The following output media are available:

- PAPIER for paper
- TRANSPARENT
- FILM
- LEICHTPAP for light-weight paper
- SPEZIAL for special medium
- DEFAULT
- DECKBLATT for cover sheet
- SPEZIALPAPIER 1 to SPEZIALPAPIER 12

..... *To be continued*

Calibration, Continuation



example

Example for the calibration factors:

In the output configuration file, the following items are set:

```
[LGC\PAPER_SIZES\ROLLA3]
CONS_NAME = "Paper A3"
[LGC\PAPER_SIZES\ROLLA1]
CONS_NAME = "Paper A1"
```

In the example above, the calibration file should look like this:

```
[Paper A3]
PAPIER      1.000435  1.000002
TRANSPARENT 0.999989  0.999978
FOLIE       1.000000  1.000000
LEICHTPAP   1.000000  1.000000
SPEZIAL     1.000000  1.000000
DEFAULT     1.000000  1.000000
DECKBLATT   1.000000  1.000000
[Paper A1]
PAPIER      1.003784  0.990439
TRANSPARENT 0.999989  0.988978
FOLIE       1.000045  1.000056
LEICHTPAP   1.000000  1.000000
SPEZIAL     1.000000  1.000000
DEFAULT     1.000000  1.000000
DECKBLATT   1.000000  1.000000
```



hint

After changing the calibration file, an emergency stop of the output device via the console of PLOSSYS netdome is sufficient. PLOSSYS netdome does not have to be restarted.

..... *To be continued*

Calibration, Continuation

.....
The scale type MAXSCL must not be used in connection with the calibration!



Reason:

If an A0 drawing is to be output with scale type MAXSCL and no calibration is active, the driver creates a spool file 1:1 and the scaling factor 1.0 is printed as flagpage. During the output, the paper could shrink due to high temperature or other environmental conditions. So the paper could have a size of e. g. 083.00 cm x 117.00 cm instead of 084.10 cm x 118.90 cm after output. To compensate this shrinking, the drawing can be calibrated in x and y coordinates a little bit larger than before, so that a 1:1 drawing results after the shrinkage.

What happens with MAXSCL and calibration?


The calibration enlarges the drawing, e. g. to a size of 085.00 cm x 120.00 cm. Therefore, the drawing does not fit into the printable area of the output device. If it were output nevertheless, some kind of output devices would raise an error. For this reason, the drawing is scaled down to the printable area if MAXSCL is configured as scale type. For this scaling, the same factor is used for the x and y coordinates. The factor is also printed on the flagpage.


Because this behavior is undesirable, the scale type DINSCL, or at best, NOSCAL should be used. In both cases, the borders of the drawing enlarged by the calibration are clipped if the drawing becomes larger than the printable area of the output device. This results in a 1:1 output after shrinking with the scale factor 1.000 printed as flagpage. DINSCL follows this rule only if the output job size after calibration is within the tolerance limits. Otherwise, DINSCL has the same negative effect as MAXSCL.

Setting the Output Quality

instructions

This is how you set the output quality:

| Step | Action |
|------|--|
| 1 | <p>Specify the correspondent value in the header item:</p> <pre>PLS_PRINT_QUALITY == LOW (low quality) PLS_PRINT_QUALITY == NORMAL (normal quality) PLS_PRINT_QUALITY == HIGH (high quality)</pre> <p> hint - keywords in the system section: If the keywords are set in the system section of <code>plossys.cfg</code>, they apply to all configured output devices.</p> |
| 2 | <p>PLOSSYS netdome checks the following keywords in <code>plossys.cfg</code> and outputs the jobs correspondingly:</p> <p>vector output:</p> <pre>PLS_PRINT_QUALITY_LOW PLS_PRINT_QUALITY_NORMAL PLS_PRINT_QUALITY_HIGH</pre> <p>raster output:</p> <pre>DOTS_PER_INCH_LOW DOTS_PER_INCH_NORMAL DOTS_PER_INCH_HIGH</pre> |

 example

The following example shows the entries of the keywords for specifying the print quality for a Lexmark Optra printer in `plossys.cfg`:

```
DOTS_PER_INCH_LOW          300 (dots/inch)
DOTS_PER_INCH_NORMAL 600 (dots/inch)
DOTS_PER_INCH_HIGH 1200 (dots/inch)
```

6.4 Configuration as Pool Device

.....

This chapter deals with the following topics:

in this chapter

| Topic | Page |
|--|-------------|
| Requirements | 140 |
| functionality | 141 |
| Configuration | 143 |
| Selection Logic - Procedure for Single Jobs | 148 |
| Selection Logic - Procedure for Set Collations | 153 |
| Missing Sheet When Splitting a Set Collation | 155 |

.....

Requirements

option pool de-
vice

.....
In order to use a pool device, a license for the PLOSSYS netdome option Pool Device is required.
.....

 **Caution**

.....
The activation of this PLOSSYS netdome option is not included in delivery with PLOSSYS netdome, you have to purchased this as a separate option.
.....

functionality

.....
 Several output devices can be combined to form a pool device. The name of a pool device indicates a separate output device in the console of PLOSSYS netdome. In the following section it is referred to as pool device. When the user selects a pool device for the output, PLOSSYS netdome sends this output job to a "real" specific output device that matches as exactly as possible. The log files tell you at which output device the job actually ended up to be printed.

pool device and individual devices

.....
 A pool device behaves like a normal output queue. It can be started and stopped via the interface. The only difference between a pool device and an individual output device is that the output job is not output directly. In the case of a pool device, PLOSSYS netdome selects the individual output device matching best on the base of various criteria.

The following static and dynamic properties of the output device are used as selection criteria:

Selection Criteria

| Selection Criteria | Properties of the Output Device |
|-------------------------------------|---------------------------------|
| raster capability | static |
| color capability | static |
| folding device connection | static |
| folding device bypassing capability | static |
| maximum folding size | static |
| optional medium | static |
| medium | dynamic |
| maximum output job size | dynamic |
| minimum output job size | dynamic |
| output device load | dynamic |

..... *To be continued*

Functionality, Continuation

exclusion criteria
and important
criteria

.....
The raster capability is a special selection criterion. If the raster capability is not ensured, a raster job must not be output under any circumstances. In the following sections this criterion is referred to as exclusion criterion. The other criteria are assigned a priority level for each pool device. This priority level is taken into account, when an individual output device is selected. These criteria are referred to as important criteria.
.....

 **Caution**

.....
On the user interface, both the individual output devices and the pool devices are displayed. There is no visible distinction between a pool device and an individual output device. Therefore, it is advisable to be intuitive.
.....

load balancing

.....
A load balancing in PLOSSYS netdome can be achieved by using a pool device. The prerequisite is a pool printer with at least two identical output devices.
.....

Configuration

As a pool device externally behaves like a normal specific output device, the configuration of the output device in `plossys.cfg` is similar to that of a normal specific output device. Like any other output device, a pool device is entered in the list of output devices to be started. It has a separate section which contains, apart from the standard entries, special entries for the pool definition. The only thing that identifies it as a pool output device is the setting of the `POOL_FOR_PLOTTER` keyword. If this keyword is not present, or if no value has been assigned to it, the output device is an individual output device. An individual output device may be assigned to several pools.

`POOL_FOR_PLOTTER`


The default of `POOL_FOR_PLOTTER` is "".

default

In the case of a pool output device, `plodummy` has to be specified as `PLOTTER_DRIVER`.

 **Caution**

There are two pools, one for the western wing and one for the eastern wing. All the output devices with the ending `_1` as well as the `hp650c` have been assigned to the western pool, and all the output devices with the ending `_2` have been assigned to the eastern pool.

 example

```
[SYSTEM]
  PLOTTER_SECTIONS      pool_west pool_east \
                        xes8830_1 xes8830_2\
                        laserjet_1 laserjet_2\
                        hp650c
[pool_west]
POOL_FOR_PLOTTER xes8830_1 laserjet_1 hp650c
PLOTTER_DRIVER plodummy
[pool_east]
POOL_FOR_PLOTTER xes8830_2 laserjet_2
PLOTTER_DRIVER plodummy
```

..... *To be continued*

Configuration, Continuation

selection of the single printer - keywords

.....
The keywords described below are available for specifying the static and dynamic output device properties used for selecting a device from a pool device. These keywords are entered in the specific output device sections in `plossys.cfg`.

- `COLOR_TYPE`, page 295
- `FOLDER_BYPASS`, page 318
- `FOLDER_MAX_SIZE`, page 318
- `FOLDER_TYPE`, page 318
- `GRAPHIC_TYPE`, page 328
- `PAPER_OPTIONAL`, page 347
- `PLOT_MAX_SIZE`, page 355
- `PLOT_MIN_SIZE`, page 356
- `PLOT_SPEED`, page 356

header items

.....
Certain header items are used for checking the demanded output device properties. The following table lists the corresponding items. The column demanded match is read as follows: The header item represents the left side of `==` and the value of the respective output device property represents the right side. The given header item has to correspond to the respective value, so that this output device property is assured.

| Property | Header Item | Demanded Match |
|--------------|--------------|--|
| COLOR_TYPE | PLS_PLOTPEN | KU == COLOR TU == BW With BE, the color capability is not used as criterion. With DE, the check is continued with the pen type that has been specified with PEN_TYPE in <code>plossys.cfg</code> . Default for PEN_TYPE is TU. |
| GRAPHIC_TYPE | PLS_PLOTTYPE | TIFF == RASTER Rest == VECTOR PDF == PDF |

..... *To be continued*

Configuration, Continuation

| Property | Header Item | Demanded Match |
|-----------------|--------------------------------|---|
| FOLDER_BYPASS | PLS_FOLD | Y = any N == Y If, for example, FOLDER_BYPASS is an exclusion criterion and has been set to N, this output device is not selected for output jobs which are not to be folded, or which are to be folded but exceed FOLDER_MAX_SIZE. |
| FOLDER_MAX_SIZE | PLS_PLOTSIZE user scaling * | The calculated size of the output job must not be larger than this value. In this connection, the tolerance limits that have been entered in the configuration file of the output device are taken into account as well. |
| FOLDER_TYPE | PLS_FOLD | Y == "xyz" N == any |
| PLOT_MAX_SIZE | PLS_PLOTSIZE user scaling * | The calculated size of the output job must not be larger than one of the currently loaded paper sizes specified in the configuration file of the output device. In this connection, the tolerance specified in the configuration file of the output device is taken into account as well. |
| MEDIUM | PLS_PLOTPAPER | Matching one of the media loaded. With BE, the media match is not used as criterion. With DE, the check is continued with the paper type that has been specified with PAPER_TYPE in plossys.cfg. Default for PAPER_TYPE is PA. |
| PAPER_OPTIONAL | PLS_PLOTPAPER | If several output devices get the same high rating, the output devices for which the matching medium has been specified as optional medium are given priority. |
| PLOT_MIN_SIZE | PLS_PLOTSIZE user scaling * | The calculated size of the output job has to be at least as large as PLOT_MIN_SIZE. |

..... *To be continued*

Configuration, Continuation

priority of the characteristics

.....
The pool device sections contain a number of keywords for the priorities of the specific attributes:


- *POOL_PRIO_BW_TYPE*, page 367
- *POOL_PRIO_COLOR_TYPE*, page 368
- *POOL_PRIO_FOLDER_MAX_SIZE*, page 369
- *POOL_PRIO_FOLDER_BYPASS*, page 368
- *POOL_PRIO_MEDIUM*, page 370
- *POOL_PRIO_PLOT_MAX_SIZE*, page 371
- *POOL_PRIO_PLOT_MIN_SIZE*, page 371

priorities

.....
As priorities for important criteria, any positive numbers can be set. The higher the number, the more important it is that the respective property is fulfilled. Thus, a priority of 0 means that this property is not important. The default for the individual properties is 1.

 hint - raster capability

.....
In order to specify further exclusion criteria apart from the raster capability, -1 has to be assigned as priority.

 hint - ambiguity

.....
If ambiguities are to be avoided, the priorities has to be assigned in such a way that each of them is different and that the sum of several priorities does not result in any other priority.

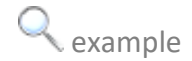
In the case of ambiguities, the optional medium and the output device load are the decisive factors.

If the demanded medium is not available in the output devices with the highest value, the output device with which the drawing has to be scaled less is taken. As a prerequisite the *POOL_PRIO_PLOT_MAX_SIZE* keyword has to be set.

..... *To be continued*

Configuration, Continuation

.....
Example of the item in plossys.cfg:



```
[pool_west]
POOL_PRIO_COLOR_TYPE      4
POOL_PRIO_FOLDER_MAX_SIZE 8
POOL_PRIO_FOLDER_BYPASS  -1
POOL_PRIO_MEDIUM         1
POOL_PRIO_PLOT_MAX_SIZE   2
POOL_PRIO_PLOT_MIN_SIZE   17
```

```
[xes8830_1]
COLOR_TYPE      COLOR
GRAPHIC_TYPE    RASTER
FOLDER_TYPE     DIGIFOLD
FOLDER_BYPASS  NO
FOLDER_MAX_SIZE 2.5
PLOT_MIN_SIZE  0.297 0.420
```

```
[laserjet_2]
COLOR_TYPE      BW
GRAPHIC_TYPE    VECTOR
FOLDER_TYPE     NONE
PLOT_MIN_SIZE  0.420 0.594
```

.....

Selection Logic - Procedure for Single Jobs

considering ex-
clusion criteria

When PLOSSYS netdome receives a job for a pool device, it first checks the list of POOL_FOR_PLOTTER and, in the case of a raster job, removes the output devices which are not capable of producing raster output jobs. With a PDF job the GRAPHIC_TYPE is ignored. In this case, the item PDF_ALLOWED is the decisive factor. Unless this item exist or if it has been set to N, the output device is removed from the list.

If no output device is left, the job is entered in the list of erroneous jobs. In the case of a vector job, it is not necessary to reduce the list in such a way as all output devices are capable of producing vector output jobs.

Further exclusion criteria specified with priority -1 are checked first. As soon as a criterion does not met, the output device is removed from the list.

considering im-
portant criteria

Subsequently PLOSSYS netdome selects - based on the priorities set - the individual output devices with the highest rating from the list, which may have been reduced. It checks the list of output device one after the other considering the following properties:

- Is the output device capable of producing color output jobs?
- Is the output job size smaller than or equal to the maximum folding size?
- Can the folding device be bypassed, if the output job is not be folded?
- Is the output job size smaller than or equal to the maximum paper size after the user scaling, when taking into account the tolerance limits from the configuration file of the output device?
- Is the output job size at least as large as the demanded minimum size after the user scaling?

If the output device has this property a 1 is set. If the property cannot be ascertained, a 0 is assigned. The medium as well as the minimum and the maximum output job size are always taken into account; the other criteria are only taken into account, if the output job requires this.



hint

In case of a multi-page file, only the first page with its sizes and settings will be evaluated to check the required criterion for the selection of the optimal output device.

..... *To be continued*

Selection Logic - Procedure for Single Jobs, Continuation

.....
Then, the values of the relevant properties are multiplied by the priority levels of the pool device, so that a certain number of points (rating) can be assigned to each output device. If several output devices get the same rating, PLOSSYS netdome checks first on which devices the demanded medium is available as an option. If there are s that obtain a higher rating because of this factor, only these are taken into account for selection. If there are still several output devices with the same rating, the output device load is used as another decisive criterion. The output device with the lowest value resulting from the following equation

$$\textit{number_of_jobs_in_queue} / \textit{output_speed}$$


is selected. Generally; output devices without jobs queued are preferred to output devices with jobs queued, where the speed is not taken into account. If more output devices without jobs queued are available, the output device with the higher speed is taken.

The effect of this procedure is shown in two examples. It is assumed that all the output devices are raster capable, and that the folding devices can be bypassed. Additionally, no optional media list and no demanded minimum output job size has been entered for any output device.

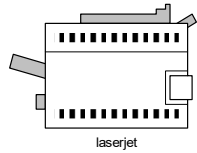
..... *To be continued*

selection of the
output device

Selection Logic - Procedure for Single Jobs, Continuation

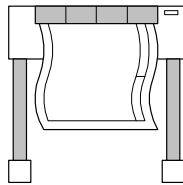
 example -
properties of
output devices

First the output devices are presented with their properties:

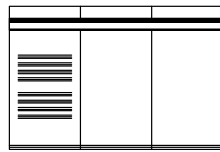


laserjet

Color, no folding device, SP, max.
A3

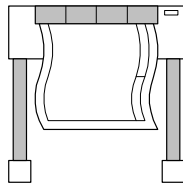


xes8830_F



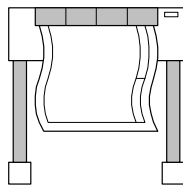
Falter MAX 2.5

Black-and-white, max. folding
length 2.5 m, PA, max. A0

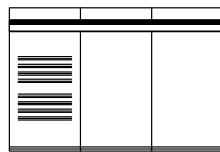


xes8830_N

Color, no folding device, SP, max.
A0



xyz



Falter MAX 1.0


Color, max. folding length 1.0 m,
PA, max. A3

..... *To be continued*

Selection Logic - Procedure for Single Jobs, Continuation

Now the rating is shown with examples of output jobs on the base of different priority settings. The numbers that have a circle identify the selected output device. If a column contains several numbers with a circle, the load is the decisive factor, as there are no specifications for optional media.

Example: Colored output job A0 on SP which is to be folded.

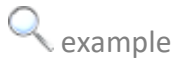
 example - awarding of points for priorities of output jobs

| | Colored? | Max. folded size.? | Folding device bypassing? | Medium ? | Max. size? | Min. size? |
|-----------|----------|--------------------|---------------------------|----------|------------|------------|
| laserjet | 1 | 0 | 1 | 1 | 0 | 1 |
| xes8830_F | 0 | 1 | 1 | 0 | 1 | 1 |
| xes8830_n | 1 | 0 | 1 | 1 | 1 | 1 |
| xyz | 1 | 0 | 1 | 0 | 0 | 1 |

| | It is especially important that the output job is output in color. | It is especially important that the output job is folded. | It is especially important that special paper is used. | It is especially important that the output job is not scaled and output in color. |
|---------------------------|--|---|--|---|
| POOL_PRIO_COLOR_TYPE | 4 | 0 | 2 | 4 |
| POOL_PRIO_FOLDER_MAX_SIZE | 1 | 4 | 0 | 2 |
| POOL_PRIO_FOLDER_BYPASS | -1 | -1 | -1 | -1 |
| POOL_PRIO_MEDIUM | 0 | 2 | 4 | 0 |
| POOL_PRIO_PLOT_MAX_SIZE | 2 | 1 | 1 | 4 |
| POOL_PRIO_PLOT_MIN_SIZE | 0 | 0 | 0 | 0 |
| laserjet | 4 | 2 | 4 | 4 |
| xes8830_F | 3 | 5 | 1 | 6 |
| xes8830_n | 6 | 3 | 7 | 8 |
| xyz | 4 | 0 | 2 | 4 |

..... To be continued

Selection Logic - Procedure for Single Jobs, Continuation



Example: Colored output job A4 on SP which is to be folded.

| | Colored? | Max. folded size.? | Folding device bypassing? | Medium ? | Max. size? | Min. size? |
|-----------|----------|--------------------|---------------------------|----------|------------|------------|
| laserjet | 1 | 0 | 1 | 1 | 1 | 1 |
| xes8830_F | 0 | 1 | 1 | 0 | 1 | 1 |
| xes8830_n | 1 | 0 | 1 | 1 | 1 | 1 |
| xyz | 1 | 1 | 1 | 0 | 1 | 1 |

| | It is especially important that the output job is output in color. | It is especially important that the output job is folded. | It is especially important that special paper is used. | It is especially important that the output job is not scaled and output in color. |
|--|--|---|--|---|
| POOL_PRIO_COLOR_TYPE POOL_PRIO_FOLDER_MAX_SIZE POOL_PRIO_FOLDER_BYPASS POOL_PRIO_MEDIUM POOL_PRIO_PLOT_MAX_SIZE POOL_PRIO_PLOT_MIN_SIZE | 4 1 -1 0 2 0 | 0 4 -1 2 1 0 | 2 0 -1 4 1 0 | 4 2 -1 0 4 0 |
| laserjet | 6 | 3 | 7 | 8 |
| xes8830_F | 3 | 5 | 1 | 6 |
| xes8830_n | 6 | 3 | 7 | 8 |
| xyz | 7 | 5 | 3 | 10 |

Selection Logic - Procedure for Set Collations

.....
When a set collation is to be output on a pool device, two procedures are possible in principle:

set collations and
pool devices

- A set collation is always output on one output device. The individual output device which gets the highest rating with the sum of all set members is selected.
- The set collation is split up between different output devices.

The `POOL_SET_SEPARATE` keyword in the output device section of `plossys.cfg` specifies whether a set collation is held together or not. Default is `NO`, which means that the set collation is held together and output on one output device.

.....
A set collation is always output on one output device. The device that gets the highest rating averaged over all the set members is selected.

output on one
output device

First, the exclusion criteria are evaluated for all the set members, and the output devices which are not suitable are removed from the list of `POOL_FOR_PLOTTER`. Then, the remaining output devices are evaluated for each set member. The specific results for the output devices are summed up over all the set members. Finally, the output device with the highest total rating is selected.

action

..... *To be continued*

Selection Logic - Procedure for Set Collations, Continuation

output on different output devices

As a possible scenario, a pool output device is possible which combines an A0, an A2 and an A3 output device, thus simulating a 3-roll device. If `POOL_SET_SEPARATE` is set to YES, the set members are split up to the three output devices depending on their size and output as partial sets. The job is output in partial sets, so that the desired order is kept at least within these parts. The maximum number of partial sets that are created is equal to the number of individual output devices forming part of the pool device. The original set name is used for naming the partial sets, with the last places numbered consecutively.

action

First, the exclusion criteria are evaluated for all the set members, and the output devices which are not suitable are removed from the list `POOL_FOR_PLOTTER`. Then, the remaining output devices are evaluated for each set member. For each individual output device, a list is created containing all the members for which this output device has got the best rating. After all set members have been evaluated, the original set collation is deleted, and a new partial set is created for each individual output device selected. With this operation, the set parameters such as deletion type, number of set copies, etc. are taken over from the original set collation to all the partial sets.

The original internal PLOSSYS netdome numbers of the set members are kept. Only, new set headers with new internal PLOSSYS netdome numbers are generated for all the partial sets. Thus, in PAD, an output job tracking can be performed at least for the members via their unique ID, although the original set no longer exists in PLOSSYS netdome.

Missing Sheet When Splitting a Set Collation

.....
A set collation consisting of a cover sheet and trailer sheet, many small sized text pages and some interspersed large sized graphics pages are sent to a pool device. The large graphics pages are assigned to a roll output device, the remainder of the set collation is output on a desktop printer.

motivating scenario

To facilitate insertion of the graphics pages in their appropriate place, a missing sheet replaces the redirected pages at their location in the original set collation. It is a good idea to use colored plain paper as missing sheet. The colored sheets can be reused and they make excellent indicators where to reinsert the redirected pages.

If several adjacent graphics pages are redirected to a different output device, individual missing sheets may be combined to a collective missing sheet.

.....
If redirected set members of a set collation are to effect missing sheets, it is necessary to set in the output device section in `plossys.cfg`.

creating missing sheets

```
POOL_GENERATE_SPLITTINGOFF Y/N
```

to Y.

.....
Furthermore, specifying a output device for output of the original set collation with missing sheets replacing the redirected set members is required. This output device is called the primary output device. This has to be specified in the output device section of the pool device in `plossys.cfg` by

set the primary output device

```
POOL_PLT_FOR_SPLITTINGOFF ""
```

to the name of this primary output device. In our motivating scenario this is the name of the small printer where the bulk of the set collation is to be printed.

If this specifies an output device that does not receive any of the pages of a split set collation, this device is ignored and the missing sheets are sent to the output device that receives the largest number of members of this set. If this does not select a particular printer, the program arbitrarily selects one of them.

.....
To select a paper bin for the missing sheets, use

medium for missing sheets

```
POOL_PAP_FOR_SPLITTINGOFF PA/TR/FO/LI/SP/DB/BE/DE
```

for media specification. Available values are PA, TR, FO, LI, SP, DB, BE or DE. Default is BE.

..... *To be continued*

Missing Sheet When Splitting a Set Collation, Continuation

individual vs. collective missing sheet

.....
If `POOL_GENERATE_SPLITTINGOFF` is set to `Y` and a set collation is split, this entails that

- for each set member not printed on the primary output device, a missing sheet is created, or
- for several subsequent set members redirected to others output devices, a collective missing sheet is generated. This collective missing sheet contains a list of all redirected set members.

This is specified by

`POOL_COLLECT_SPLITTINGOFF YES/NO`

in the output device section of the pool device in `plossys.cfg`. By default this is `N`, i.e. individual missing sheets are printed, not collective missing sheets.

no documents for main printer

.....
If `POOL_STANDALONE_SPLITTINGOFF` has been set to `Y`, the single or collective missing sheets are output to the main printer although no documents are output to the main printer.

This is specified by

`POOL_STANDALONE_SPLITTINGOFF Y/N`

in the output device section of the pool device in `plossys.cfg`. Default is `N`, that means, no single or collective missing sheets are output to the main printer unless documents are output to the main printer.

layout of the missing sheet

.....
The layout of a missing sheet is specified in a format file, similar to the configuration of cover sheet. This may be specified by the following environment variable:

`SPLITTINGOFF_FMT_FILE`

Unless this item is set, the `splittingoff_xx.fmt` file, with `xx` as value of the environment variable `PLS_LANG`, in the `server\plotserv\plotter` directory is used. If the specified file is not found, the English version is used as default.

sections within the format file

.....
The format file has to contain the following sections:

- `[SPLITTINGOFF]` to specify the first sheet of a missing sheet
- `[LIST]` to specify any subsequent pages.

frame of the missing sheet

.....
The `missing.met` file in the `server\plotserv\plotter` directory contains the default for the frame of a missing page.

..... *To be continued*

Missing Sheet When Splitting a Set Collation, Continuation

Variables used in a format file, e. g. titles and captions, are specified in the default_splittingoff_xx.hed default header (xx as value of the PLS_LANG environment variable) in the server\plotserv\plotter directory. If the specified file is not found, the English version is used as default.

variables in a format file

All these variables begin with the prefix SPO (SPplittingOff).

Items contained in the default header are only applied unless they are default header items in PLOSSYS netdome. In other words: Any item listed in the chapter mentioned is ignored when used in the default header.



Caution

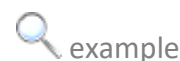
The list item on a missing sheet containing the information about the redirected set members, is specified in the system section in plossys.cfg by the item:

set member list of the missing sheet

```
SPLITTINGOFF_FORMAT ""
```

Default is „.20PLS_PLOTID: PLS_PLOTTER“, for example, „dina0: xes8830“. In this context, the header items of the default header, default_splittingoff.hed, and the header items of the redirected set member can be used.

For each redirected member, an empty colored missing sheet is to be output on a desktop printer. A tray of the printer "laserjet" is loaded with colored paper and configured as medium DB.



example

Extract of the system section of plossys.cfg:

```
SPLITTINGOFF_FORMAT      „“  
...
```

pool plotter section

```
POOL_GENERATE_SPLITTINGOFF      Y  
POOL_PLT_FOR_SPLITTINGOFF       laserjet  
POOL_PAP_FOR_SPLITTINGOFF       DB  
POOL_COLLECT_SPLITTINGOFF       N  
...
```

```
splittingoff_en.fmt:  
[SPLITTINGOFF]  
[LIST]
```

6.5 Configuration of the Controlling with GEKKO

in this chapter

This chapter deals with the following topics:

| Topic | Page |
|-------------------------------|-------------|
| Overview | 159 |
| PLOSSYS Domain | 160 |
| Device Domain | 161 |
| Mapping of the PLOSSYS Domain | 164 |
| Special Mappings | 167 |

Overview

As an alternative to the output scripts, configuration files by which the PLOSSYS domain can be mapped on the device domain, are available with GEKKO. purpose

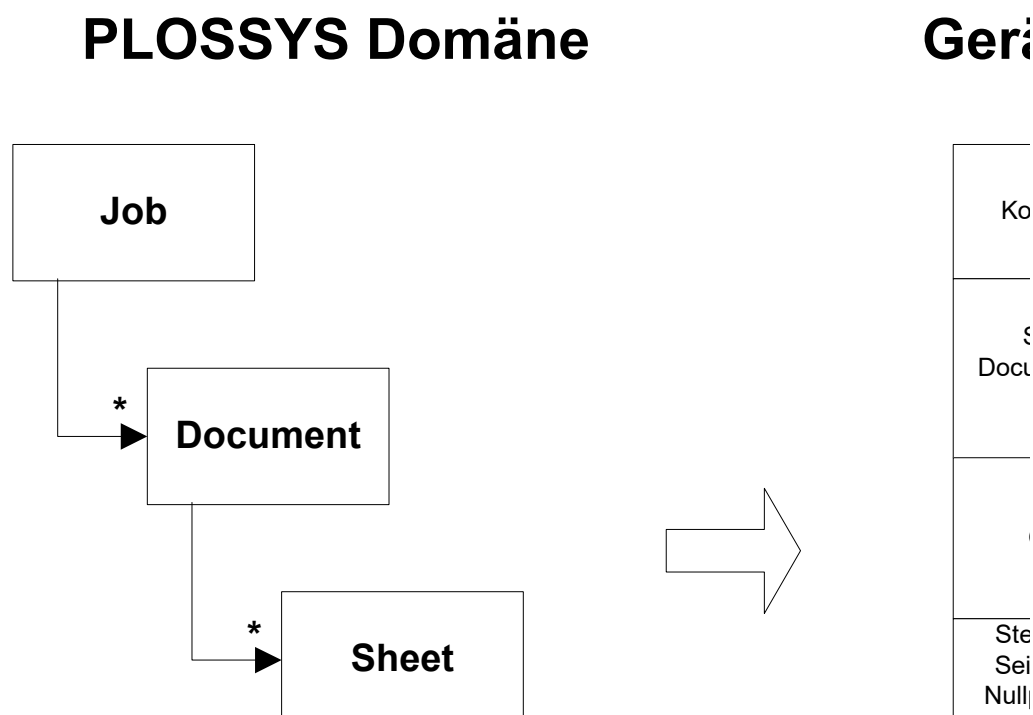
This mapping provides advantages concerning the output rate and the clearness of the device configuration. advantages

Up to now, GEKKO only supports the device domain shown in the figure below. In this domain the graphic code and the functional code are combined to one single spool file and the graphic code is integrated without interruption. availability

The following output devices are not supported by GEEKO: restriction

- Canon CPCA
- KIP
- ROWE

overview - GEK-
KO domains



PLOSSYS Domain

structure

.....
The PLOSSYS domain consists of four layers:

- job layer
- document layer
- sheet layer
- page layer

Each output job always contains the four layers, independent of the complexity of this output job.
.....

job layer

.....
The job layer covers the complete PLOSSYS netdome job, that means all documents belonging to this job. In case of a set collation, this includes all set members. Any mapping specified in this layer only appears once at the beginning or the end of the created spool file.
.....

document layer

.....
The document layer contains the single documents of a job. In case of a single document output job, only one document exist. Mappings specified in this layer appear once per document.
.....

sheet layer

.....
The sheet layer includes all pages to output on the front and back side of a sheet of paper. In most cases, this is one page or two pages in case of duplex printing. But, two pages of a document on one sheet of paper are possible, too. In multi-page files, there are several sheet layers in the document. Mappings specified in this layer appear once per sheet, which means several times in case of multi-page files.
.....

page layer

.....
The page layer contains the separate page of a document. In case of a single-page file it is identical with the document. A multi-page file includes several page layers. Any mappings specified in this layer are interpreted per page and accordingly appear as often in the spool file.
.....

Device Domain

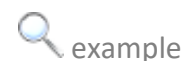
.....
The device domain cannot be described here in detail because it exclusively depends on the particular device. structure

For PLOSSYS netdome purposes, the device domain consists of a spool file which includes both graphic code and functional code.

.....
By several new parameters you can set, in which layer of the PLOSSYS domain the spool files will be created and sent. configuration

.....
Example of settings in the GEKKO configuration file:


```
[SpoolfileCreation]
CREATION_DOMAIN  Sheet    # Job, Document, Sheet, Page
SEND_SPOOLFILES  Separate # Separate, Together
```



.....
By CREATION_DOMAIN, you specify in which layer of a PLOSSYS netdome job, the spool files will be created. Thus, it is possible to map either every single sheet to a spool file or each sheet or each document or a complete set collation.

..... *To be continued*

Device Domain, Continuation




| Keyword | Description |
|-----------------|---|
| CREATION_DOMAIN | <p>Definition on which layer the spool file is created.</p> <p>Values:</p> <ul style="list-style-type: none"> • Document For each document, a separate output job is created. Job domain codes are inserted at the beginning of a document. • Job Only one spool file is created. Job domain printer codes are inserted only once into a set collation. • Sheet One spool file for each duplex page is created. <p> Example: Order of the spool files for a duplex job with four pages: first output job with spool file 1:[Job\Start], [Document\Start], [Sheet\Start], [Page\Start], print data page 1, [Page\End], [Page\Start], print data page 2, [Page\End], [Sheet\End], [Document\End], [Job\End];</p> <p>second output job with spool file 2:[Job\Start], [Document\Start], [Sheet\Start], [Page\Start], print data page 3, [Page\End], [Page\Start], print data page 4, [Page\End], [Sheet\End], [Document\End], [Job\End].</p> <ul style="list-style-type: none"> • Page For each page, a separate output job is created. That means for a document with four pages four separate output jobs are created. For each output job the output device is initialized that is normally done in [Job\Start]. For each page the [Job\Start] commands are inserted first, then the [Document\Start] commands are inserted, then [Sheet\Start], then [Page\Start]. The actual print data follows, followed by [Page\End], [Sheet\End], [Document\End] and [Job\End] commands. |

..... *To be continued*

Device Domain, Continuation

The option SEND_SPOOLFILES specifies at what time the spool files are sent to the output device.

sending spool files


| Keyword | Description |
|-----------------|---|
| SEND_SPOOLFILES | <p>Time at which the spool file is transferred to the output device.</p> <p>Values:</p> <ul style="list-style-type: none"> <p>Separate After the first document, the first spool file is ready. It is directly sent to the output device. Then, the second spool file is created.</p> <p> hint - advantage: Each spool file of a set collation can be separately sent to the output device after its processing, maybe minutes before the next document of the same set.</p> <p>Together The spool files are sent to the output device after all spool files of all documents have been created.</p> <p> hint - advantage: It is unlikely that output jobs of other systems, e. g. Windows, are output in between.</p> <p>Default: Separate</p> <p> hint - requirement: CREATION_DOMAIN is set to Document, Sheet Or Page because only one spool file is created with CREATION_DOMAIN Job.</p> |

Mapping of the PLOSSYS Domain

structure

The configuration is built up in a tree structure. Each layer of the PLOSSYS domain is represented by a node in the top level of the tree structure. Below, there are the nodes that arrange the options in start and end options. In the lowest level, the PLOSSYS netdome options are arranged.

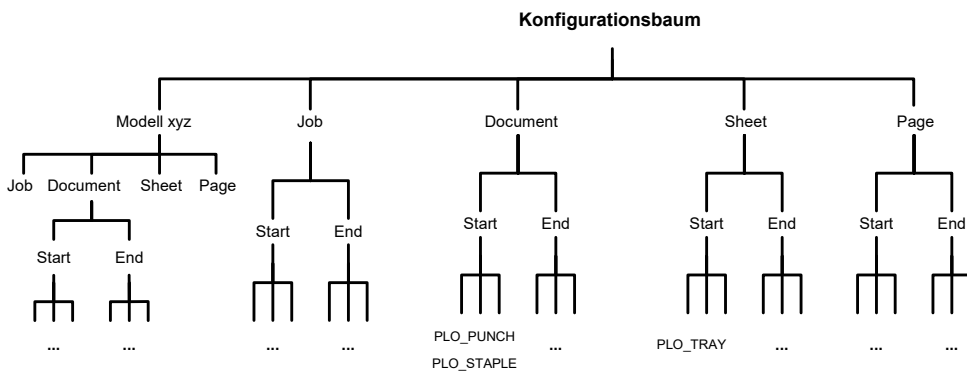
Each node in the tree structure corresponds to a section in the configuration file. The section names reflect the absolute path in the tree structure. The different nodes are separated by a backslash „\“.

 example

Example of a section name:

[Document\Start\PLO_PUNCH|PLO_STAPLE]

overview - mapping of the PLOSSYS domain to the device configuration



..... *To be continued*

Mapping of the PLOSSYS Domain, Continuation


.....
The PLOSSYS netdome options to be mapped, e. g. paper size, drawer number, punching, stapling or folding, are entered in the configuration file in the form of such sections. The values of these options are converted to printer code within these sections similar to decision tables.
.....

PLOSSYS net-
dome options

.....
Example of a section with PLOSSYS netdome options:

```
# Device only able to Punch OR Staple  
[Document\Start\PLO_PUNCH|PLO_STAPLE]  
VALUE "Y|N" "@PJL SET PUNCH=YES\n@PJL SET STAPLE=NO\n"  
VALUE "N|Y" "@PJL SET PUNCH=NO\n@PJL SET STAPLE=YES\n"  
VALUE "N|N" "@PJL SET PUNCH=NO\n@PJL SET STAPLE=NO\n"
```

.....

 example

.....
All header items starting with PLS_, all internal values starting with PLO_ and all freely configurable variables in the output device section in plossys.cfg are supported as options.
.....

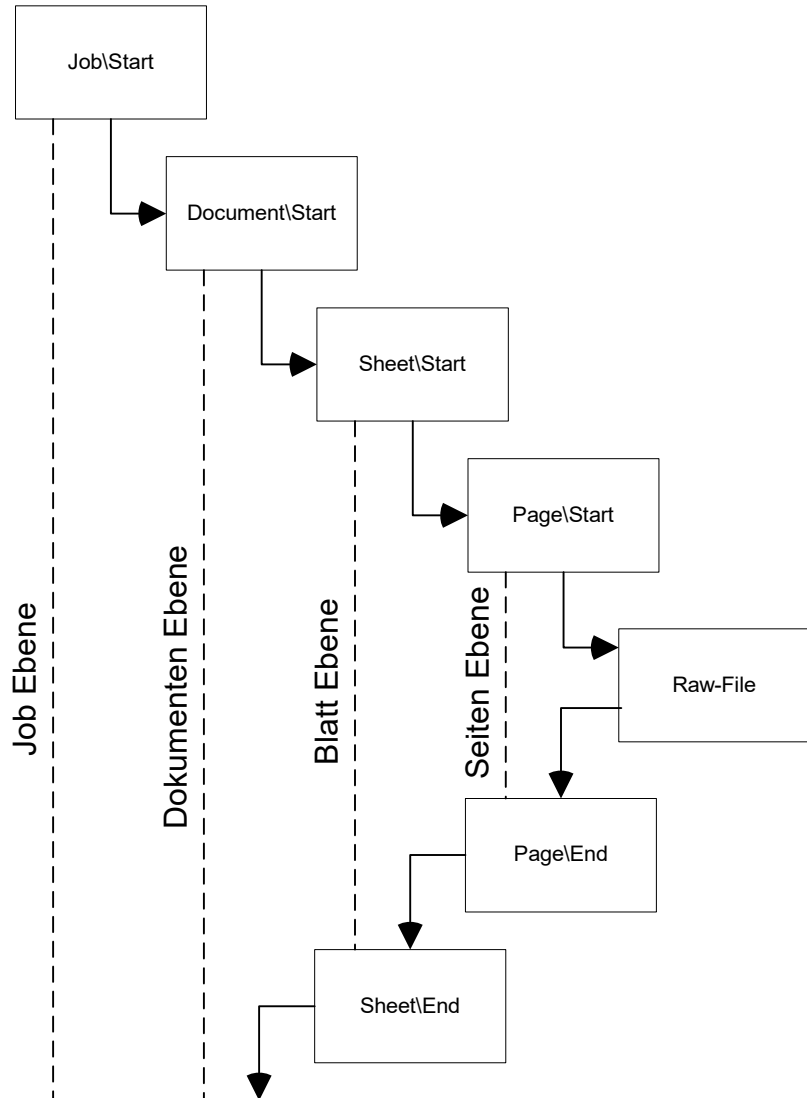
 hint

..... *To be continued*

Mapping of the PLOSSYS Domain, Continuation

order of the sections in the configuration file

The nodes in the domain layer are always processed in their hierarchical order. i. e. at the starting options the job will be processed first, then the document and afterwards the sheet and the page and at the finishing options the other way round. This is illustrated in the following figure:




Special Mappings

.....
Fixed mappings need to be inserted in the appropriate position in the configuration file in a section named `InsertCode`. The value of this option has to be a null string "" in any case.

fixed mappings

Example of a section with fixed mappings:

```
# first command in the spool file
[Job\Start\InsertCode]
VALUE "" "^[%-12345X@PJL\n"
VALUE "*" "@PJL SET STAPLE=YES\n"
```


 example

.....
If there are several values for one option, which lead to the same device code because the device can only handle a part of the specified functions, these values can be combined by concatenating them by OR.

logical operations

Example for a section with logical operations:

```
# Stapling
[Document\Start\PLO_STAPLE_TYPE]
VALUE "ONEUPLEFT" OR
VALUE "ONEUPRIGHT" OR
VALUE "TWOLEFT" OR
VALUE "TWORIGHT" "@PJL SET STAPLE=YES\n"
```


 example

.....
If only particular values of an option need to be mapped to specific device codes and most of the values can be mapped to a standard device code, this standard device code can be inserted as default mapping. For this, the exceptional cases have to be specified first and at last the default case has to be added with the keyword `VALUE "*" .`

default mappings

Example for a section with default mapping:

```
[Document\Start\PLO_STAPLE]
VALUE "N" "@PJL SET STAPLE =NO\n"
VALUE "*" "@PJL SET STAPLE=YES\n"
```

 example

..... *To be continued*

Special Mappings, Continuation

.....
In cases where particular values are not allowed to have a device code mapped, e. g. if the function stapling cannot explicitly be disabled, a null string "" can be entered instead of a device code.

example

Example for a section with empty mapping:
the stapling function can not explicitly be disabled
[Document\Start\PLO_STAPLE]
VALUE "N" ""
VALUE "*" "

In this case the default mapping will be used for any value, also for null values, i. e. if the option has not been specified. If a default mapping is to be used only if it has explicitly been set, the keyword OTHERVALUES has to be used.

example

Example for a section with default mapping:
no stapling, if the value is N
ignore, if no value is set, and
staple in any other case
[Document\Start\PLO_STAPLE]
VALUE "N" "@PJL SET STAPLE =NO\n"
OTHERVALUES "@PJL SET STAPLE =YES\n"


..... *To be continued*

Special Mappings, Continuation

.....
The values in the decision table can be abbreviated by wildcards. The asterisk "*" is allowed to be used only, but no regular expressions.

wildcards

Example for a section with wildcards:

 example

```
# If sorting is enabled, interpret any sort type independent of folding.
# If sorting is disabled and folding is enabled, use default sort type.
# In any other case disable sorting function.
[Page\Start\PLO_FOLD|PLO_SORT|PLO_SORT_TYPE]
VALUE "*" | Y | defaultSORT" OR
VALUE "*" | Y | Band1" "APPLDATA 023 \"DE=1, CI=0\";\n"
VALUE "*" | Y | Band2" "APPLDATA 023 \"DE=2, CI=0\";\n"
VALUE "*" | Y | beliebigSORT" "APPLDATA 023 \"DE=3, CI=0\";\n"
VALUE "*" | Y | Stacker" "APPLDATA 023 \"DE=0, CI=0\";\n"
# default sort type because of enabled folding
VALUE "Y|N|*" "APPLDATA 023 \"DE=1, CI=0\";\n"
# no sorting
VALUE "*" "@PJL SET STAPLE=YES\n"
```

.....
In some cases a mapping with static device code is insufficient, e. g. concerning the number of copies. Here, the PLOSSYS netdome options can be used. The PLOSSYS options have to be specified in the form `${OptionName}`.

variable mappings

..... *To be continued*

Special Mappings, Continuation

model-specific mappings

.....

Different models of an output device may differ in their performance even within a model range. Usually, these variations in the performance only concern the mapping of particular options such as the drawer selection. These variations in the device configuration need to be specified in a separate section in the configuration file, which is named like the model name. The sections for the job, document, sheet and page, [Job\xxx], [Document\xxx], [Sheet\xxx] and [Page\xxx], contain the defaults which are used for most of the devices of the model range.

If output devices have additional units for sorting, punching or stapling or connected folding units, the setting for these have to be specified in the model-specific mappings as well.

example

Example for a section with model-specific mappings:

```
# this is the default:
[Document\Start\PLO_DRAWER]
VALUE "1"  "^[&11H"
VALUE "2"  "^[&15H"

# not for this model:
[ir8500\Document\Start\PLO_DRAWER]
VALUE "1"  "^[&11H"
VALUE "2"  "^[&14H"
VALUE "3"  "^[&15H"
```

hint

.....

With MODEL in the device section in plossys.cfg, you can refer to the particular output device model.

→ MODEL, page 339

.....

7 System - Configuration

.....
This chapter deals with the following topics:

in this chapter

| Topic | Page |
|--|------|
| Notification Via E-Mail | 172 |
| Flagpage and Inscription | 173 |
| Distribution Information | 175 |
| Unicode Processing | 177 |
| Environment Variables for the PDF Generation | 178 |

.....

Notification Via E-Mail

notification

.....
For each job or set collation a message can be sent to the originator when a specific event happened, e. g. the detection of an incomplete set collation or a job with insufficient access permissions in the gate directory or the successful output of an output job.

settings

.....
The configuration of the following keywords in `plossys.cfg` is required:

→ `MAIL_TYPE`, page 277

→ `MAIL_SCRIPT`, page 276

Additionally, the `PLS_MAIL` item in the header has to be set to Y if a notification is desired.

.....

Flagpage and Inscription

.....
 A configurable and output device-specific flagpage is created from the drawing. The contents of the flagpage include e. g. fixed specifications concerning the drawing, the receiver address, the job sender, the scaling, date/time of the output job, etc. Contents can be non-standard and adjusted for all output devices or for each one individually. This is determined by the `FLAGPAGE_FORMAT` keyword in the system or in the output device section in `plossys.cfg`.

output device-
specific flagpage

→ `FLAGPAGE_FORMAT`, page 316

.....
 The inscription is a job-specific margin print, which can cover up to five lines. The text is freely assignable by the user.

job-specific in-
scription

.....
 The printing of the distribution information is controlled via the `FP_GENERATE` keyword in the system or the output device section in `plossys.cfg`. With `-EVER` - the distribution information is always printed, with `-NEVER` - it is never printed and with `-ALLOWED` - the behavior is specified by the `PLS_FLAGPAGE` item in the header. Additionally, the `FLAGPAGE_FORMAT` keyword in the system or output device section in `plossys.cfg` has to have the desired format of the flagpage assigned.

activating the
distribution in-
formation

1. The inscription is output independent of the output of the flagpage whenever `PLS_INFO_X` contains text in the header. Two `PLS_INFO_X` are combined in each case into a line. `PLS_INFO_0` and `PLS_INFO_1` form, for example, the first inscription line etc.

`PLS_INFO_X`

..... *To be continued*

Flagpage and Inscription, Continuation

settings

.....
 The PLOSSYS netdome system administrator can determine the position and the appearance of the distribution information for each output device individually in the output device section in `plossys.cfg` or in the system section for several output devices. The following options are available:

- `FP_TEXTSIZE`, page 326
- `FP_FONT`, page 321
- `FP_SPACING`, page 325
- `FP_COLOR`, page 320
- `FP_POSITION`, page 323
- `FP_SIDE`, page 325
- `FP_DISTANCEX`, page 320
- `FP_DISTANCEY`, page 321
- `FP_ALIGNMENT`, page 319
- `FP_UPVECTOR`, page 327
- `FP_CLEARBG`, page 319



Caution

The flagpage is not scaled with the output job.



hint

The adjustments apply to both the flagpage and to the inscription. If both a flagpage and an inscription are to be imprinted, the flagpage is always imprinted first, followed by the inscription.

.....

Distribution Information

By means of the distribution mechanism, further additional information can be made visible beside the flagpage and the inscription on a drawing. Three types of distribution information are distinguished:

- The distribution information is on a special sheet (FLAGSHEET).
- The distribution information is an independent item on the drawing (ON_PLOT). It is outside of the drawing and is not rotated with the drawing.
- The distribution information is contained in the flagpage on the drawing (FLAGPAGE). All settings set for the flagpage are evaluated.

background
knowledge

types

The printing of the distribution information is controlled via the VERTEILER_TYPE keyword in the system or the output device section in `plossys.cfg`. Keyword - NONE - will never print distribution information, the distribution information can always be forced onto a separate page with - FLAGSHEET - or it always appears on the drawing with - ON_PLOT -, or the distribution information job-specifically replaces the flagpage - FLAGPAGE.

activation

The ON_PLOT type is replaced by FLAGSHEET if the document is to be folded.



Caution

Reason: By applying the distribution information additionally, the document becomes larger, so that it can not be folded correctly.

For a separate sheet with the distribution information - FLAGSHEET -, a GKS file has to exist in the `server\plotserv\plotter` directory with the name of the output device or with the configuration name specified with CONFIG in the output device section in `plossys.cfg` and the `.vwt` extension. This file determine the appearance of the flagpage and may have the same variables which are used with VERTEILER_FLAG.

flagpage file

In the case of FLAGPAGE - the distribution information replaces the flagpage - apply the same conditions as to the appearance flagpage.

flagpage

For configuring the contents of the distribution information, the desired format of the distribution information has to be specified in the VERTEILER_FLAG keyword in the system or output device section in `plossys.cfg`.

To be continued

Distribution Information, Continuation

| | |
|-----------|---|
| settings | <p>.....</p> <p>The PLOSSYS netdome system administrator can determine the position and the appearance of the distribution information for each output device individually in the output device section in <code>plossys.cfg</code> or in the system section for several output devices.</p> <p>→ <code>VERTEILER_TYPE</code>, page 392</p> <p>.....</p> |
| ON_PLOT | <p>For <code>ON_PLOT</code> as <code>VERTEILER_TYPE</code>, the following settings can be specified:</p> <p>→ <code>VERTEILER_TEXTSIZE</code>, page 391</p> <p>→ <code>VERTEILER_FONT</code>, page 390</p> <p>→ <code>VERTEILER_POSITION</code>, page 391</p> <p>→ <code>VERTEILER_ALIGNMENT</code>, page 389</p> <p>The distribution information is always outside of the output jobs and is not rotated with the output job.</p> <p>The distribution information is always imprinted in such a way that it is to be read beginning at the right border, related to the logical model. If both a flagpage and a distribution information are to be output on the drawing, the flagpage is output first.</p> <p>.....</p> |
| FLAGSHEET | <p>For <code>FLAGSHEET</code> as <code>VERTEILER_TYPE</code>, the following settings are adjustable:</p> <p>→ <code>VERTEILER_SIZE</code>, page 391</p> <p>→ <code>VERTEILER_MEDIUM</code>, page 390</p> <p>.....</p> |
| FLAGPAGE | <p>For <code>FLAGPAGE</code> as <code>VERTEILER_TYP</code>, all settings according to the flagpage are available.</p> <p>The contents will be controlled via <code>VERTEILER_FLAG</code> and not <code>FLAGPAGE_FORMAT</code>.</p> <p>.....</p> |

Unicode Processing

PLOSSYS netdome offers the following configuration options for processing Unicode:

configuration

- Environment variables
- Header items
- Settings in `plossys.cfg`

The data of the output job are converted into UTF-8 by PLOSSYS netdome. Log files are always written in UTF-8 character encoding.



Caution


If files with UTF-8 encoded file names are used on a Windows system, the `winmk83.exe` file has to be activated.



Caution - Windows systems

The Unicode processing evaluates the following environment variables:

environment variables

| Environment Variable | Description |
|----------------------|--|
| SEAL_CODEPAGE | <p>Is set in the logon scripts. Default is LATIN1.</p> <p> hint - no header item</p> <p>The environment variable is evaluated if SEAL_CODEPAGE is specified in the header</p> <p>→ <i>Supported Character Encodings</i>, page 464</p> |
| SEAL_DEFAULTCODEPAGE | <p>Is set in the logon scripts. Default is UTF-8.</p> |

The following parameters in `plossys.cfg` are relevant for the Unicode processing:

settings in `plossys.cfg`

→ `STATISTICS_OUTPUT_CODEPAGE`, page 283

→ `HEADER_OUTPUT_CODEPAGE`, page 336

The following header items are relevant for the Unicode processing:

header items

→ SEAL_CODEPAGE

→ SEAL_ORIGCODEPAGE

→ [PLOSSYS_PARAM_TEC]

Environment Variables for the PDF Generation

in addition to
plossys.cfg

When generating PDF in the output driver, environment variables are evaluated in addition to the settings in plossys.cfg.

environment
variables

This chapter lists the environment variables.

PDF_REMOVE_
STRUCTTREE

PDF_REMOVE_STRUCTTREE specifies if the output driver removes StructTree from the PDF file. This way, PDF files with stamps are no longer enlarged by the multiple size of the original file.

The environment variable is optional.

Available values: Boolean

- Y
StructTree will be removed.
- N
StructTree will not be removed.

Default: N

PLS_PDF_DONT_
OPTIMIZE_FONTS

PLS_PDF_DONT_OPTIMIZE_FONTS specifies if the fonts will be optimized when saving modified PDF files. If a font is used several times on different pages of a document, it is saved only once in the document and referenced otherwise.

The environment variable is optional.

Available values: Boolean

- Y
The fonts will not be optimized.
- N
The fonts will be optimized.

Default: N

PLS_PDF_
LINEARIZED

PLS_PDF_LINEARIZED specifies if the PDF file will be linearized and therefore will be displayed faster in the Web.

The environment variable is optional.

Available values: Boolean

- Y
The PDF file will be linearized.
- N
The PDF file will not be linearized.

Default: N

..... *To be continued*

Environment Variables for the PDF Generation, Continuation

.....
PLS_PDF_REPAIR specifies if the PDF files will be opened in the repair mode. PLS_PDF_REPAIR

The environment variable is optional.

Available values: Boolean

- Y
The PDF file will be opened in the repair mode.
- N
The PDF file will not be opened in the repair mode.

Default: N

.....
PLS_PDF_VERSION specifies the PDF version in which the PDF file will be created. PLS_PDF_VERSION

The environment variable is optional.

Available values: Float

- *version*
The PDF file will be created in the PDF version *version*. At the moment, the PDF version 1.3 to 1.6 are supported.

Default: The PDF version will be unchanged.

.....

8 System - Configuration - JBoss

in this chapter

This chapter deals with the following topics:

| Topic | Page |
|---------------------------|------|
| Configure the IP Version | 181 |
| Configure the Port Number | 182 |

Configure the IP Version

JBoss is started by the server\jboss\startstop\100.jboss.start start script. This script specifies the IP version used for the communication between the server and JBoss.

background
knowledge

This is how you specify the IP version:

instructions

| Step | Action |
|------|--|
| 1 | Open server\jboss\conf\tcpip.cfg. |
| 2 | Specify: IP_VERSION = v4 (default) Available values: <ul style="list-style-type: none">• v4• v6 |

This is how you identify the current IP version:

- ipconfig (Windows)
- ifconfig (Linux)

 hint


Configure the Port Number

background
knowledge

.....
The port numbers for the communication methods must be unique. If the port numbers used by PLOSSYS netdome are requested by another applications first while starting the server, the components of PLOSSYS netdome will not start.
.....

instructions

.....
This is how you specify the port number of JBoss:
.....

| Step | Action |
|------|---|
| 1 | Open server\plotserv\plossys.cfg. |
| 2 | Enter in the [JBoss] section: RMI_PORT <Number-Value> JNP_PORT <Number-Value+1>  hint - defaults: RMI_PORT 1098 JNP_PORT 1099 |

.....

9 System - Configuration - LPD Server

.....
 This chapter deals with the following topics:

in this chapter

| Topic | Page |
|---|------|
| PLOSSYS netdome as LPD Server - Without IPP (LPD2PLOSSYS) | 184 |
| PLOSSYS netdome as LPD Server - With IPP (LPD2PLOSSYS) | 185 |
| Configuring PLOSSYS netdome as LPD Server | 186 |
| Starting/Stopping PLOSSYS netdome as LPD Server | 187 |
| Configuration File - lpd.cfg | 188 |

.....
 The LPD server is optional. Contact your Technical Project Manager at SEAL Systems!



Caution

PLOSSYS netdome as LPD Server - Without IPP (LPD2PLOSSYS)

function

.....
PLOSSYS netdome in its capacity as LPD server (LPD2PLOSSYS) contains the following functionality:

- Acceptance of jobs from a LPD client with the help of a SEAL LPD demon process
 - Creation of header, meta and trigger file with the information of the LPR protocol
 - Processing and output of the jobs
-



related top-
ics

For further information about the configuration, refer to:

→ *Configuring PLOSSYS netdome as LPD Server*, page 186

→ *Section [GENERAL]*, page 189

.....

PLOSSYS netdome as LPD Server - With IPP (LPD2PLOSSYS)

.....
PLOSSYS netdome in its capacity as LPD server (LPD2IPP) contains the following function functionality:


- Acceptance of jobs from a LPD client with the help of a SEAL LPD demon process
- Job routing to an external IPP router or to an internal PLOSSYS netdome IPP server
- Establishing of cascades via several IPP server
- Job output on a remote output device
- Notification of the assigning LPR client in the case of error

.....
For further information about the configuration, refer to:

→ *[LPD2IPP] Section*, page 193

→ *Section [GENERAL]*, page 189

.....

 related topics



Configuring PLOSSYS netdome as LPD Server

background
knowledge

The `sea1_lpd.exe` program transfers an output job to PLOSSYS netdome via the LPD default interface. The output job can be either output via the local PLOSSYS netdome or passed on via IPP transfer.

instructions


This is how you configure PLOSSYS netdome as LPD server:

| Step | Action |
|------|--|
| 1 | Specify in the [GLOBAL] section in <code>server\plotserv\lpd.cfg</code> : <code>SYSTEM=PLOSSYS</code> |
| 2 | In the [GLOBAL] section, specify the gate where the files are to be stored for further processing: <code>GATE=stargate</code> |
| 3 | Specify the port in the [GLOBAL] section: <code>PORT=515</code>  Caution - default port 515: On a UNIX or Linux system, the default port 515 is a system port. It can only be used by programs with root privileges. The Set User ID bit and the owner have to be set accordingly: <ul style="list-style-type: none"> • <code>chmod 4755 sea1_lpd.exe</code> • <code>chown root sea1_lpd.exe</code> |
| 4 | Specify the name of the output queue in the [GLOBAL] section: <code>QUEUE=dummy</code> |
| 5 | Specify the file extension of the output jobs in the [GLOBAL] section: <code>EXTENSION=.prt</code>  Caution - prohibited file extensions: The following file extensions are not allowed: <ul style="list-style-type: none"> • <code>cfg</code> • <code>ftn</code> • <code>txt</code> |

Starting/Stopping PLOSSYS netdome as LPD Server


.....
This is how you start PLOSSYS netdome as LPD server:

instructions -
start

| Step | Action |
|------|--|
| 1 | Start seal-lpd with: sysstart seal-lpd  further information: [SYSTEMSTATUS_TEC] |
| 2 | Check the correct operation of seal-lpd with: sysstatus |

.....
This is how you stop PLOSSYS netdome as LPD server:

instructions -
stop

| Step | Action |
|------|---|
| 1 | Stop seal-lpd with: sysstop  hint - emergency stop instead of normal stop: If seal-lpd cannot be stopped with sysstop, the following command can be used: syskill |
| 2 | Check the correct stop of seal-lpd with: sysstatus |

.....

Configuration File - lpd.cfg

introduction

.....
 This chapter contains the reference information about the `lpd.cfg` configuration file.

location

.....
 The configuration file is located in the following directory on the server:
plotserv/lpd.cfg

sections

.....
 The following chapter deals with the relevant sections in the configuration file:

| Topic | Page |
|-------------------------|------|
| Section [GENERAL] | 189 |
| [LPD2IPP] Section | 193 |
| [MAPPING_TABLE] Section | 195 |

.....

Section [GENERAL]


The [GENERAL] section contains the general settings of the job file.

contents

This chapter describes the keywords.

keywords

GATE

| Keyword | Description |
|---------|---|
| GATE | <p>PLOSSYS netdome gate to which the output jobs are transferred.</p> <p>Value as string</p> <ul style="list-style-type: none"> <i>gate_name</i> <p>Default: stargate</p> <p> Caution - not with IPP</p> <p>The keyword will not be evaluated with transferring via IPP.</p> |


PORT

| Keyword | Description |
|---------|--|
| PORT | <p>Port used for the data transfer.</p> <p>Value as integer:</p> <ul style="list-style-type: none"> <i>xxxx</i> <p>Default: 515</p> |


To be continued

[GENERAL] Section, Continuation

QUEUE

| Keyword | Description |
|---------|---|
| QUEUE | <p>Output device to which the job is output.</p> <p>Value as string</p> <ul style="list-style-type: none"> <i>device_name</i> <p>Default: empty</p> <p> hint - no value for QUEUE</p> <p>The keyword will be set if the LPR client does not pass a value.</p> |


File extension

| Keyword | Description |
|-----------|---|
| EXTENSION | <p>File extension of the output file.</p> <p>Value as Boolean:</p> <ul style="list-style-type: none"> <i>file_extension</i> <p>Default: *.prt</p> <p> Caution - prohibited file extensions: The following file extensions are not allowed:</p> <ul style="list-style-type: none"> *.txt, *.ftn, *.cfg |

..... To be continued

[GENERAL] Section, Continuation

LOGLEVEL

| Keyword | Description |
|----------|---|
| LOGLEVEL | <p>Specifies the log level.</p> <p>Messages up to the specified type are written into the log file.</p> <p>Value as enumeration:</p> <ul style="list-style-type: none"> • error Error messages • warn Additional warnings + error • info Additional success messages + warn • debug Additional diagnostic messages + info • trace Additional trace messages + debug <p>Default: info</p> <p> hint - at runtime:</p> <p>The log level can be changed during runtime. The seal_lpd.exe program does not have to be restarted.</p> |

..... *To be continued*

[GENERAL] Section, Continuation

PLOTID_Format

| Keyword | Description |
|---------------|---|
| PLOTID_FORMAT | <p>Specifies the format of the file name.</p> <p>Value as String_String:</p> <ul style="list-style-type: none"> • <code>\${FILE}_\${TIMESTAMP}_\${USER}_...</code> <p>The following values are available:</p> <ul style="list-style-type: none"> • <code>\${FILE}</code> • <code>\${TIMESTAMP}</code> • <code>\${USER}</code> • <code>\${JOBID}</code> • <code>\${HOST}</code> • <code>\${QUEUE}</code> <p>Default:</p> <p><code>\${FILE}_\${TIMESTAMP}</code></p> |

[LPD2IPP] Section

The [LPD2IPP] section contains the settings for configuring the transfer via IPP.

contents

This chapter describes the keywords.

keywords

| Keyword | Description |
|-----------------------|---|
| KEEP_FAILOVER_SECONDS | <p>Unless the server specified by NextHop is available, the Failover server is used for the specified number of seconds.</p> <p>Value as integer in seconds:</p> <ul style="list-style-type: none"> xxx <p>Default:</p> <p>300</p> |

KEEP_
FAILOVER_SEC-
ONDS

| Keyword | Description |
|-------------------------------|--|
| RETRY_BEFORE_FAILOVER_SECONDS | <p>Time interval in which is tried to send the output job to the server defined by NextHop. This is tried according to the time interval specified with RETRY_INTERVAL_SECONDS. If the job cannot be transferred, sending the job to the server specified with Failover is tried once. If this is not successful or no Failover server is specified, SEAL LPR sends an error message to the assigning LPR client.</p> <p>Value as integer in seconds:</p> <ul style="list-style-type: none"> xxx <p>Default:</p> <p>0</p> |

RETRY_BEFORE_
FAILOVER_
SECONDS

To be continued

[LPD2IPP] Section, Continuation

RETRY_INTERVAL_
SECONDS

| Keyword | Description |
|----------------------------|---|
| RETRY_INTERVAL_ SECONDS | <p>Time interval between the retries if the server defined with NextHop is not reachable. The maximum number of retries is defined by the keyword RETRY_BEFORE_FAILOVER_SECONDS.</p> <p>Value as integer in seconds:</p> <ul style="list-style-type: none">• xxx <p>Default:</p> <p>5</p> |

[MAPPING_TABLE] Section

The [MAPPING_TABLE] section contains the configuration for transferring the output job via IPP.

contents

This chapter describes the keywords.

keywords

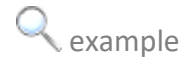
In order to activate the sending via IPP and to evaluate the mapping table, the following conditions have to be valid:



Caution

- Active=Y
- PrinterName=name_of_the_output_queue_in_the_job

Example of a mapping table:



example

| Active | Printer-Name | Native | Destination | NextHop | Failover |
|--------|--------------|--------|----------------|----------------------|-------------|
| Y | PDFOUT | N | jupiter:PDFOUT | jupiter:4631 | saturn:4631 |
| N | PDFOUTSSL | YN | jupiter:PDFOUT | https://jupiter:4443 | |

The name of the output device in the LPR command, PRINTERNAME, and the name of the output device in the specification of Destination are mapped.

Thus, it is possible to map old output device names, e.g in Mainframe systems, to PLOSSYS netdome names.

If the server specified by NextHop is an IPP router, it can evaluate the way to the specified output device by interpreting the Destination keyword. Cascades are possible.

Unless the server specified by NextHop is reachable, reaching the server specified by Failover is tried. If no server can be reached, an error message is sent to the assigning client.


..... *To be continued*

[MAPPING_TABLE] Section, Continuation

Active

| Keyword | Description |
|---------|---|
| Active | <p>Activates or deactivates the data transfer for the output queue via IPP.</p> <p>Value as Boolean:</p> <ul style="list-style-type: none"> • Y A data transfer via IPP takes place. • N A data transfer via IPP does not take place. <p>Default: N</p> |

PrinterName

| Keyword | Description |
|-------------|---|
| PrinterName | <p>Name of the output queue passing on data via IPP.</p> <p>Value as string</p> <ul style="list-style-type: none"> • <i>printer_name</i> <p>Default: PDFOUT</p> <p> example: PDFOUT_IPP</p> |


..... *To be continued*

[MAPPING_TABLE] Section, Continuation

Native

| Keyword | Description |
|---------|--|
| Native | <p>Specifies if the output job will be processed or bypassed.</p> <p>Value as Boolean:</p> <ul style="list-style-type: none"> Y The output job will be passed on to the output queue without further processing. N The output job will be processed according to the settings. <p>Default: N</p> |


Destination

| Keyword | Description |
|-------------|---|
| Destination | <p>Server and output device where the output job is to be output</p> <p>Value as String:String</p> <ul style="list-style-type: none"> <i>server:queue</i> <p>Default: empty</p> <p> example: jupiter:pdfout</p> |


..... *To be continued*

[MAPPING_TABLE] Section, Continuation

NextHop

| Keyword | Description |
|---------|--|
| NextHop | <p>Server to which the output job is transferred at first. The value defined by NextHop serves as access point for cascades.</p> <p>Value as String:Integer</p> <ul style="list-style-type: none"> <i>https:server:port</i> <p>Default: empty</p> <p> example: <i>https://jupiter:4443</i></p> |

Failover

| Keyword | Description |
|----------|---|
| Failover | <p>Server to which the output job will be transferred unless the entry point (NextHop) is available.</p> <p>Value as String:Integer</p> <ul style="list-style-type: none"> <i>server:port</i> <p>Default: empty</p> <p> example: <i>https://saturn:4631</i></p> |

10 System - Resources

.....

This chapter deals with the following topics:

in this chapter

| Topic | Page |
|---------------------------------------|------|
| Process Administration | 200 |
| Load Balancing Between Output Systems | 203 |

.....

Process Administration

reasons for output device scheduling

Normally all necessary processes are started with the start of PLOSSYS netdome and terminated only when stopping PLOSSYS netdome. Proceeding that way, a lot of server resources (memory, process table items, CPU time) are tied to a process as long as PLOSSYS netdome is running. Since not all of its processes are to be active all times, a process scheduling may be appropriate. This can be done either by the priority administration of the respective UNIX operating system, or with the task management (scheduling) of PLOSSYS netdome. The latter will stop inactive processes and restart them when needed. The task management is mainly used for output device processes.

advantages

The main advantages of the output device scheduler are:

- If many output jobs arrive at different queues at the same time, the system is extremely loaded: All output device processes "compete" for the CPU time at the same time. The system may also run short of memory, so that the server starts paging out. This slows down the system even further. In consideration of this fact, it makes more sense to serialize the job processing. That is, what is done, for example, in modern operating systems (i.e. the multitasking is partially switched off).
- The memory reserved by the output device driver is returned to the system. This is especially important, after large raster output jobs have been processed, as in this case, the output device driver may have used a lot of memory for processing. Due to the UNIX memory management architecture, this memory is only returned to the system, after the respective process has been completed.
- The process table is not filled unnecessarily. Thus, errors such as 'could not fork' or 'no more processes' are avoided.



hint

The task management comes with the installation or after arrangement with your Technical Project Manager at SEAL Systems.

To be continued

Process Administration, Continuation

.....
 The output device scheduler has the following settings:

setting options

- General schedule processing: A maximum number of simultaneously running output device processes can be specified. These are stopped and restarted as required.
- Taking exceptions into account: Certain output device processes can be excluded from the schedule processing. This means, that, for example, the driver for a high-performance output device is always operational.
- Inactivity: Output device processes are stopped after they have been inactive for a configurable time.
- Lifetime: Output device processes are stopped after the maximum lifetime has reached.
- Number of jobs: Output device processes are stopped after a configurable number of continuously processed jobs.

.....
 You configure the process management in `plossys.cfg`.

configuration

.....
 In the system section, you configure the general settings and defaults for multiple output devices:

system section

- `SCHEDULE_MAXPROCESS`, page 281
- `DEF_SCHEDULE_INACTIVE`, page 271
- `DEF_SCHEDULE_MAXJOBS`, page 272
- `DEF_SCHEDULE_MAXLIVETIME`, page 272
- `DEF_SCHEDULE_TYPE`, page 273

.....
 In the output device section, you configure the settings for the correspondent output device:

output device section

- `SCHEDULE_TYPE`, page 378
- `SCHEDULE_INACTIVE`, page 378
- `SCHEDULE_MAXJOBS`, page 379
- `SCHEDULE_MAX_LIVETIME`, page 379

..... *To be continued*

Process Administration, Continuation

output device
processes - over-
view

The following table shows when the output process is running:

| Output device status | printing | ready | stopped | redirected |
|----------------------|----------|--|---------|------------|
| NO | ü | ü | ü | ü |
| RESTART | ü | ü (restart according to parameter settings) | - | - |
| PART | ü | ? (stop according to parameter settings, restart if required) | - | - |
| FULL | ü | ? (PART + taking into account SCHEDULE_MAX-PROCESS) | - | - |

 **Caution**

The number specified for SCHEDULE_MAXPROCESS should be less or equal than the value of output devices with process management FULL.

The maximum number of parallel running output processes is equal to
SCHEDULE_MAXPROCESS +
number of output devices with process managing RESTART +
number of output devices with process managing PART +
number of output devices with process managing NO.

Load Balancing Between Output Systems

As of PLOSSYS netdome 3.1.7, load balancing between output systems is also available in addition to the one between output devices. Since the server workload is calculated from the clients as well as from the server itself, an almost equal distribution is achieved. When a server goes off-line, the other servers will adjust their distribution to avoid sending jobs to the off-line server, thus requiring no administrative action.

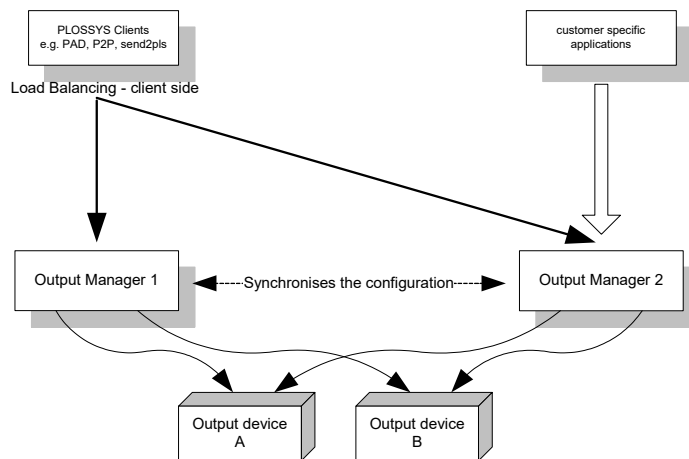
Overview

In order to use load balancing, a system with at least two identical PLOSSYS netdome systems is required.

requirement

The following graphic demonstrates an example configuration where load balancing is set up on two PLOSSYS netdome systems.

internal Process



Before sending the jobs, the available output management systems are determined. This adds a reliable balancing advantage. The actual numbers of jobs that have yet to be output are compiled, determines the load of the different servers. The jobs are sent to the server with the fewest load (the fewest waiting jobs). The input directory is stargate.

client side

Information about the best server is also available to external applications.

When determining the workload distribution, stopped or started output devices can not be differentiated.






hint

To be continued

Load Balancing Between Output Systems, Continuation

installation/con-
figuration

This is how you install and activate the load balancing:

| Step | Action |
|------|--|
| 1 | <p>In the system section in <code>plossys.cfg</code>, enter the following line:</p> <pre>QSTAT_CHANGED_CALL exec_queue_commands.pl</pre> <p> hint - information comparison:</p> <p>The <code>exec_queue_commands.pl</code> script is located in the <code>server\plotserv</code> directory and ensures information synchronization between the individual output systems.</p> |
| 2 | <p>In the <code>lbhosts.cfg</code> file, specify all output systems that will take part in load balancing.</p> <p> hint - symbolic names for output devices:</p> <p>The <code>lbhosts.cfg</code> file is located in the <code>server\plotserv</code> directory.</p> <p>In the [CONNECTIONS] section, all output systems have to be specified in the form of symbolic names with the <code>HOST_LIST</code> item. The individual names are separated by blanks.</p> <p>For each symbolic name, a line with the following format has to be added:</p> <pre>sym_name server_name port_number</pre> <p> example for the <code>lbhosts.cfg</code> file:</p> <pre>[CONNECTIONS] HOST_LIST PLS1 PLS2 PLS3 PLS1 sealsun12 7779 PLS2 sealdos28 7654 PLS3 sealdos67 7007</pre> |

11 System - Backup/Reference/Test System

.....

This chapter deals with the following topics:

in this chapter

| Topic | Page |
|------------------------------------|------|
| Overview | 206 |
| Backup System | 208 |
| Reference/Variant System | 213 |
| Customer Copy and Test Environment | 223 |

.....

11.1 Overview

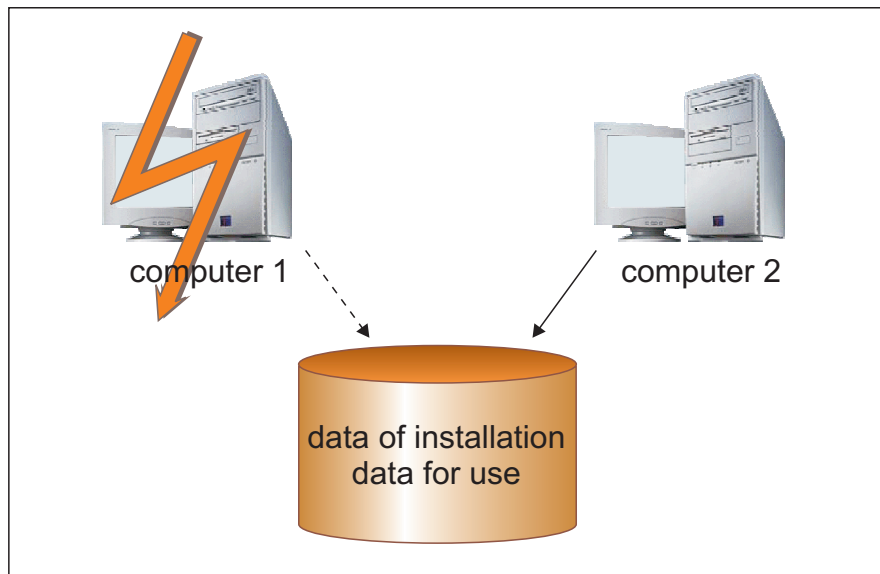
purpose

PLOSSYS netdome supports the administration of similar systems, which differ only slightly.

backup system

The backup server covers the following application scenarios:

- A backup server should execute the tasks of the failed main server.
- PLOSSYS netdome runs on a cluster. The data and program installation are located on a fail-saved RAID system.




..... *To be continued*

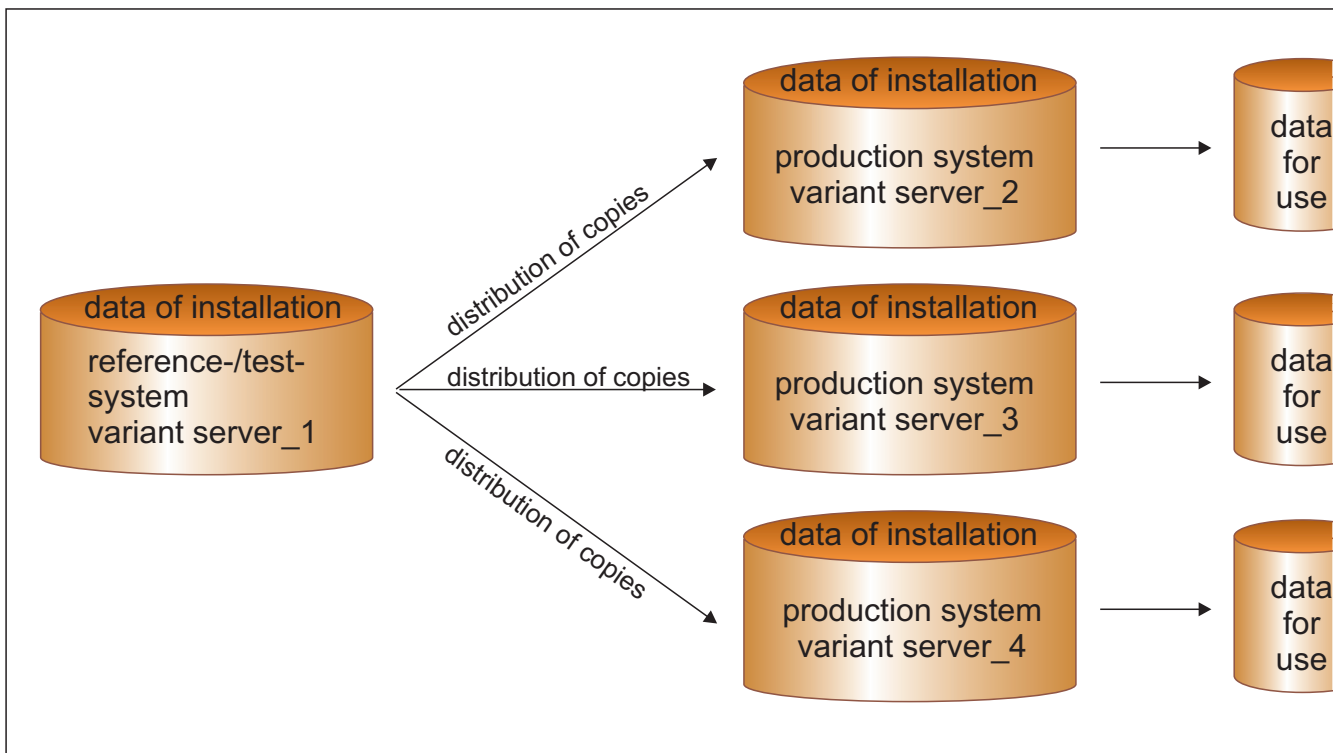
Overview, Continuation

The reference and variant system covers the following application scenarios:

- In addition to the main PLOSSYS netdome system or test system, several PLOSSYS netdome systems should be installed. The systems also known as variants differ only slightly from the main system - also known as reference system, e. g. only more output devices and gates are installed. Maintenance, attendance and test task are executed on the reference systems.

reference/variant system

 example



The customer copy and test environment cover the following application scenarios:

- A customer copy from the client, without changes, should be executable by SEAL Systems. Additionally, it should be possible that the test environment, without changes, can be tested on different platforms.

customer copy and test environment

11.2 Backup System

in this chapter

This chapter deals with the following topics:

| Topic | Page |
|--------------|------|
| General | 209 |
| Installation | 210 |
| Process | 211 |

General

.....
A backup system includes an identical PLOSSYS netdome which accesses the same programs and data but runs on a different server of the same type of operating system (e. g. cluster system). Only exactly one PLOSSYS netdome of the backup system can be active.

background
knowledge

.....
Overview of the advantages:

- PLOSSYS netdome can be started on all servers for which a checksum is specified in the checksum section of `plossys.cfg`.
- The backup system is activated with `plsstart`. No manual changes are required.
- Since the backup system accesses the same data, all jobs beforehand are activated from the system and can be modified and repeated as normal.
- Modifications of PLOSSYS netdome can be executed at any time and are equally available at all servers of the backup system.

advantages

.....
The following restrictions apply:

- Within a backup system, all PLOSSYS netdome systems have to run under the same user.
- Only exactly one PLOSSYS netdome of the backup system can be active.
- After switching to another PLOSSYS netdome system from the backup systems, the clients have to be restarted. Before, distributing `plossys.ini` and `knetplot.cfg` may be necessary unless the clients are configured in the installation directory of PLOSSYS netdome.
- System interfaces, such as output device queues (`lpr -P printer`), have to be available on all servers of the backup system in the same manner.
- All servers of a backup system have to run under the same type of operating system.

restrictions

Installation

installation

For installing a backup system, the following file is important:

```
server\plotserv\startstop\004.variante.start
```

For each server integrated in the backup system, a checksum has to be specified in the [CHECKSUM] section in plossys.cfg:

example

Example of the item in plossys.cfg:

```
[CHECKSUM]
server_1  9705003
server_2  9746303
server_3  9717632
```

Caution

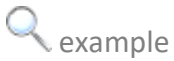
The checksums will be provided for you by your Technical Project Manager at SEAL Systems.

Process

.....
At the start of PLOSSYS netdome using plsstart, the name of the current PLOSSYS netdome server is specified and the appropriate checksum from the paragraph is transferred automatically from the [CHECKSUM] to the [LICENSE] section. Additionally, the server name is updated in all relevant places. No manual changes are required.

..... *To be continued*

Process, Continuation



The current PLOSSYS netdome on server_1 has to be deactivated temporarily due to repair work. Instead, the backup system on server_2 is started.

Original PLOSSYS system on server_1

| [LICENSE] | |
|-------------------|------------|
| INSTALL_NUMBER | 107 |
| CUSTOMER_NAME | test |
| NODE_NAME | server_1 |
| EXPIRATION_DATE | 31.12.2032 |
| LICENSED_PLOTTERS | 10 |
| PREVIEW_OPTION | Y |
| MIRROR_OPTION | Y |
| SPLIT_OPTION | Y |
| SETCOLL_OPTION | Y |
| CHECKSUM | 9705003 |
| [CHECKSUM] | |
| server_1 | 9705003 |
| server_2 | 9746303 |
| server_3 | 9717632 |

Changes with restart on server_2

| [LICENSE] | |
|-------------------|------------|
| INSTALL_NUMBER | 107 |
| CUSTOMER_NAME | test |
| NODE_NAME | server_2 |
| EXPIRATION_DATE | 31.12.2032 |
| LICENSED_PLOTTERS | 10 |
| PREVIEW_OPTION | Y |
| MIRROR_OPTION | Y |
| SPLIT_OPTION | Y |
| SETCOLL_OPTION | Y |
| CHECKSUM | 9746303 |
| [CHECKSUM] | |
| server_1 | 9705003 |
| server_2 | 9746303 |
| server_3 | 9717632 |

11.3 Reference/Variant System

.....

This chapter deals with the following topics:

in this chapter

| Topic | Page |
|--------------|------|
| General | 214 |
| Installation | 216 |
| Process | 218 |

.....

General

background knowledge

.....
A reference or variant system contains of several PLOSSYS netdome systems started on different servers and differing only slightly. The differences are normally stated in the list of the available output devices and the list of the active gates. One of the PLOSSYS netdome system serves as a test and reference system, the remaining systems represent the different productive systems. Each PLOSSYS netdome system (both the reference system and each productive system) represents a variant.

name of the variant

Every variant can be identified by its name. The name is compiled from the user and the server name, for example, `plossys/server_1`, or is set explicitly by the `PLS_VARIANTE` environment variable. If the environment variable is set, the system will use it and not the default name, `user_name/server_name`.

advantages of a variant system

.....
The variant system has the following advantages:

- The variant system operates individually from the backup system, so when starting PLOSSYS netdome, the variant system and then the backup system are run.
- The single variants can be started on all servers for which a checksum has been specified in the checksum section of `plossys.cfg`.
- A variant will be started with `plsstart`. No manual changes are required.
- The variant can be run under different users, as long as each variant has its own copy of the software and installation files.
- On the different servers, you can run multiple variants at one time.
- For all variants, only one `plossys.cfg` exists containing the complete configuration. Solely by taking values from a variant section when starting, the variant will become active.

..... *To be continued*

Overview, Continuation

.....
The variant system has the following restrictions:

restrictions

- Every variant has to have their own copy of the software and data.
 - Modifications to the system can only be executed from the reference system and have been transferred to other systems, before they are active. For the distribution, the administrator has to provide the configurations whereby caution has to be taken not to copy all user data from the %PLSDATA% directory.
 - Clients always refer to a variant or can serve several variants if they are multi-serverable.
 - System interfaces, such as output device queues (`lpr -P printer`), have to be available on all variants in the same manner.
 - It is advisable that all variants run on the same operating system. Otherwise, you have to ensure the completeness of the variants by explicitly testing on the different server types.
-


Installation

installation

For installing a reference or variant system, the following file is required:

```
server\plotserv\startstop\004.variante.start
```

For each server integrated in the reference/variant system, a checksum has to be specified in the [CHECKSUM] section in plossys.cfg:

 example

Example of the item in plossys.cfg:


```
[CHECKSUM]
server_1  9705003
server_2  9746303
server_3  9717632
```

 **Caution**

The checksums will be provided for you by your Technical Project Manager at SEAL Systems.

setting in
plossys.cfg

The single variants are configured in specific sections in the plossys.cfg, the so-called variant sections. In the system section, the PLS_VARIANTE item has to exist. This item is set with the name of the last active variant. Also, the general [DEFAULT_VARIANTE] section can be used beside the specific variant sections [user_name/server] for the production systems and the reference systems, in order to configure reasonable defaults for all variants.

 example

Example of the item in plossys.cfg:

```
SYSTEM]
  PLS_VARIANTEplossys/server1

[DEFAULT_VARIANTE]
  PLOTTER_SECTIONSp1t1 plt2 plt3
  GATE_LIST          tiffgate

[plossys/server_1]
  PLOTTER_SECTIONSp1t1 plt2
  GATE_LIST          tiffgate c907gate

[plossys/server_2]
  PLOTTER_SECTIONSp1t3
```

 **Caution**

For the usage of a reference or variant system, the PLS_VARIANTE item in the system section of plossys.cfg has to be set to any value, such as plossys/test-server, during the initial installation. Additionally, the appropriate section has to be available, such as [plossys/testserver].

..... *To be continued*

Installation, Continuation

.....
In the variant sections, all items valid for the [SYSTEM], [KNET] and [GATE_START] sections can be used. For a list of the keywords supported in these sections, refer to the reference. By general, the PLOTTER_SECTIONS and GATE_LIST items are mainly included in the variant sections.
.....

configuration

Process

background
knowledge

.....
When starting PLOSSYS netdome, it is checked if the current variant set as PLS_VARIANTE in the system section in plossys.cfg matches the current variant which is to be started according to the value of *user_name/server* or the settings of the environment variable PLS_VARIANTE. If the last started variant differs from the variant to be started, the system switches to the new variant.
.....

process

The following steps are executed:

| Step | Action |
|------|--|
| 1 | The items in the [DEFAULT_VARIANTE] section and the current start variant are passed to the [SYSTEM], [KNET] and [GATE_START] sections. At first, the items of the [DEFAULT_VARIANTE] section are read. Afterwards, the items of the actual running variant are read. Thus, the items of the actual running variant overwrite the items of the default variant. |
| 2 | The PLS_VARIANTE item in the system section has to be set as the current variant. |
| 3 | The plossys.cfg.ts file with the current timestamp of plossys.cfg is created in the server\plotserv directory. |

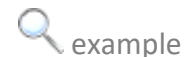
 **Caution**

.....
It is important that the items set in one variant are also set either in all other variant sections or in the [DEFAULT_VARIANTE] section Otherwise, when starting a variant with missing items, maybe some items from the previous variant may be valid which may not be desired.
.....

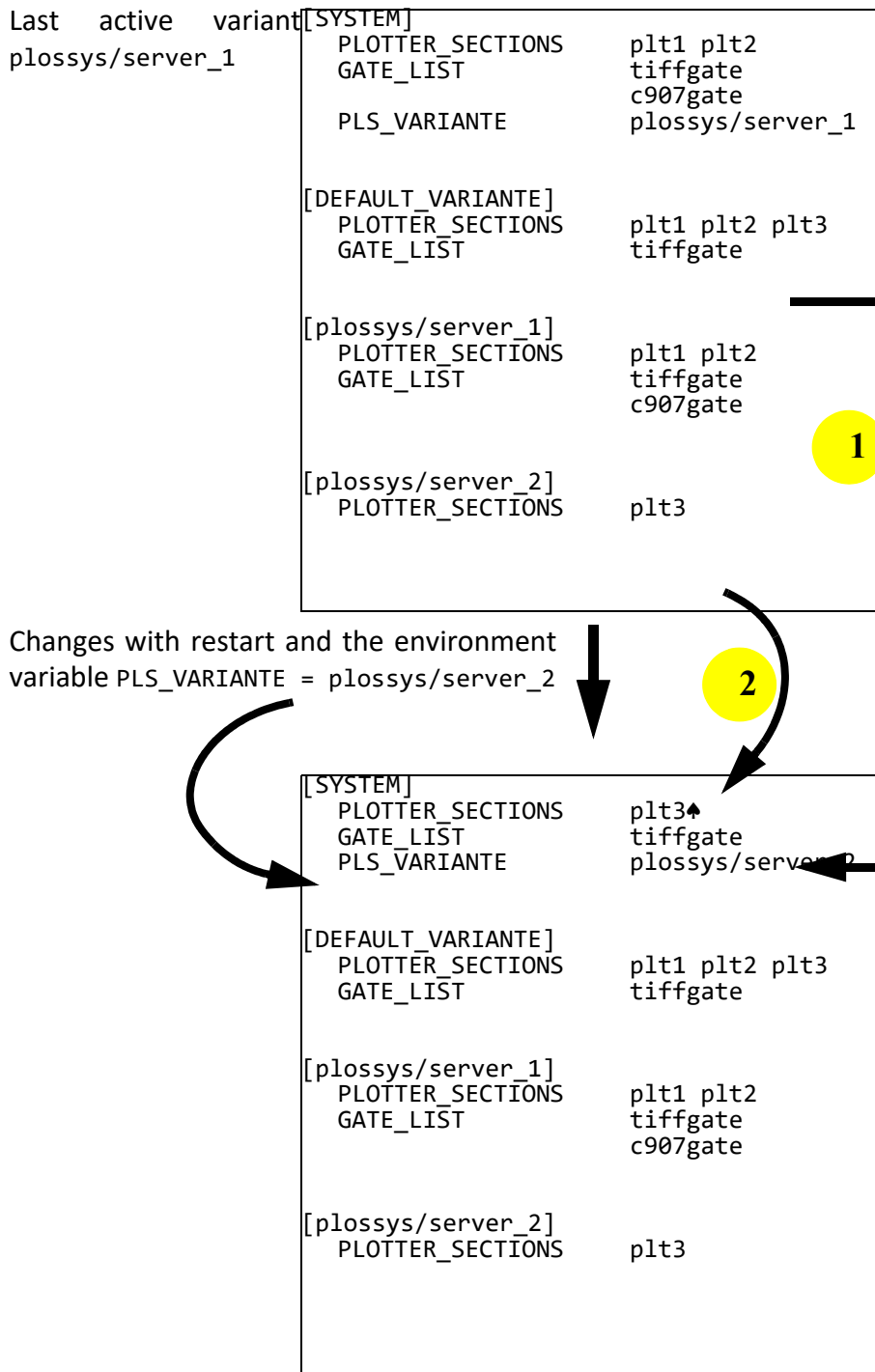
To be continued

Process, Continuation

Example of a start of a modified variant:



The variant `plossys/server_2` is to be started. Before, the variant `plossys/server_1` has been active. For this, logon on to the server `server_2` as user `plossys` or set the `PLS_VARIANTE` environment variable to `plossys/server_2`.




To be continued

Process, Continuation

start of a modified variant - saving of changes

The last current state variant and the started variant are compared at the start of PLOSSYS netdome system and will run through the following action (look at the next example: Starting a changed variant):


| Step | Action |
|------|--|
| 1 | In order to find out if plossys.cfg has been changed, the timestamps from plossys.cfg.ts is compared against the current timestamp of plossys.cfg. |
| 2 | <p>If the timestamps differ, plossys.cfg is backed up before saving the changes. Subsequently, the items of the [SYSTEM], [KNET] and [GATE_START] sections will be passed to the [DEFAULT_VARIANTE] section and the section of the current variant. In this process any item not included in the current variant section will be taken from the [DEFAULT_VARIANTE] section.</p> <p> Caution - restart PLOSSYS netdome:</p> <p>In order to save the changes made to a variant in the [SYSTEM], [KNET], and [GATE_START] sections, PLOSSYS netdome has to be restarted! In general, modifications are executed in the variant that serves as reference system. After restarting the variant, plossys.cfg can be distributed to the other variants.</p> |
| 3 | Unless the timestamp differs, plossys.cfg will not be changed. |

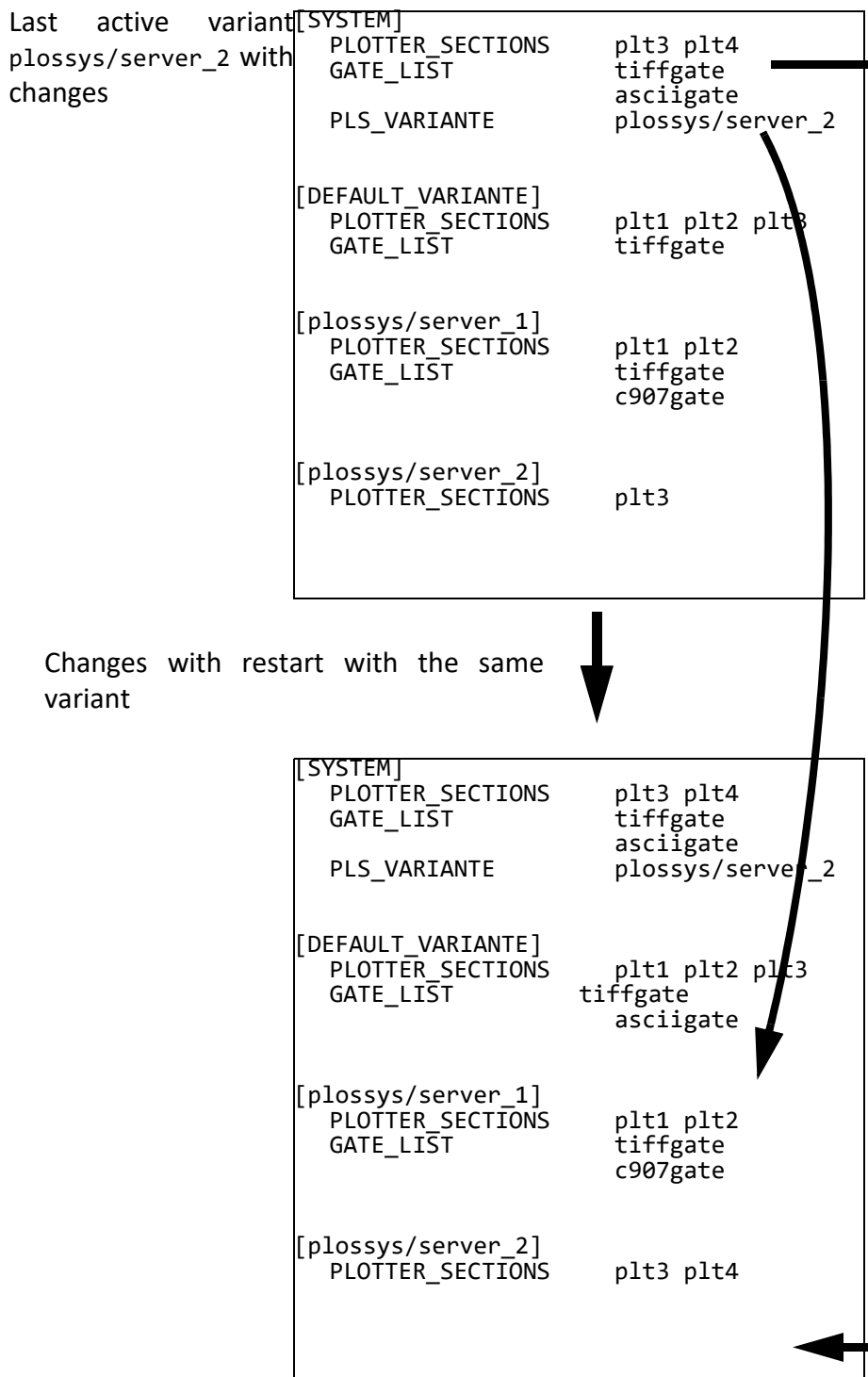
..... *To be continued*

Process, Continuation

Example of a start of a modified variant:

In the current active variant, plossys/server_2, the plt4 output device and the asciigate gate have been installed. These modifications are to be stored for this version. For this, PLOSSYS netdome is restarted with the same variant.

 example -
 starting a new
 unmodified vari-
 ant



..... To be continued

Process, Continuation

testing a variant

.....
A variant can also be tested on a test/reference system without having to change the production system. For this, the environment variable `PLS_VARIANTE` has to be set to the desired variant name. Then, the variant is then with the checksum of the current server.

Caution

As requirement, the variant that is to be tested later has to run on the same type of operating system. Otherwise, the other server type has to be tested explicitly in order to ensure completeness.

example

Example for the test of a variant.

Currently, the `plossys` user is logged on to the `server_1` server. In order to test the `server_2` variant on the current server, `server_1`, the `PLS_VARIANTE` environment variable has to be set to `plossys/server_2` and `PLOSSYS netdome` has to be started with `plsstart`.

.....

11.4 Customer Copy and Test Environment

.....

The creation of a backup system for the customer copy is one of the applications of a backup, reference, or variant system. In this case, a copy of the customer installation is executable without modifications on the test environment at SEAL Systems. Depending on the customer environment, it can be required to use a variant system instead of a backup system as customer copy or test environment. For example, this is required for certain output devices expecting fix server data in `plossys.cfg`.

backup system
for a customer
copy

.....

In principle, the variant and also the backup system can be used on different platforms. However, the following restrictions apply:

restriction

- If the same data and installation directories are used, the variant has to run under the same user. Then, only one system can run at a time.
 - For each operating system, the current directory for the binaries has to be established. The completeness and functionality of these paths can only be verified on the respective operating system.
 - The completeness and functionality of operating system-dependent procedures in Perl scripts can only be verified on the respective operating system.
-

12 Background Knowledge - SEAL Spooler Process

in this chapter

This chapter deals with the following topics:


| Topic | Page |
|---------------------------|------|
| Overview | 225 |
| Structure of SEAL Spooler | 230 |
| Command Line Parameter | 235 |

12.1 Overview

.....
The SEAL Spooler process separates the calculation of the output jobs from the output of the spool files on the output device. purpose

.....
The separation of the calculation from the output of a spool file increases the performance of the system. advantage

With the output methods `mtfilter`, `fastport` and `hnp`, each page of a spool file is transferred to the output device separately. The connection to the output device is not interrupted. The output can be started before the output job is calculated completely. As opposed to before, it is no longer possible that pages of another output job can intervene.

.....
SEAL Spooler is an independent program. It can be used separately from PLOSSYS netdome.  hint

.....
This chapter deals with the following topics: in this chapter

| Topic | Page |
|-------------------------|------|
| Configuration | 226 |
| Environment Variables | 227 |
| Supported Output Method | 228 |
| Batch Controlling | 229 |

Configuration

activation - key-
word

.....
SEAL Spooler is activated by the following keyword in `plossys.cfg`:

[SYSTEM]

USE_SPOOLER
.....

mandatory key-
word

If SEAL Spooler has been activated, the following keyword has to be specified in `plossys.cfg`:

[SPOOLER]

SPOOLER_URL
.....

optional key-
words

The following optional keywords can be specified:

[SPOOLER]

TIMEOUT
.....





hint

SEAL Spooler can be activated for the whole output management system or just for one output device.
.....

Environment Variables

SEAL Spooler uses the following environment variables:

environment
variable

| Environment Variable | Meaning |
|----------------------|--|
| SPOOL_DEB_TRACE | Output of detailed information about SEAL Spooler Available values: N: no trace messages Y: trace messages T: more trace messages (only output method PJJ) Default: N  hint - before start: SPOOL_DEB_TRACE has to be set before SEAL Spooler is started. For this, the environment variable can be set, for example, in server\plotserv\startstop\145.seal-spooler.start. |
| SPOOLTMP | Directory for temporary files Default: %TMP% |
| SPOOLDATA | Base directory for spool files and output job information (mandatory) |
| SPOOLSTAT | Directory for statistic file |
| SPOOLDATA | Directory for lock file |
| SPOOLURL | URL for port or server (mandatory) |
| SPOOLTIMEOUT | Timeout for the output device queue |
| SPOOLLOG | Directory of log file Default: %PLSLOG% |
| SPOOLMAXSCHEDULE | Maximum of simultaneous data transfers to the output devices.  hint - obsolete: The keyword is obsolete as of the version 4.6.1 of PLOSSYS netdome because then a separate thread is started for each transfer to the output device. |

Supported Output Method

Output Methods

At the moment, the following output methods are being supported:

- fastport
- hpnp
- ipp
- mtfilter
- mtlpr
- pjl
- xpp
- zpl

All output devices with these output methods can be processed with SEAL Spooler. In case of doubt, contact your Technical Project Manager at SEAL Systems.

port with mtlpr

As of version 1.1.3 of mtlpr, establishing the connection to the client is tried using the 721 to 731 ports, that means using a port according to the LPR protocol. Not before a connection cannot be established this way, a port is used not according to the LPR protocol.

Batch Controlling

.....
SEAL Spooler can be called via batch using the `spoolcli` program. The communication with the clients is established via TCP/IP. `spoolcli`

→ *Command Line Parameter*, page 235
.....

12.2 Structure of SEAL Spooler

in this chapter

This chapter deals with the following topics:

| Topic | Page |
|----------------------|------|
| Directory Tree | 231 |
| Jobs Directory | 232 |
| Queue Directory | 233 |
| Spool File Directory | 234 |

Directory Tree

.....
SEAL Spooler needs a separate directory tree. In \$SPOOLDATA, the following subdirectories are located: Directory Tree

- jobs
- queues
- spool files

→ *Jobs Directory*, page 232

→ *Queue Directory*, page 233


→ *Spool File Directory*, page 234

.....

Jobs Directory

jobs directory

The jobs directory contains files with the job data and the jobs list.


 example

Example of the content of the jobs directory:

| [Attribs] | [Size] | [Last Modified] | [Name] |
|-----------|--------|-------------------|---------|
| d----- | 0 | 04-11-07 12:28:55 | . |
| d----- | 0 | 04-11-07 12:28:55 | .. |
| ----a--- | 248 | 04-11-07 12:28:53 | 1.job |
| ----a--- | 247 | 04-11-07 12:28:53 | 2.job |
| ----a--- | 247 | 04-11-07 12:28:54 | 3.job |
| ----a--- | 248 | 04-11-07 12:28:54 | 4.job |
| ----a--- | 247 | 04-11-07 12:28:55 | 5.job |
| ----a--- | 57 | 04-11-07 12:28:55 | joblist |

joblist file

The job list is always named `joblist`. It contains the version number of the file format and the listing of all job IDs of all existent spool jobs.


 example

Example of a job list:

```
[Joblist]
Version=1
[Begin]
1
2
[End]
```

<jobid> file

For each job, SEAL Spooler creates a file named `<jobid>.job`. It contains the version number of the file format and all job-specific parameters.

 example

Example of a *.job file:


```
[SpoolJob]
Version = 1
JobId = 1
JobName = "pl000219_GKSM_DIN_A4_hoch"
Copy = "1"
LogFile = "d:\plossys\data\plotserv\associated\pl000219.log"
NoOfSpoolfiles = 1
FileState = Closed
PrintState = Waiting
QueueName = "hp4050"
Timeout = -1
```


Queue Directory

.....
The queue directory contains the queue data and the queue list.

queue directory

Example of the contents of the queue directory:


 example

```
[Attribs]    [Size]    [Last Modified]  [Name]
d-----    0    04-11-07 12:28:54  .
d-----    0    04-11-07 12:28:54  ..
----a---    220    04-11-07 12:28:53  Q1.queue
----a---    220    04-11-07 12:28:54  Q2.queue
----a---    52    04-11-07 12:28:54  queuelist
```

.....
The list of the queue is always named queuelist. The file contains the version number of the file format and a listing of all queue names.

queuelist file

Example of the content of a queue list file:


 example

```
[QueueList]
  Version = 1
[Begin]
hp4050
[End]
```

.....
For each queue, SEAL Spooler creates a file with the name <queuename>.queue. It contains the version number of the file format and all queue-specific parameters.

*.queue file

Example of a *.queue file:


 example

```
[Queue]
  Version = 1
  QueueName = "hp4050"
  MaxQueueLength = 5
  OutputAddress =
  OutputType = mtfilter
  OptionKey1 = "overwrite"
  OptionValue1 = "yes"
  QueueState = Stopped
  StopType = DoNotStop
```

Spool File Directory

spoolfiles direc-
tory

The spoolfiles directory contains the spool files, named <jobid>_<consecutive.number>.spool. The consecutive number starts with 0 and is continuously counted up.

 example

Example of the content of the spoolfiles directory:

```
[Current Directory] "D:\am_420\data\sealspooler\spoolfiles"
[Attribs]          [Size]      [Last Modified]  [Name]
d-----          0  04-11-07 12:28:55  .
d-----          0  04-11-07 12:28:55  ..
----a---         20  04-11-07 12:28:50  1_0.spool
----a---         20  04-11-07 12:28:50  2_0.spool
----a---         20  04-11-07 12:28:50  3_0.spool
----a---         20  04-11-07 12:28:50  4_0.spool
----a---         20  04-11-07 12:28:50  5_0.spool
```

12.3 Command Line Parameter

The command line parameters are used for the batch controlling.

purpose

A command line parameter is optional and overwrites the correspondent environment variable.



Caution

The program has the following mandatory parameters:

mandatory parameter

| Mandatory Parameter | Page |
|------------------------------------|------|
| -data Directory of the Spool Files | 236 |
| -log Directory of the Log Files | 237 |
| -stat Directory of the Lock Files | 238 |
| -tmp Directory of Temporary Files | 239 |
| -url URL and Port of SEAL Spooler | 240 |

The program has the following optional parameters:

optional parameter

| Optional Parameter | Page |
|--|------|
| -cleanup Deleting the Spool Files | 241 |
| -defmaxqueuelength Maximum Output Queue Length | 242 |
| -h Usage | 243 |
| -longqueuetimeout Timeout of Errors | 244 |
| -maxschedule Maximum Number of Files | 245 |
| -maxpjlschedule Maximum Number of Simultaneous PjL Output Jobs | 246 |
| -shortqueuetimeout Timeout for Recoverable Errors | 247 |
| -timeout Deletion of Incomplete Jobs | 248 |
| -useip Using the IP Address | 249 |


-data Directory of the Spool Files

purpose

.....
The parameter specifies the directory of the spool files.
.....

type

.....
The parameter is mandatory.
.....

 example

.....
The directory of the spool files is set to tmp.
sealspooler -data tmp
.....

parameter

.....
You can specify the following parameters:
.....

| Parameter | Description |
|------------|------------------------------|
| <i>dir</i> | Directory of the spool files |

default

.....
There is no default.
.....

-log Directory of the Log Files

.....
The parameter specifies the directory of the log files.


purpose

.....
The parameter is mandatory.

type

.....
The log files are created in the tmp directory:

```
sealspooler -log tmp
```

 example

.....
You can specify the following parameters:

parameter

| Parameter | Description |
|------------|----------------------------|
| <i>dir</i> | Directory of the log files |

.....
There is no default.

default


-stat Directory of the Lock Files

purpose

.....
The parameter specifies the directory of the lock files.
.....

type

.....
The parameter is mandatory.
.....

 example

.....
The lock file is created in the `tmp` directory:
`sealspooler -stat tmp`
.....

parameter

.....
You can specify the following parameters:
.....

| Parameter | Description |
|------------|-----------------------------|
| <i>dir</i> | Directory of the lock file. |

default

.....
There is no default.
.....

-tmp Directory of Temporary Files

.....
The parameter specifies the directory of the temporary files.


purpose

.....
The parameter is mandatory.

type

.....
The temporary files are created in the temp directory.

sealspooler -tmp temp

 example

.....
You can specify the following parameters:

parameter

| Parameter | Description |
|------------|-----------------------------------|
| <i>dir</i> | Directory of the temporary files. |

.....
There is no default.

default


-url URL and Port of SEAL Spooler

purpose

.....
The parameter specifies the URL and the port of SEAL Spooler.
.....

type

.....
The parameter is mandatory.
.....

 example

.....
The URL and the port are set:
`sealspooler -url server_name:7115`
.....

parameter

.....
You can specify the following parameters:

| Parameter | Description |
|--------------------|---|
| <i>server:port</i> | URL with server and port of SEAL Spooler. |

default

.....
There is no default.
.....

-cleanup Deleting the Spool Files


.....
All spool files are deleted. The output system starts with a clean system.

purpose

.....
This parameter is optional.

type

.....
All spool files are deleted with the start of SEAL Spooler.

 example

`sealspooler -cleanup`

.....
There is no default.

default

-defmaxqueuelength Maximum Output Queue Length

purpose

.....
The parameter specifies the length of the output queue.
.....

type

.....
This parameter is optional.
.....



example

.....
The maximum length of the output queue is set to 5 output jobs.

```
sealspooler -defmaxqueuelenght 5
```

.....

default

.....
Default is 1.
.....

-h Usage

.....
The parameter outputs the usage message.

purpose

.....
This parameter is optional.

type

.....
sealspooler -h

 example

.....

-longqueuetimeout Timeout of Errors

purpose

.....
The parameter specifies the timeout for errors in seconds.
.....

type

.....
This parameter is optional.
.....



example

.....
The timeout for errors is set to 6 minutes.

```
sealspooler -longqueuetimeout 360
```

.....

default

.....
Default is 299.
.....

-maxschedule Maximum Number of Files

.....
The parameter specifies the maximum of files that can be simultaneously transferred to the output device. purpose

.....
The parameter is obsolete as of the version 4.6.1 of PLOSSYS netdome because then a separate thread is started for each transfer to the output device. type

.....

-maxpjlschedule Maximum Number of Simultaneous PJI Output Jobs

purpose

.....
The parameter specifies the maximum of PJI files that can be simultaneously transferred to the output device.
.....

type

.....
The parameter is obsolete as of the version 4.6.1 of PLOSSYS netdome because then a separate thread is started for each transfer to the output device.
.....

-shortqueuetimeout Timeout for Recoverable Errors


.....
The parameter specifies the timeout for recoverable errors in seconds.

purpose

.....
This parameter is optional.

type

.....
The timeout for recoverable errors is set to 6 minutes.

 example

`sealspooler -lshortqueuetimeout 360`

.....
Default is 29.

default

-timeout Deletion of Incomplete Jobs

purpose

.....
The parameter specified the time interval after that incomplete output jobs of the output queue are deleted.
.....

type

.....
This parameter is optional.
.....



example

.....
The time interval is set to 3 hours.

```
sealspooler -timeout 10800
```

.....

parameter

You can specify the following parameters:

| Parameter | Description |
|------------|---|
| <i>sec</i> | The time interval for the timeout specified in seconds. |

.....

default

.....
Default is 7200 seconds.
.....

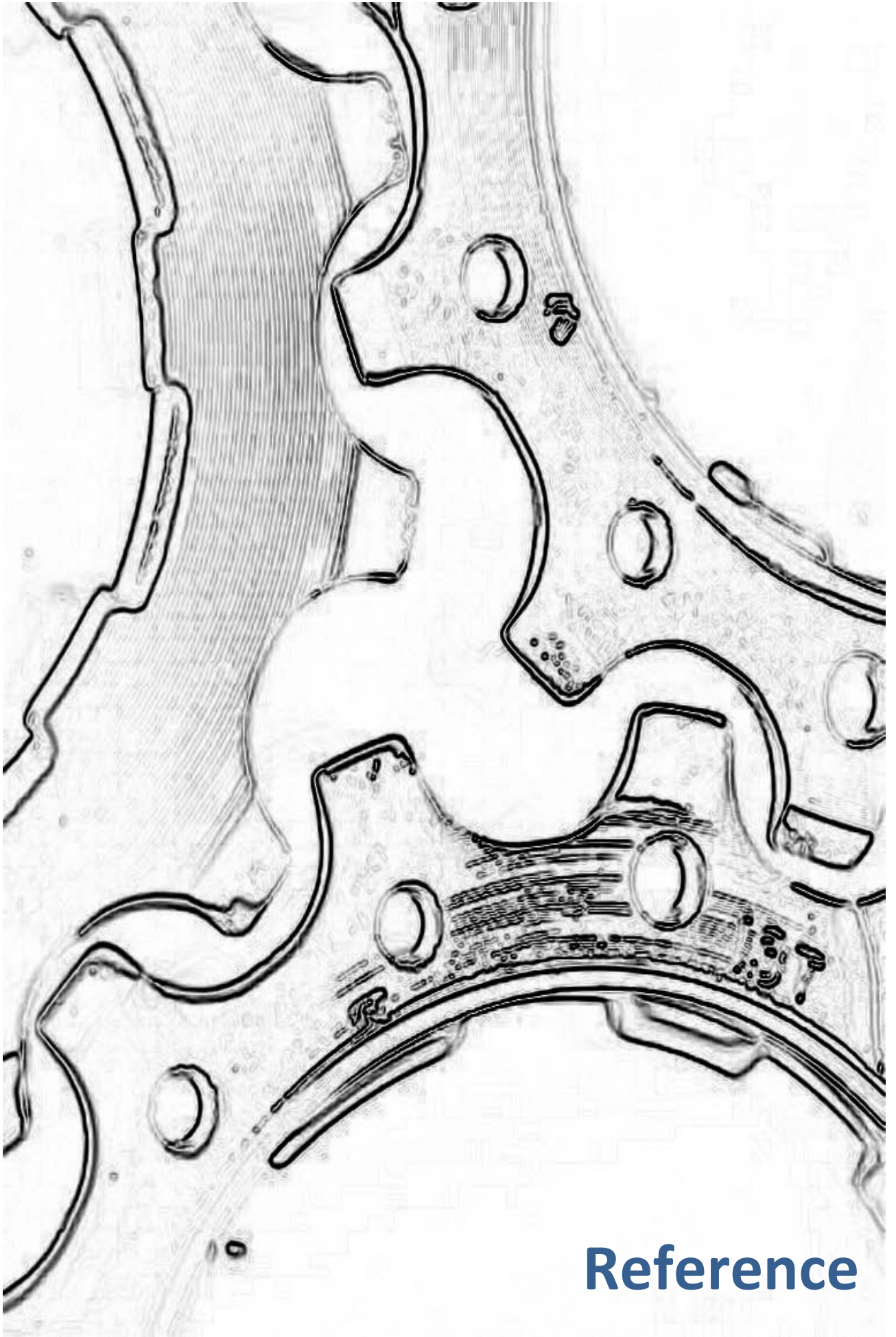
-useip Using the IP Address

.....
The parameter specifies that the evaluated IP address is used instead of the name of the output device. purpose

.....
This parameter is optional. type

.....
The IP address of the output device is used.  example
`sealspooler -useip`

.....
There is no default. default



Reference

13 Configuration Files - PLOSSYS netdome Configuration

.....
This chapter describes the following configuration file:

in this chapter

| Configuration File | Page |
|--------------------------------|------|
| Configuration File plossys.cfg | 254 |

.....

13.1 Configuration File plossys.cfg

introduction

This chapter contains the reference information about the plossys.cfg configuration file.

location

The configuration file is located in the server\p1otserv directory on the server.

The following chapter deals with the following sections of the configuration file:

| Topic | Page |
|----------------------|------|
| [INFOSERVER] Section | 255 |
| [JBOSS] Section | 259 |
| [KNET] Section | 260 |
| [LICENSE] Section | 262 |
| [OCON] Section | 266 |
| [ODM] Section | 267 |
| [SPOOLER] Section | 269 |
| [SYSTEM] Section | 271 |
| OutputDevice Section | 286 |

[INFOSERVER] Section

.....
The [INFOSERVER] section contains configuration data concerning the communication of Infoserver with PLOSSYS netdome manager.

.....
This chapter describes the keywords available for the [INFOSERVER] section.

keywords

.....
CHECK_FAILOVER_TIME specifies the time interval after which it is checked if an output queue is to be redirected.

CHECK_FAILOVER
_TIME

The keyword is optional.

Available values: Integer [1 to 65535] in seconds

- *seconds*
Time interval

Default: 30

.....
CONNECT_TO_IC_TIMEOUT specifies the time interval after which a new connection is established between Infoserver or Infoclient and the manager.

CONNECT_
TO_IC_TIMEOUT

The keyword is optional.

Available values: Integer in seconds

- *seconds*
Time interval

Default: 4

.....
ENABLE_SRCAPPL specifies if the header item PLS_SRCAPPL is evaluated.

ENABLE_SRCAPPL

The keyword is optional.

Available values: Boolean

- Y
The header item is evaluated.
- N
The header item is not evaluated.

Default: Y

→ [PLOSSYS_PARAM_TEC]

 reference

..... *To be continued*

[Infoserver] Section, Continuation

EXTERNAL_STATION_UPDATE_TIME specifies the time interval after which the states of the external stations, for example, manager, gates, JBoss, ODM agents from Infoserver. The states are passed to the PostgreSQL database and stored there. These can be displayed in the station view in PLOSSYS OCON.

The keyword is optional.

Available values: Integer in seconds

- *seconds*
Time interval

Default: 120

INFOCLIENT_USER

INFOCLIENT_USER specifies the user name transferred to Infoclient.

As of version 4.5.1, the keyword is obsolete. The keyword has to exist due to compatibility reasons.

The keyword is mandatory.

Available values: String

- *username*

Default: none

JOB_POS_UPDATE_TIME

JOB_POS_UPDATE_TIME specifies the time interval after which the position of the output job in the queue is recalculated for the display in PLOSSYS OCON.

The keyword is optional.

Available values: Integer in seconds

- *number*
Time interval
- \emptyset
The position of the output job in the queue during processing is not recalculated.

Default: \emptyset

..... *To be continued*

[Infoserver] Section, Continuation

.....
MSG_TO_ALL_IC specifies if a message is sent to all connected Infoclients if the output job is erroneous.

MSG_TO_ALL_IC

The keyword is optional.

Available values: Boolean

- Y
When an output job is erroneous, a message is sent to all connected Infoclients.
- N
When an output job is erroneous, a message is only sent to Infoserver for the first output job in the queue.

Default: N

.....
MOVE_ABORTED_JOB specifies the status that an aborted output job will take after a restart of PLOSSYS netdome.

MOVE_ABORTED_JOB

The keyword is optional.

Available values: Boolean

- ERROR
- EXECUTED

Default: EXECUTED

.....
ODM_COMPARE_URL specifies if Infoserver compares the URL of the ODM server which sends the output job with the URL configured at the output device during a status update of the output device. In case of discrepancy, a warning is written into the log file of Infoserver. Thus, configuration errors may be avoided when several ODM servers are in use.

ODM_COMPARE_URL

The keyword is optional.

Available values: Boolean

- Y
The URL is verified during a status update.
- N
The URL is not verified during a status update.

Default: Y

..... *To be continued*

[Infoserver] Section, Continuation

ODM_START_PORT

ODM_START_PORT specifies the port number for the communication with Infoserver. The port is opened by Infoserver and monitors if ODM is registering for printer monitoring.

The keyword is optional.

Available values: Integer

- *portnumber*

Default: 16000+INSTALL_NUMBER



related topics

→ *INSTALL_NUMBER*, page 263



reference

→ [ODM_TEC]

WATCHDOG_MAIL

WATCHDOG_MAIL specifies the e-mail address to which the ODM watchdog process sends an e-mail in the event of an error. The process checks the states of the ODM server processes and the ODM agents.

The keyword is optional.

Available values: String

- *“mailserver/operator@sealystems.de“*

Default: none

[JBoss] Section

.....
The [JBoss] section contains the configuration data for JBoss.
.....

This chapter describes the keywords.

keywords

.....
RMI_PORT specifies the port of the communication protocol used for calls between Java objects.

RMI_PORT

The keyword is mandatory.

Available values: Integer

- *portnumber*

Default: 1098

.....
JNP_PORT specifies the port of the Java naming and the directory service.


JNP_PORT

The keyword is mandatory.

Available values: Integer

Default: *RMI_PORT*+1

→ *RMI_PORT*, page 259

 related topics

[KNET] Section

.....
The [KNET] section contains information about the configuration of kNet, which is an internal communication protocol of PLOSSYS netdome an.
.....

keywords This chapter describes the keywords.
.....

FRANS3_CFG_FILE FRANS3_CFG_FILE specifies the configuration file `frans3.cfg`. The configuration file contains a white list and rules which configure the access via Frans3 and kNet. The file is imported during runtime. Changes in the file are immediately active. Denied access attempts are logged in the `%PLSDATA%\log\knetp1ot.log` and `%PLSDATA%\log\frans3p1ot.log` files.

The keyword is mandatory.

Available values: String

Default: `%PLSPLS%\frans3.cfg`
.....

FRANS3_COMPRESSION FRANS 3_COMPRESSION specifies the compression method for the file transfer with the Frans 3 server.

The keyword is mandatory.

Available values: String

- NONE
The file is transferred without compression.
- DEFLATE_SPEED
The file is transferred at the highest possible speed and compression.
- DEFLATE_BEST
The file is transferred with the maximum possible compression.

Default: DEFLATE_SPEED
.....

FRANS3_CRYPT FRANS3_CRYPT specifies if the file transfer with Frans3 server is encrypted.

The keyword is optional.

Available values: Boolean

- Y
The file transfer is encrypted.
- N
The file transfer is not encrypted.

Default: N
.....

To be continued

[KNET] Section, Continuation

.....
FRANS3_SERVER_PORT specifies the port to communicate with the Frans3 clients via the Frans3 server.


FRANS3_SERVER
_PORT

The keyword is optional.

Available values: Integer

Default: *KNET_SERVER_PORT+1*

→ *KNET_SERVER_PORT*, page 261

 related top-
ics

.....
FRANS3_WRITE_JOB_LOG specifies if an job-specific log file of the PLOSSYS netdome gates is created in the %PLSDATA%\io directory.

FRANS3_WRITE_
JOB_LOG

As of PLOSSYS netdome 4.4.0, the input stations are configured via PLOSSYS netdome Settings. The configuration via *plossys.cfg* (gate method) should now be used only in exceptional cases.

The keyword is mandatory.

Available values: Boolean

- Y
A job-specific log file is written.
- N
No job-specific log file is written.

Default: Y

.....
KNET_SERVER_PORT specifies the TCP/IP port for the communication via kNet.


KNET_SERVER
_PORT

The keyword is mandatory.

Available values: Integer

Default: *7000+INSTALL_NUMBER*

→ *INSTALL_NUMBER*, page 263

 related top-
ics


.....
KNET_SERVER_NODE specifies the server where PLOSSYS netdome is installed. The value has to be identical to the value of the *NODE_NAME* keyword.

The keyword is mandatory.

Available values: String64

Default: none

→ *NODE_NAME*, page 264

 related top-
ics

[LICENSE] Section

| | |
|-----------------|--|
| contents | <p>.....</p> <p>The [LICENSE] section contains the license information.</p> <p>.....</p> |
| keywords | <p>.....</p> <p>This chapter describes the keywords.</p> <p>.....</p> |
| CHECKSUM | <p>.....</p> <p>CHECKSUM specifies the checksum for the licensed options.</p> <p>The keyword is mandatory.</p> <p>Available values: Integer</p> <p>Default: none</p> <p>.....</p> |
| COMPANY_LICENSE | <p>.....</p> <p>COMPANY_LICENSE specifies if the PLOSSYS netdome installation is company-wide or bound to the server name.</p> <p>The keyword is mandatory.</p> <p>Available values: Boolean</p> <ul style="list-style-type: none"> • Y The license is valid company-wide. • N The license is bound to the server name. <p>Default: N</p> <p>.....</p> |
| CUSTOMER_NAME | <p>.....</p> <p>CUSTOMER_NAME specifies the customer name.</p> <p>The keyword is mandatory.</p> <p>Available values: String32</p> <p>Default: none</p> <p>..... <i>To be continued</i></p> |

[LICENSE] Section, Continuation

.....
CONSOLE_ENABLE specifies if the console is displayed.

CONSOLE_ENABLE

As of version 4.3.0, the keyword is obsolete. The keyword has to exist due to compatibility reasons and must not be modified.

The keyword is mandatory.

Available values: Boolean

- Y

Default: Y

.....
EXPIRATION_DATE specifies the date when the license will expire. Without a valid license, PLOSSYS netdome is not ready for use. For expanding your license, contact your Technical Project Manager at SEAL Systems.

EXPIRATION_DATE

The keyword is mandatory.

Available values: String

- *dd.mm.yyyy*

Default: 31.12.2032

.....
INSTALL_NUMBER specifies the installation number. The installation number is also used for the evaluation of the port used for the communication via KNet.


INSTALL_NUMBER

The keyword is mandatory.

Available values: Integer

Default: none

→ *KNET_SERVER_PORT*, page 261

 related topics

.....
LICENSED_PLOTTERS specifies the number of the licensed and therefore available output device queues. The number of the licensed output queues is changed via the `sysinit` program. The license must be updated. Only your Technical Project Manager at SEAL Systems can re-calculate the license.

LICENSED_PLOTTERS

The keyword is mandatory.

Available values: Integer

Default: 20

..... *To be continued*

[LICENSE] Section, Continuation

MIRROR_OPTION

.....
MIRROR_OPTION specifies if the mirror functionality is supported. The mirrored output is possible with all vector outputs, also in the optimization. With the raster output this settings have no effect.

The keyword is optional.

Available values: Boolean

- Y
The document is mirrored if supported by the output driver.
- N
The mirror functionality is not available.

Default: N

.....

MOTIF_OPTION

MOTIF_OPTION specifies how the console is displayed.

As of version 4.5.3, the keyword is obsolete. The keyword has to exist due to compatibility reasons and must not be modified.

The keyword is mandatory.

Available values: Boolean

- Y

Default: Y

.....

NODE_NAME

NODE_NAME specifies the name of the server where the PLOSSYS netdome is running.

The keyword is mandatory.

Available values: String64

Default: none

.....

PREVIEW_OPTION

PREVIEW_OPTION specifies if a preview is available.

As of version 4.5.3, the keyword is obsolete. The keyword has to exist due to compatibility reasons and must not be modified.

The keyword is mandatory.

Available values: Boolean

- Y

Default: Y

.....

To be continued

[LICENSE] Section, Continuation

.....
SETCOLL_OPTION specifies if several jobs are combined to a set collation.

SETCOLL_OPTION

The option is licensed. Contact your Technical Project Manger at SEAL Systems.

The keyword is mandatory.

Available values: Boolean

- Y
Set collations are used.
- N
No set collations are used.

Default: Y

.....
SPLIT_OPTION specifies if oversized documents can be split (splitting). The oversized documents have to be manually merged after output.

SPLIT_OPTION

The option is licensed. Contact your Technical Project Manger at SEAL Systems.

The keyword is mandatory.

Available values: Boolean

- Y
Oversized documents can be split.
- N
Oversized documents cannot be split.

Default: N

.....

[OCON] Section

contents

The [OCON] section contains the settings for the connection between PLOSSYS OCON and Infoserver.



reference

→ [OCON_ADM]

→ [INFOCLT_TEC]

keywords

This chapter describes the keywords.

DB_HOST_AS_IP

DB_HOST_AS_IP specifies if the IP address or the server name of PLOSSYS OCON is used for connecting to the PostgreSQL database.

The keyword is optional.

Available values: Boolean

- N
The server name is used.
- Y
The IP address is used.

Default: N

OCON_URL

OCON_URL specifies the server name and the port number of Infoserver to which PLOSSYS OCON connects. The server name has to be identical to the value of the NODE_NAME keyword.

The keyword is optional.

Available values: String

- *servername:knet_portnumber+2*

Default: *NODE_NAME:KNET_SERVER_PORT+2*



related topics

→ *NODE_NAME*, page 264

→ *KNET_SERVER_PORT*, page 261

USE_DATABASE

USE_DATABASE specifies if the job and processing data is written to the PostgreSQL database.

As of version 4.5.3, the keyword is obsolete. The keyword has to exist due to compatibility reasons and must not be modified.

The keyword is mandatory.

Available values: Boolean

- Y

Default: Y

[ODM] Section

.....
The [ODM] section contains settings for the connection between PLOSSYS netdome and ODM.

contents

→ [ODM_TEC]

 reference

.....
ODM_URL specifies the server name and the port of the ODM server when using an ODM server.

ODM_URL

The keyword is mandatory.

Available values: String: Integer


- *servername*:16126

Default: $\$NODE_NAME:16000+INSTALL_NUMBER+1$

→ *INSTALL_NUMBER*, page 263

→ *NODE_NAME*, page 264

→ *ODM_URL_n*, page 267

 related topics

.....
ODM_URL_n specifies the server name and port of the ODM server when multiple ODM servers are used. The suffix n specifies the number of ODM servers. The keyword has to be specified for each ODM server.

ODM_URL_n

The keyword is mandatory.

Available values: String: Integer


- *odmsservername*:16772

Default: $\$NODE_NAME:16000+INSTALL_NUMBER+1$

→ *INSTALL_NUMBER*, page 263

→ *NODE_NAME*, page 264

→ *ODM_URL*, page 267

 related topics

.....
ACTIVE_SPOOLFILE_TIMEOUT specifies the maximum amount of time that Infoserver waits for an ODM response. If there is no reply within this time interval, the output job gets the ERROR status.

ACTIVE_SPOOLFILE_TIMEOUT

The keyword is optional.

Available values: Integer [1 to 360000] in seconds

- *seconds*
Time interval

Default: 360000

..... *To be continued*

[ODM] Section, Continuation

SNMP_AGENT_
PROCESSES

.....
SNMP_AGENT_PROCESSES specifies the maximum number of processes that are started for the agent.

The keyword is optional.

Available values: Integer

Default: 4
.....

[SPOOLER] Section

.....
The [SPOOLER] section contains the configuration data for SEAL Spooler.

contents

.....
This chapter describes the keywords.

keywords

.....
SPOOLER_URL specifies the name of the server where Infoserver is installed and the port number with which SEAL Spooler connects to Infoserver. The server name has to be identical to the value of the NODE_NAME keyword.

SPOOLER_URL

The keyword is optional.

Available values: String

- `servername:knet_portnumber+4`


Default: `NODE_NAME:KNET_SERVER_PORT+4`

→ `INSTALL_NUMBER`, page 263

→ `NODE_NAME`, page 264

→ `KNET_SERVER_PORT`, page 261

→ `USE_SPOOLER`, page 388

 related topics

.....
MAXSCHEDULE specifies the maximum number of output jobs that can be transferred to the output device simultaneously.

MAXSCHEDULE

The keyword is obsolete as of the version 4.6.1 of PLOSSYS netdome because then a separate thread is started for each transfer to the output device.

 hint

.....
MAXPJLSCHEDULE specifies the number of simultaneous PJJ transfers. A transfer via PJJ blocks one of the transfer processes until the complete output of a paper.

MAXPJLSCHEDULE

The value for MAXPJLSCHEDULE should be less than MAXSCHEDULE, otherwise the spooler could be completely blocked by output processes and printer failures.

Other transmission methods, for example, HPNP, MTFILTER or LPR, block a transfer process only during the transfer to the output device and are immediately available again for other jobs.

The keyword is obsolete as of the version 4.6.1 of PLOSSYS netdome because then a separate thread is started for each transfer to the output device.

 hint

..... *To be continued*

[SPOOLER] Section, Continuation

TIMEOUT

.....
TIMEOUT specifies the time interval after which incomplete jobs are deleted.

The keyword is mandatory.

Available values: Integer in seconds

- *seconds*
Time interval


Default: 7200

.....

[SYSTEM] Section

.....
The system section, [SYSTEM], contains the configuration settings for the complete PLOSSYS netdome system. contents

.....
This chapter describes the keywords. keywords

.....
Keywords that apply to all output devices can be configured in the system section. If the keyword is also set in the output device section, this takes priority over the one in the system section.  hint

.....
VERSION specifies the version number of the installed PLOSSYS netdome system. VERSION

The keyword is mandatory.

Available values: Integer

- x.x.x

Default: *current_version*

.....
DEF_SCHEDULE_INACTIVE specifies the amount of time after which an inactive output driver process is stopped. The keyword is valid for all output driver processes of the system. DEF_SCHEDULE_INACTIVE

The keyword is optional.


Available values: Integer

- 0
The keyword is not considered.

Default: 0

→ *SCHEDULE_TYPE*, page 378

→ *SCHEDULE_INACTIVE*, page 378

 related topics

..... *To be continued*

[SYSTEM] Section, Continuation

DEF_SCHEDULE_
MAXJOBS

.....
DEF_SCHEDULE_MAXJOBS specifies the number of jobs after which a process is restarted. The keyword is valid for all output driver processes of the system.

The keyword is optional.

Available values: Integer

- 0
The keyword is not considered.

Default: 0



related top-
ics

→ *SCHEDULE_TYPE*, page 378

→ *SCHEDULE_MAXJOBS*, page 379

DEF_SCHEDULE_
MAXLIVETIME

.....
DEF_SCHEDULE_MAXLIVETIME specifies the maximum lifetime of an output driver process. The keyword is valid for all output driver processes of the system.

The keyword is optional.

Available values: Integer in seconds

- 0
The keyword is not considered.

Default: 0



related top-
ics

→ *SCHEDULE_TYPE*, page 378

→ *SCHEDULE_MAX_LIVETIME*, page 379

..... *To be continued*

[SYSTEM] Section, Continuation

.....
DEF_SCHEDULE_TYPE specifies the system-wide scheduling behavior for all output devices.

DEF_SCHEDULE_
TYPE

The keyword is optional.


Available values: Enumeration

- NO
The output driver is always started.
- FULL
The output driver is started when an output job is to be output. The SCHEDULE_MAXPROCESS keyword specifies the maximum of simultaneously started output driver processes. The processes of the various output devices are thereby started sequentially and thus independently of the number of jobs in the respective output queue, according to a round robin method.

Default: NO

→ SCHEDULE_MAXPROCESS, page 281

→ SCHEDULE_TYPE, page 378

 related topics

.....
DEFAULT_GATE_USER_HOME specifies the absolute path of the home directory for PLOSSYS netdome.

DEFAULT_GATE_
USER_HOME

As of PLOSSYS netdome 4.4.0, the input stations are configured via PLOSSYS netdome Settings. The configuration via plossys.cfg (gate method) should now be used only in exceptional cases.

The keyword is mandatory.

Available values: String255

- *absolute_path*

Default: /plossys

.....
GATE_USER specifies the user name of the gate. The keyword applies to all Gate sections for which the keyword is not set.

GATE_USER

As of PLOSSYS netdome 4.4.0, the input stations are configured via PLOSSYS netdome Settings. The configuration via plossys.cfg (gate method) should now be used only in exceptional cases.

The keyword is mandatory.

Available values: String

- *gate_user*

Default: plossys

..... *To be continued*

[SYSTEM] Section, Continuation

DEFAULT_ PRIORITY

.....
 DEFAULT_PRIORITY specifies the default priority of a document. Documents with a higher priority are given preference concerning the order of output. If the documents are to be nested next to one another for reasons of paper optimization, they has to have the priority 0 or 1.

The keyword is mandatory.

Available values: Integer [0,...9]

Default: 0

FORMAT_ DEFINITIONS

.....
 FORMAT_DEFINITIONS specifies the display names of the scaling in PLOSSYS OCON. The names can be used instead of the numeric values in the job header for the keyword PLS_PLOTSCALE.

The keyword is mandatory.

Available values: List of String20 in meters

- *format_name1 format_name2 ...*
The paper length and width have to be specified for each display name.
- *format_name height width*

Default: Setting in plossys.cfg

example

Extract from plosss.cfg:

```

FORMAT_DEFINITIONS      DIN_A0 DIN_A1 DIN_A2 DIN_A3 MAX_A3 SW_A4
DIN_A0  1.189  0.841
DIN_A1  0.841  0.594
DIN_A2  0.594  0.420
DIN_A3  0.420  0.297
MAX_A3                                0.4200.297
SW_A4  0.297  0.210
  
```

hint

MAX_Ax and SW_Ax with x=0 to 4 are special scaling specifications. With MAX_Ax all documents are output in their original size, as long as they do not exceed the given maximum size. All larger documents are scaled to the specified maximum size.

example

For max. MAX_A3 is valid: A4=A4, A3=A3, A2=A3, A1=A3, A0=A3.

hint

With SW_Ax, all documents – with the exception of DIN A4 documents – are output one DIN size smaller, up to the specified threshold.

example

For threshold SW_A2 is valid: A4=A4, A3=A3, A2=A2, A1=A2, A0=A1

related topics

→ PLS_PLOTSCALE in [PLOSSYS_PARAM_TEC]

..... *To be continued*

[SYSTEM] Section, Continuation

.....
GATE_SECTIONS specifies the names of the pre processor gates. The names are used by PLOSSYS OCON while the output job is created in PLOSSYS netdome.

GATE_SECTIONS

As of PLOSSYS netdome 4.4.0, the input stations are configured via PLOSSYS netdome Settings. The configuration via plossys.cfg (gate method) should now be used only in exceptional cases.

The keyword is mandatory.


Available values: List of maximum 16 members with String14

- *gate_name1 gate_name2 ...*

A configuration section has to be specified for each name.


- GATE_*

Extract from plosss.cfg:

 example

```
[wingate]
GATE_NAME      "WIN-Gate"
GATE_NODE      $NODE_NAME
GATE_USER      plossys
GATE_PASSWD    plossys
GATE_USER_HOME %PLSROOT%
GATE_DIR       data/io/wingate
GATE_LOG_FILE  wingate.log
GATE_GRAPHCODES PDF          POSTSCRIPT
GATE_GRAPHEXT  ".pdf"         ".ps"
GATE_COMMENT   "PDF (*.pdf)" "PS2PDF (*.ps)"
GATE_DEFAULT_HDR pdf.hed    pdf.hed
GATE_BYPASS_MODE N          N
```

→ *GATE_USER*, page 273

 related topics

..... *To be continued*

[SYSTEM] Section, Continuation

DUPLEX_DEFAULT

.....

DUPLEX_DEFAULT specifies the orientation of the pages during duplex output.

The keyword is optional.

Available values: String

- LONG_SIDE
- SHORT_SIDE

Default: LONG_SIDE



related topics

→ *DUPLEX_GENERATE*, page 276

.....

DUPLEX_GENERATE

DUPLEX_GENERATE specifies if duplex printing is available.

The keyword is optional.

Available values: String

- NEVER
Duplex printing is never activated.
- EVER
Duplex printing is always activated.
- ALLOWED
Duplex printing is activated/deactivated via the header item PLS_DUPLEX.

Default: NEVER



related topics

→ *DUPLEX_DEFAULT*, page 276



reference

→ PLS_DUPLEX in [PLOSSYS_PARAM_TEC]

.....

MAIL_SCRIPT

MAIL_SCRIPT specifies the name of the script used to call the mail functionality. The script has to be located in the following directory:
server\plotserv\plotter

The keyword is mandatory.

Available values: String

- „sendmail.pl“

Default: none



related topics

→ *MAIL_TYPE*, page 277

.....

To be continued

[SYSTEM] Section, Continuation

.....
PLS_MAIL specifies under which circumstances an output job is sent as an e-mail. If the script specified as MAIL_SCRIPT exists, a mail is sent by executing the script. A mail is only sent to the sender of a document if the header item PLS_MAIL has been set to Y as well.

MAIL_TYPE


The keyword is mandatory.

Available values: Enumeration

- INFO
Messages about all activities are sent.
- WARNING
Messages in special situations are sent.
- ERROR
Messages about errors are sent.
- NO_MAIL
No messages are sent.

Default: NO_MAIL

→ MAIL_SCRIPT, page 276

 related topics

.....
MAINGATE_SLLEP_TIME specifies the time interval that the main gate waits after all output jobs have been processed and until it rechecks the directory for new output jobs.

MAINGATE_SLEEP_TIME

As of PLOSSYS netdome 4.4.0, the input stations are configured via PLOSSYS netdome Settings. The configuration via plossys.cfg (gate method) should now be used only in exceptional cases.

The keyword is mandatory.

Available values: Integer in seconds

Default: 2

.....
OUTPUT_PREVIEW specifies if white margins are displayed in the previewer.

OUTPUT_PREVIEW

The keyword is optional.

Available values: Enumeration

- WITHOUT_BORDER
Non-printable white borders are not visible while previewing.
- WITH_BORDER
Non-printable white borders are visible while previewing.

Default: WITHOUT_BORDER

..... *To be continued*

[SYSTEM] Section, Continuation

PAD_SYSTEM_VAR

.....

PAD_SYSTEM_VAR specifies the backup system. This setting is only evaluated by PAD. When importing plossys.cfg, the configuration tool writes this value, in our example SERVER1 with %SERVER1% as kNet server and %SERVER1_PORT% as kNet port, into global_pad.cfg. The actual values are specified in plossys.ini, for example, with SERVER1 = sea11in10 and SERVER1_PORT = 9192. This allows switching to a backup system simply by changing the values in plossys.ini, without reconfiguring PAD. This modification of plossys.ini when a backup system is activated is executed when PLOSSYS netdome is started if the file 004.variante.start is available in the server\plotserv\startstop directory.

The keyword is optional.

Available values: String

- *SERVER1*
Variable name designating the server

Default: none

PAP_FMT_TOLERAN_X

.....

PAP_FMT_TOLERAN_X specifies the tolerance for the paper format recognition in the X direction with regard to the sizes specified with FORMAT_DEFINITIONS. The paper size is specified in the statistics and system log file, as well as in PLOSSYS OCON.

The keyword is optional.

Available values: Float in meter

- 0.0005

Default: 0.0

PAP_FMT_TOLERAN_Y

.....

PAP_FMT_TOLERAN_Y specifies the tolerance for the paper format recognition in the Y direction with regard to the sizes specified with FORMAT_DEFINITIONS. The paper size is specified in the statistics and system log file, as well as in PLOSSYS OCON.

The keyword is optional.

Available values: Float in meter

- 0.0005

Default: 0.0

..... *To be continued*

[SYSTEM] Section, Continuation

.....
PLOTSERV_USER specifies the user name under which PLOSSYS netdome runs. The meta data is stored in the user directory. The user name is required as parameter for the INIT_SCRIPT in connection with remote output devices.


PLOTSERV_USER

The keyword is optional.

Available values: String

Default: plossys

→ *INIT_SCRIPT*, page 336

 related topics

.....
PLOTTER_SECTIONS contains a list of all installed output devices. For each output device listed here, a separate section has to exist where the output device is specified in detail.

PLOTTER_SECTIONS


The keyword is mandatory.

Available values: List of String29

- *printer1 printer2 printer3*
Names of the output device sections to be read


Default: none

For the output device name 29 characters are supported. The following characters are supported:

 hint - supported characters

- Letters from a to z and from A to Z
- Digits from 0 to 9
- Underscore _
- Colon :
- Hyphen -
- Dot .
- Plus +

→ *OutputDevice Section*, page 286

 related topics

..... *To be continued*

[SYSTEM] Section, Continuation

PLS_VARIANTE

PLS_VARIANTE specifies the name of the last active variant of a PLOSSYS netdome system.

The keyword is optional.

Available values: String

- `plossys\server\variant_name`
When using a reference/variant system, the name of the last active variant is entered. If this keyword exists, the system is a reference or variant system. When starting, the PLS_VARIANTE keyword is updated according to `004.variante.start` in `server\plotserv\startstop` (short `sc`) if the last active variant and the chosen variant differ. The name of the variant to start is explicitly set with the PLS_VARIANTE environment variable or results from `username/server name`.
Each variant has its own section, which is analyzed when starting PLOSSYS netdome. The keywords in these sections are only used if they are specified in the system section. Additionally, the [DEFAULT_VARIANTE] section contains general settings for all variants.

Default: none

..... *To be continued*

[SYSTEM] Section, Continuation

.....
SEAL_SYSTEMNAME specifies an alternate server name for the PLOSSYS netdome system.

SEAL_SYSTEMNAME

In order to let a PLOSSYS netdome system be monitored by System Monitoring, the PLOSSYS netdome system has to be specified via SEALCC and further via System Status. These settings are stored in the PostgreSQL database. System Monitoring tries to evaluate the correspondent PLOSSYS netdome system with its ID in the PostgreSQL database by means of the settings in Server.

In some cases, System Monitoring cannot resolve the value in Server. Then, the PostgreSQL database cannot be accessed.

In this case, an alternative server name has to be specified in the system section with the SEAL_SYSTEMNAME keyword. When starting a SEAL shell, the 200.read_plossyscfg.pl script reads the settings in the system section of plossys.cfg and sets the SEAL_SYSTEMNAME environment variable to the specified value.

The SEAL_SYSTEMNAME environment variable is also used by the Nagios plug-in script, sealplugin.pl, for evaluating the local PLOSSYS netdome system.

The keyword is relevant in the context of System Status.



The keyword is optional.

Available values: String

- *servername*
Alternative name of the PLOSSYS netdome system

Default: none

.....
SCHEDULE_MAXPROCESS specifies the number of concurrent output device processes with scheduling behavior FULL.

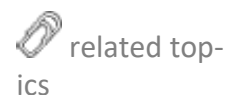
SCHEDULE_MAXPROCESS

The keyword is optional.

Available values: Integer

Default: 1000

→ *SCHEDULE_TYPE*, page 378



..... *To be continued*

[SYSTEM] Section, Continuation

SPLITTINGOFF_
FORMAT

SPLITTINGOFF_FORMAT specifies the format of the list items on missing sheets. The keyword is optional. Set collations that are output to a pool device can be split among several output devices. The set with missing sheets can be output to a primary pool device in order to facilitate the re-insertion of the redirected set members. These missing sheets contain a list of the set members that are currently redirected to other output devices. The contents of these list items can be specified with SPLITTINGOFF_FORMAT. The specification corresponds to the one of the flag page.



hint

For SPLITTINGOFF_FORMAT, only header items may be specified!

The keyword is optional.

Available values: String511

Default: none

STATISTICS_
FORMAT

STATISTICS_FORMAT specifies the contents of the statistics file. The specification corresponds to the one of the flag page.

The keyword is optional.

Available values: String511



example:

The specification of STATISTICS_FORMAT:

```

,,(#$06PLO_PLSNR) $.7PLS_PLOTID $.6PLS_SRCNODE ,,\
,,$.6 PLS_USERNAME\n"\
,,$.5PLS_PLOTTYPE $.1PLS_PLOTPAPER $.1PLS_PLOTPEN ,,\
,,$02PLS_PLOTCOPY $4.3PLO_SIZEX $4.3PLO_SIZEY ,,\
,,$PLO_DINFORMAT $PLS_SCALE_TYPE $4.3PLS_PLOTSCALE ,,\
,,$04PLO_ITEMS $05PLO_VECTORS $03PLO_BYTES \n"\
,,$PLO_PLOTTER $.19PLO_START $.19PLO_END"
,,(#$06PLO_PLSNR) $.7PLS_PLOTID $.6PLS_SRCNODE ,,\
,,$.6 PLS_USERNAME\n"\
,,$.5PLS_PLOTTYPE $.1PLS_PLOTPAPER $.1PLS_PLOTPEN ,,\
,,$02PLS_PLOTCOPY $4.3PLO_SIZEX $4.3PLO_SIZEY ,,\
,,$PLO_DINFORMAT $PLS_SCALE_TYPE $4.3PLS_PLOTSCALE ,,\
,,$04PLO_ITEMS $05PLO_VECTORS $03PLO_BYTES \n"\
,,$PLO_PLOTTER $.19PLO_START $.19PLO_END"

```

Item in the statistics file:

```

(#001849) pentest seal01 brende
GKSMS P K 00 0.21 0.287 A4 MAXSCL 1.00 0098 00715 003
laserjet 01.01.1999 09:08:08 01.01.1999 09:08:10
(#001850) queente seal01 brende
GKSMS P K 01 0.380 0.231 A3 MAXSCL 1.000 4308 12582 332
laserjet 1.01.1999 09:08:11 1.01.1999 09:08:28

```



related top-
ics

→ *FP_GENERATE*, page 322

..... *To be continued*

[SYSTEM] Section, Continuation

.....
STATISTICS_OUTPUT_CODEPAGE specifies the character encoding of the statistics file.

STATISTICS_
OUTPUT_CODEPAGE

The keyword is mandatory.

Available values: String

- LATIN1
The statistics file is written in LATIN1 character encoding.
- UTF-8
The statistics file is written in UTF-8 character encoding.

Default: LATIN1

.....
STRICT_JOB_CONFIRMATION

STRICT_JOB_
CONFIRMATION

The keyword is relevant in the context of ODM.



→ [ODM_TEC]



.....
SYS_PASSWORD is not evaluated. The keyword has to exist due to compatibility reasons.

SYS_PASSWORD

The keyword is mandatory.

Available values: String20

Default: none

.....
THUMBNAIL_SIZE specifies the size of the thumbnails displayed in PLOSSYS OCON in pixel. The specified value is used as the pixel size for each page. Thus, the thumbnails are always displayed as squares.

THUMBNAIL_SIZE

The keyword is optional.

Available values: Integer

Default: 100

..... *To be continued*

[SYSTEM] Section, Continuation

USE_USERGROUP


USE_USERGROUP specifies the monitoring of the user groups.

The keyword is mandatory.

Available values: Boolean

- N
User groups are not monitoring during output.
- Y
User groups are monitoring during output.

Default: N

 related topics

→ *USERGROUP_DEFAULT*, page 284

USERGROUP_DEFAULT


USERGROUP_DEFAULT specifies the behavior if the job is not assigned to a user group or the user group of the output device is not allowed or prohibited.

The keyword is mandatory.

Available values: Enumeration

- PLOT
The job is output without specifying the user group.
- ERROR
The job is entered in the list of erroneous jobs.

Default: PLOT

 related topics

→ *USE_USERGROUP*, page 284

QSTAT_CHANGED_CALL

QSTAT_CHANGED_CALL specifies the script or program that exchange the load information between the systems with load balancing.

The keyword is mandatory.

Available values: String

- *exec_queue_commands.pl*

Default: none

OMS

OMS

The keyword is relevant in the context of ODM.

 reference

→ [ODM_TEC]

..... *To be continued*

[SYSTEM] Section, Continuation

.....
OMSINFO

OMSINFO

The keyword is relevant in the context of ODM.

→ [ODM_TEC]

 reference

.....
ODM_TIMESLICE

ODM_TIMESLICE

The keyword is relevant in the context of ODM.

→ [ODM_TEC]

 reference

.....
ODM_AUTOUPDATE

ODM_AUTOUPDATE

The keyword is relevant in the context of ODM.

→ [ODM_TEC]

 reference

OutputDevice Section

.....
The output device section, [*output device*], contains the configuration of the correspondent output device.
.....



hint

When generating PDF in the output driver, environment variables are evaluated in addition to the settings in `plossys.cfg`.

→ *Environment Variables for the PDF Generation*, page 178
.....

keywords

This chapter describes the keywords.
.....

ASK_PAPER

ASK_PAPER specifies if the medium set in the header has to match the media currently inserted in the output device. In the event of non-compliance, the printer process generates an operation request or simply outputs the job. Unless matching is required, no pen type selection is displayed in PLOSSYS OCON neither when the output device is started nor operated.

The keyword is mandatory.

Available values: Boolean

- N
The media have not to match.
- Y
The media have to match.

Default: Y
.....

ASK_PEN

ASK_PEN specifies if the medium set in the header has to match the media currently inserted in the output device. In the event of non-compliance, the printer process generates an operation request or simply outputs the job. Unless matching is required, no pen type selection is displayed in PLOSSYS OCON neither when the output device is started nor operated.

The keyword is mandatory.

Available values: Boolean

- N
The pen types have not to match.
- Y
The pen types have to match.

Default: N
.....

To be continued

Output Device Section, Continuation

.....
AUTOSPLIT specifies the maximum page size at which an output job is not split due to its size. The automatic splitting function splits the pages of a multi-page file according to their sizes even if the output job originally should not be split.

AUTOSPLIT


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- *size*
Any paper sizes specified under `FORMAT_DEFINITIONS` in the system section are valid.

→ *FORMAT_DEFINITIONS*, page 274

 related topics

.....
AUTOSPLIT_TYPE specifies the split method.

AUTOSPLIT_TYPE

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- NOSPLIT

Default: NOSPLIT or value from the system section if set

.....
AVAILABLE_REMOTE_SYSTEMS specifies PLOSSYS netdome systems to which the output job for the output device is passed on. The systems are checked and the output job is sent to the first system to which a connection can be established. Unless a system of the list is reachable, the job is output to the central system itself.

AVAILABLE_REMOTE_SYSTEMS

easyPRIMA enters the keyword in all output device configurations of the central system.

The keyword is optional.

Available values: String

- *frans://frans-pipename@server:port*
A list of PLOSSYS netdome systems separated by blanks

Default: none

→ [EASYPRIMA_TEC]

 reference

As of version 4.6.1 of PLOSSYS netdome, the .tar and .tgz files are no longer transferred. They remain in the source system as long as the job exists.

 hint

..... *To be continued*

Output Device Section, Continuation

BOOKLET_FACEUP

.....
BOOKLET_FACEUP specifies the order of the page output. With some output devices (for example, HP devices), pages are output facing up on the folding device. This has to be taken into account with the order of the page output in order that the booklet will be folded correctly on the connected folding device.

The keyword is set in the template files of the output driver for the correspondent device manufacturer. The keyword is only set in the template files configuring physical devices. The template files configuring the mail or file output do not contain the keyword.

By default, the settings without folding device are activated. If a folding device is connected to the output device, the defaults for the booklet printing can be activated via the BOOKLET_FINISHER=Y keyword.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- Y
- N

Default: N or value from the system section if set

 related topics

→ *BOOKLET_FINISHER*, page 289

..... *To be continued*

Output Device Section, Continuation

.....
BOOKLET_FINISHER specifies if a folding device which is able to fold booklets is connected to the output device.

BOOKLET_FINISHER

If the BOOKLET_FINISHER=Y keyword is set, the following keywords are evaluated:

- BOOKLET_FINISHER_FACEUP
- BOOKLET_FINISHER_REVERSE
- BOOKLET_FINISHER_SORT

If the BOOKLET_FINISHER=N keyword is set or the keyword is missing, the following keywords are evaluated:

- FINISHER_FACEUP
- FINISHER_REVERSE
- FINISHER_SORT

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- Y
A folding device able to fold pages in the middle is connected to the output device.
- N
No folding device able to fold pages in the middle is connected to the output device.

Default: N or value from the system section if set

→ *BOOKLET_FACEUP*, page 288

→ *BOOKLET_REVERSE*, page 293


→ *BOOKLET_SORT*, page 293

→ *BOOKLET_FINISHER_FACEUP*, page 290

→ *BOOKLET_FINISHER_REVERSE*, page 290

→ *BOOKLET_FINISHER_SORT*, page 291

..... *To be continued*

 related topics

Output Device Section, Continuation

BOOKLET_
FINISHER_FACEUP

BOOKLET_FINISHER_FACEUP specifies the order of the page output. With some output devices (for example, HP devices), pages are output facing up on the folding device. This has to be taken into account with the order of the page output in order that the booklet will be folded correctly on the connected folding device.

The keyword only applies if a folding device is connected to the output device.

The keyword is only evaluated if BOOKLET_FINSIHER=Y is set.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- Y
- N

Default: N or value from the system section if set

 related top-
ics

→ *BOOKLET_FINISHER*, page 289

BOOKLET_
FINISHER_
REVERSE

BOOKLET_FINISHER_REVERSE specifies the order of the page output.

The keyword only applies if a folding device is connected to the output device.

The keyword is only evaluated if BOOKLET_FINSIHER=Y is set.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- Y
- N

Default: N or value from the system section if set

 related top-
ics

→ *BOOKLET_FINISHER*, page 289

..... *To be continued*

Output Device Section, Continuation

.....
BOOKLET_FINISHER_SORT specifies if the output job is prepared for the booklet printing by PLOSSYS netdome. This applies to the order of the page output.

BOOKLET_FINISHER_SORT

The keyword only applies if a folding device is connected to the output device.

The keyword is only evaluated if BOOKLET_FINSIHER=Y is set.

This keyword can be set for all output devices in the system section.


The keyword is optional.

Available values: Boolean

- Y
A modification for the booklet printing takes place.
- N
No modification for the booklet printing takes place.

Default: Y or value from the system section if set

→ *BOOKLET_FINISHER*, page 289

 related topics

.....
BOOKLET_MARGIN_FOLD specifies the distance between a scaled down page and the fold.

BOOKLET_MARGIN_FOLD

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Float in meter

- *value*

Default: 0.0 or value from the system section if set

.....
BOOKLET_MARGIN_LEFT specifies the distance to the left margin of a scaled down page.

BOOKLET_MARGIN_LEFT

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Float in meter

- *value*

Default: 0.0 or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

BOOKLET_
MARGIN_RIGHT

BOOKLET_MARGIN_RIGHT specifies the distance to the right margin of a scaled down page.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Float in meter

- *value*

Default: 0.0 or value from the system section if set

BOOKLET_
MARGIN_TOP

BOOKLET_MARGIN_TOP specifies the distance to the top margin of a scaled down page.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Float in meter

- *value*

Default: 0.0 or value from the system section if set

BOOKLET_
MARGIN_BOTTOM

BOOKLET_MARGIN_BOTTOM specifies the distance to the bottom margin of a scaled down page.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Float in meter

- *value*

Default: 0.0 or value from the system section if set

BOOKLET_MAX_
PAGES

BOOKLET_MAX_PAGES specifies the maximum number of pages for generating a booklet.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Integer

- *value*

Default: 60 or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

.....
BOOKLET_REVERSE specifies the order of the page output.

BOOKLET_REVERSE

The keyword only applies if a folding device is connected to the output device.

The keyword is set in the template files of the output driver for the correspondent device manufacturer. The keyword is only set in the template files configuring physical devices. The template files configuring the mail or file output do not contain the keyword.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- Y
- N

Default: N or value from the system section if set

.....
BOOKLET_SORT specifies if the output job is prepared by PLOSSYS netdome for the booklet printing. This applies to the order of the page output.

BOOKLET_SORT

The keyword is set in the template files of the output driver for the correspondent device manufacturer. The keyword is only set in the template files configuring physical devices. The template files configuring the mail or file output do not contain the keyword.

In contrast to the setting in `plossys.cfg`, the default of the keyword is set to Y in the template files.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- Y
A modification for the booklet printing takes place.
- N
No modification for the booklet printing takes place.

Default: N or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

CLIPPING_
TOLERANCE

.....
CLIPPING_TOLERANCE specifies the tolerance when comparing document size and section window (CropBox) for PDF files. Values below the specified tolerance are considered zero.

The keyword is optional.

Available values: Float in meter

- *value*

Default: 0.00005

COLLECT_JOB_
MEMBERS

.....
COLLECT_JOB_MEMBERS specifies the creation of spool files for set collations and multipage files.

This keyword can be set for all output devices in the system section.

The keyword is mandatory.

Available values: Enumeration

- **CONCAT**
All set members of an output job are collected and output after the calculation of the last associated file. First, all spool files are buffered and afterwards merged to one new spool file. With the e-mail output, only one e-mail is sent. With a set collation containing files from the PLS_PLOTTYPE=PDF and PLS_PLOTTYPE=NATIVE types, all consecutive PDF files are merged into one file. If the sequence is broken by a file with PLS_PLOTTYPE=NATIVE, a new merging to an additional PDF file starts with the next PDF file. The order of the files in the set collation is maintained.
- **CONCATMULTI**
All files belonging to one multi-page file are merged to one single spool file output after the calculation of the last associated file. This prevents output jobs from mingling with the set members or multi-page files if those are not output via PLOSSYS netdome. Files with PLS_PLOTTYPE=NATIVE are not merged.
- **NONE**
No files are merged. A separate spool file is created for each set member or for each page of a multi-page output job. With the e-mail output, each file and each page of a multi-page file is sent in a separate e-mail.

Default: NONE or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

.....
COLOR_TYPE specifies the color output.

COLOR_TYPE

The keyword is a selection criterion for a pool device.



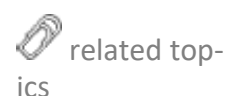
The keyword is optional.

Available values: Enumeration

- COLOR
The output device can colors.
- BW
The output device can monochrome only.

Default: BW

→ *POOL_FOR_PLOTTER*, page 363



.....
CONFIG specifies the printer configuration file. Unless a value is specified, the print configuration file in the server\plotserv\plotter directory is searched for a file with the name of the output device from the PLOTTER_NAME keyword and the suffix .cfg. By specifying an explicit name, a common configuration file can be created for several output devices of the same type. Then, all associated configuration files such as *plotter.db*, *plotter.stp*, *plotter.cut* are also expected to have this name.

CONFIG

The keyword is mandatory.

Available values: String

- *name*
Name of the output device configuration file without path and extension

Default: none

→ *PLOTTER_NAME*, page 358

..... *To be continued*

Output Device Section, Continuation

CROP_MARKS_
GENERATE

.....
CROP_MARKS_GENERATE specifies if a crop mark (Crop Box) is set. Crop marks are set if the document is not in DIN format or is full color and borderless. The operator decides if crop marks are necessary and activates the creation of the crop marks for the output job in PLOSSYS OCON. These crop marks always are located outside the document and enlarge them in a targeted way so that the next-largest paper size is selected. The crop marks point inwards.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration

- ALLOWED
Crop marks are only set if the header item PLS_CROP_MARKS is set to Y. The default of the header item is N so that no cutting marks are set by default.
- EVER
Crop marks are always set.
The header item PLS_CROP_MARKS is not evaluated.
- NEVER
Crop marks are never set.
The header item PLS_CROP_MARKS is not evaluated.

Default: ALLOWED or value from the system section if set

 related top-
ics

- CROP_MARKS_COLOR, page 296
- CROP_MARKS_LINELENGTH, page 297
- CROP_MARKS_LINEWIDTH, page 297
- CROP_MARKS_MARGIN, page 297

 reference

- [PLOSSYS_PARAM_TEC]

CROP_MARKS_
COLOR


.....
CROP_MARKS_COLOR specifies the color of the crop mark (crop box).

The keyword is optional.

Available values: Integer

- *number*
color of the crop mark

Default: 1

 related top-
ics

- CROP_MARKS_GENERATE, page 296

..... To be continued

Output Device Section, Continuation

.....
CROP_MARKS_COLOR specifies the line length of the crop mark (crop box).

This keyword can be set for all output devices in the system section.

The keyword is optional.


Available values: Float in meter

- *x.xxx*
Line length

Default: 0.005

→ *CROP_MARKS_GENERATE*, page 296

CROP_MARKS_
LINELENGTH

 related top-
ics

.....
CROP_MARKS_COLOR specifies the line width of the crop mark (crop box).

This keyword can be set for all output devices in the system section.

The keyword is optional.


Available values: Float in meter

- *x.xxxx*
Line length

Default: 0.0003

→ *CROP_MARKS_GENERATE*, page 296

CROP_MARKS_
LINEWIDTH

 related top-
ics

.....
CROP_MARKS_MARGIN specifies the distance between the outer border of the crop mark (crop box) and the document.

This keyword can be set for all output devices in the system section.

The keyword is optional.


Available values: Float in meter

- *x.xxx*
Distance

Default: 0.005

→ *CROP_MARKS_GENERATE*, page 296

CROP_MARKS_
MARGIN

 related top-
ics

..... *To be continued*

Output Device Section, Continuation

CUSTOMER_COUNT

.....
CUSTOMER_COUNT specifies the number of labels per track.



hint

The keyword is relevant in the context of Cartago interface.

The keyword is optional.

Available values: Integer

- *value*

Default: none

.....

CUSTOMER_HEIGHT

.....
CUSTOMER_HEIGHT specifies the height of a label.



hint

The keyword is relevant in the context of Cartago interface.

The keyword is optional.

Available values: Float in millimeter

- *value*

Default: none

.....

CUSTOMER_
ITERATION_NODE

.....
CUSTOMER_ITERATION_NODE specifies the XML element in the input file where the input data is split in several files for a parallel processing.



hint

The keyword is relevant in the context of Cartago interface.

The keyword is optional.

Available values: String

- *element*

Default: none

.....

CUSTOMER_
ITERATION_IDENT

.....
CUSTOMER_ITERATION_IDENT specifies the identifier of the separated file.



hint

The keyword is relevant in the context of Cartago interface.

The keyword is optional.

Available values: String

- *//element/@id*

Default: none

.....

To be continued

Output Device Section, Continuation

.....
CUSTOMER_OUTPUT specifies the target format, in which the Cartago converter converts the input file.

CUSTOMER_OUTPUT

The keyword is relevant in the context of Cartago interface.



The keyword is optional.

Available values: Enumeration

- AFP
- EP
- PCL
- PDF
- PS
- ZPL

Default: PDF

.....
CUSTOMER_PACKET_SIZE specifies the number of data sets per package. If a file contains 100 data sets, a PLOSSYS netdome member is created after every fifth data set. Therefore, a set collation with twenty members is created.

CUSTOMER_PACKET_SIZE

The keyword is relevant in the context of Cartago interface.



The keyword is optional.

Available values: Integer

- -1
The job file is not separated into single set members.
- > 0
The job file is separated into several packages according to the value.

Default: -1

..... *To be continued*

Output Device Section, Continuation

CUSTOMER_
PRINTMODE



hint

.....
CUSTOMER_PRINTMODE specifies the printer mode.

The keyword is relevant in the context of Cartago interface.

The keyword is optional.

Available values: Enumeration

- T
TEAR_OFF
- R
REWIND
- P
PEEL_OFF_SELECT
- Q
PEEL_OFF_NOSELECT
- C
CUTTER

Default: T

..... *To be continued*

Output Device Section, Continuation

.....
CUSTOMER_RESOLUTION specifies the resolution of the printer.

CUSTOMER_RESOLUTION

The keyword is relevant in the context of Cartago interface.



The keyword is optional.

Available values: Integer in dpi

- *value*

Default: 300

.....
CUSTOMER_TEMPLATE specifies the XSL template file for the creation of the target file.

CUSTOMER_TEMPLATE

If both the CUSTOMER_TEMPLATE and CUSTOMER_TEMPLATE_XPATH keywords are set, the value of CUSTOMER_TEMPLATE is used!

The keyword is relevant in the context of Cartago interface.



The keyword is optional.

Available values: String

- *template_name*
Template file on the Cartago system

Default: none

→ *CUSTOMER_TEMPLATE_XPATH*, page 301



.....
CUSTOMER_TEMPLATE_XPATH specifies the xpath to the template file within the XML input file.

CUSTOMER_TEMPLATE_XPATH

If both the CUSTOMER_TEMPLATE and CUSTOMER_TEMPLATE_XPATH keywords are set, the value of CUSTOMER_TEMPLATE is used!

The keyword is relevant in the context of Cartago interface.



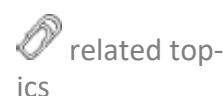
The keyword is optional.

Available values: String

- */path1/path2</template>*
Path specification

Default: none

→ *CUSTOMER_TEMPLATE*, page 301



..... *To be continued*

Output Device Section, Continuation

CUSTOMER_
TRANSFER_MODE

.....
CUSTOMER_TRANSFER_MODE specifies the transfer mode from the PLOSSYS netdome server to the Cartago server. The keyword cannot be configured via a template file on the Cartago system.



hint

The keyword is relevant in the context of Cartago interface.

The keyword is optional.

Available values: Enumeration

- HOTFOLDER
Transfer via hot folder mechanism
- REST
Transfer via REST interface
- RESTIGP
Transfer via IGP REST interface

Default: HOTFOLDER

CUSTOMER_
TRACK_COUNT

.....
CUSTOMER_TRACK_COUNT specifies the number of tracks.



hint

The keyword is relevant in the context of Cartago interface.

The keyword is optional.

Available values: Integer

- *value*

Default: none

CUSTOMER_
TRACK_SPACING

.....
CUSTOMER_TRACK_SPACING specifies the distance of two labels output on nearby tracks.



hint

The keyword is relevant in the context of Cartago interface.

The keyword is optional.

Available values: Float in millimeter

- *value*

Default: none

..... *To be continued*

Output Device Section, Continuation

.....
CUSTOMER_WIDTH specifies the widths of a label.

CUSTOMER_WIDTH

The keyword is relevant in the context of Cartago interface.



The keyword is optional.

Available values: Float in millimeter

- *value*

Default: none

.....
CUTTER_TYPE specifies the type of the integrated cutter.

CUTTER_TYPE

The keyword is optional.

Available values: Enumeration

- BAY
Bay cutter
- DAHLE
DAHLE cutter
- PITNEY_BOWES
PITNEY-Bowes cutter
- NONE
No cutter

Default: NONE

.....
DB_FILE_SELECT specifies the GKS configuration file for vector jobs. The name of the configuration file is specified by PLOTTER_NAME or by CONFIG.

DB_FILE_SELECT

The keyword is optional.

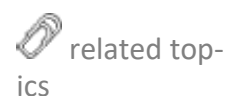
Available values: Enumeration

- NORMAL
The *pLotter.db* file is read.
- PENTYPE
Depending on the pen type specified in the header, the *Plotter_TU.db* or the *Plotter_KU.db* file is used. With *DE* specified as pen type in the header, the default pen type *KU* is used. *BE* in the header has the effect that the pen type of the previous output job is used, or the default pen type *KU* if it is the first output job.

Default: NORMAL

→ *PLOTTER_NAME*, page 358

→ *CONFIG*, page 295



..... *To be continued*

Output Device Section, Continuation

DEBUG

DEBUG specifies if messages from GEKKO are logged.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration

- N
Log messages of GEKKO will not be logged.
- Y
Log messages of GEKKO will always be logged.
- HEADER
The log messages of GEKKO will be logged if header item PLS_DEBUG is set to Y.

Default: HEADER or value from the system section if set

DEFAULT_BE_
PAPER

DEFAULT_BE_PAPER specifies the paper type.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration

- PA
Paper
- TR
Transparency
- FO
Film
- LI
Light-weight Paper
- DB
Cover sheet
- SP
Special Medium
- SP1 to SP12
Special medium 1-12
- DE
Default paper type
- BE
Any paper type

Default: BE or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

.....
DEFAULT_BE_PEN specifies the pen type.

DEFAULT_BE_PEN

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration

- KU
Ballpoint pen, e. g. different colors
- TU
Ink, e. g. different line width
- DE
Default pen type
- BE
Any pen type
Default pen type that applies if the job header specifies PLS_PLOTPEN=BE.

Default: BE or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

DEFAULT_
SCALETYP

.....
DEFAULT_SCALETYP specifies the default scaling type. The user-defined scaling factor is always evaluated before this scaling.

The keyword is optional.

Available values: Enumeration

- /MAXSCL
Maximum scaling: The document is scaled down to such an extent that the document area of the output device is used best.
- /DINSCL
DIN scaling: By means of this function, documents in DIN format can be output to an output device using a medium of the same DIN format without scaling even if the output device cannot output up to the border. It is mainly used if it is important to output a document without scaling, and if the border of the document does not contain usable information anyway. The border of the document is cut away according to the setting in the output device configuration file. In case of documents not in the DIN format, the border is also clipped correspondingly. However, both with DIN format documents and with other documents, the DIN scaling is only used if the tolerance limits are not exceeded, see *DINSCL_TOLERANCE*, page 308. Otherwise, the maximum scaling is used.
- /INTSCL
Integer scaling: The document is scaled by the factor 1/2, 1/3, 1/4 and so on; this results in the largest size that can be completely printed on the output device.
- /NOSCAL
No scaling: The areas of the document projecting at the top and right-hand border of the document are cut away.

Default: /MAXSCL

..... *To be continued*

Output Device Section, Continuation

.....
DEL_TEMPFILES specifies if the temporary files created during the spool file creation are deleted. DEL_TEMPFILES

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- Y
Temporary files will be deleted.
- N
Temporary files will not be deleted.

Default: Y or value from the system section if set

.....
DEVICE_ERROR_STATES specifies which status change of the output device a message is sent to Infoclient. DEVICE_ERROR_STATES

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- OFFLINE
The output device is switched off.
- UNAVAILABLE
The output device cannot be reached.
- CRITICAL_ALERT
Critical device error
- *Device_Status*
All available status values of the output device

Default: none

..... *To be continued*

Output Device Section, Continuation

DINSCL_
TOLERANCE

.....
DINSCL_TOLERANCE specifies the tolerance specification within which a document with DIN scale is output. If the document is larger than the selected paper format and this tolerance is exceeded in the X and/or Y position, the maximum scaling is always used even if the DIN scaling has been entered in the header.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Float in meter

- 0.0
Value

Default: 0.015 or value from the system section if set

 related topics

→ *DEFAULT_SCALETYPE*, page 306

DO_CALIBRATION

.....
DO_CALIBRATION specifies if an output device-dependent and media-dependent recalibration (calibration) of the document is performed.

The PLOSSYS netdome option CALIplot is required.

The keyword is optional.

Available values: Boolean

- N
The document will not be calibrated.
- Y
The document will be calibrated.

Default: N

..... *To be continued*

Output Device Section, Continuation

.....
DOTS_PER_INCH_LOW specifies the output quality of the output job according to the capabilities of the output device. The values for the settings of the print quality in dots per inch are specific for each output device.

DOTS_PER_INCH_LOW

The keyword is only relevant for raster output.

This keyword can be set for all output devices in the system section.

The keyword is optional.


Available values: Integer

- *value*
Resolution in dpi

Default: 150 or value from the system section if set

→ DOTS_PER_INCH_NORMAL, page 309

→ DOTS_PER_INCH_HIGH, page 310

 related topics

.....
DOTS_PER_INCH_NORMAL specifies the output quality of the output job according to the capabilities of the output device. The values for the settings of the print quality in dots per inch are specific for each output device.

DOTS_PER_INCH_NORMAL

The keyword is only relevant for raster output.

This keyword can be set for all output devices in the system section.

The keyword is optional.


Available values: Integer

- *value*
Resolution in dpi

Default: 300 or value from the system section if set

→ DOTS_PER_INCH_LOW, page 309

→ DOTS_PER_INCH_HIGH, page 310

 related topics

..... *To be continued*

Output Device Section, Continuation

DOTS_PER_
INCH_HIGH

.....
DOTS_PER_INCH_HIGH specifies the output quality of the output job according to the capabilities of the output device. The values for the settings of the print quality in dots per inch are specific for each output device.

The keyword is only relevant for raster output.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Integer

- *value*
Resolution in dpi

Default: 600 or value from the system section if set

 related topics

→ *DOTS_PER_INCH_LOW*, page 309

→ *DOTS_PER_INCH_NORMAL*, page 309

DUMMY_PLOT_DRAW

.....
DUMMY_PLOT_DRAW can be used to output a dummy job if no further job has been output after the output of a document and after the timeout of the DUMMY_PLOT_TIME. Through the paper feed forced by this function, for example with the HP Design Jet, the last document can be output completely.

In addition to this configuration, a `plotter.dps` script has to be available in the `server\plotserv\plotter` directory. This script copies a job header, a metafile and a trigger file into the `%PLSDATA%\io\maingate` directory. These files have to have the same base name. To mark a job as dummy output job, the header has to contain the line `PLS_DUMMY_0=,,@@@PLOSSYS-DUMMY-PLOT@@@`.

 **Caution**


This functionality is only available on UNIX!

The keyword is optional.

Available values: Boolean

- N
No dummy output function available. The output script is called for each job.
- Y
A dummy job is output.

Default: N

 related topics

→ *DUMMY_PLOT_TIME*, page 311

→ *DUMMY_WRITE_SET_HEADER*, page 311

..... *To be continued*

Output Device Section, Continuation

.....
DUMMY_PLOT_TIME specifies the waiting time until the dummy job is released.

DUMMY_PLOT_TIME

The keyword is optional.

Available values: Integer in seconds

- 0
Waiting time until the dummy job is output

Default: 0

This item is only evaluated if DUMMY_PLOT_DRAW=Y is set.

→ *DUMMY_PLOT_DRAW*, page 310

→ *DUMMY_WRITE_SET_HEADER*, page 311



Caution



related topics

.....
DUMMY_WRITE_SET_HEADER specifies how often the output script is called.

DUMMY_WRITE_SET_HEADER

This keyword is only evaluated in conjunction with a dummy output device driver.



Caution

The keyword is optional.

Available values: Boolean

- N
The output script is called for each set member.
- Y
For a set collation, the output script is only called once. As parameter, the output script is given the name of the file which contains the file names of the set header and the headers of all set members.

Default: N

→ *DUMMY_PLOT_DRAW*, page 310

→ *DUMMY_PLOT_TIME*, page 311



related topics

..... *To be continued*

Output Device Section, Continuation

DUPLEX_DEFAULT

DUPLEX_DEFAULT specifies the orientation of the pages during duplex output. This keyword can be set for all output devices in the system section.



Caution

The keyword is only evaluated if DUPLEX_GENERATE=ALWAYS and PLS_DUPLEX=noentry are set.

The keyword is optional.

Available values: Enumeration

- LONG_SIDE
Duplex printing with the long side as binding edge.
- SHORT_SIDE
Duplex printing with the short side as binding edge.

Default: LONG_SIDE or value from the system section if set



related topics

→ *DUPLEX_GENERATE*, page 312

DUPLEX_GENERATE

DUPLEX_GENERATE specifies when a duplex output occurs. Only output devices understanding PostScript or PCL and with drivers producing these formats for vector- and raster-output are enabled for duplex printing.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration

- NEVER
Duplex printing is disabled.
- EVER
Duplex printing is always enabled.
- ALLOWED
Duplex printing is enabled/disabled by the PLS_DUPLEX header item.

Default: NEVER or value from the system section if set



related topics

→ *DUPLEX_DEFAULT*, page 312

→ *DUPLEX_IGNORE_LAST_EMPTY_REVERSE*, page 313

..... *To be continued*

Output Device Section, Continuation

.....
DUPLEX_IGNORE_LAST_EMPTY_REVERSE specifies if needless white pages generated by SEAL PS Driver with other SEAL applications (Windows Integration, SEAL Master Driver) are removed.

DUPLEX_IGNORE_LAST_EMPTY_REVERSE


The keyword is optional.

Available values: Boolean

- Y
The white pages are removed.
- N
The white pages are not removed.

Default: N

→ *DUPLEX_GENERATE*, page 312

 related topics

.....
DUPLEX_TIGHT_SET specifies if sets are output without blank back sides between the set members. Exceptions to this are the blank back sides with cover and end sheets and tray changes.

DUPLEX_TIGHT_SET

The keyword is evaluated for sets and when duplex printing has been activated.


The keyword is optional.

Available values: Boolean

- Y
Sets are output without blank back sides.
- N
Sets are output with blank back sides.

Default: N

→ *DUPLEX_GENERATE*, page 312

 related topics

.....
FAILOVER_QUEUE specifies the alternative output device to which it is redirected in the event of an error. If the keyword is empty or does not exist, there is no redirecting.

FAILOVER_QUEUE


The keyword is optional.

Available values: String

- *PLOTTER_NAME*
Name of the output device to which it is redirected in case of error.

Default: none

→ *FAILOVER_TIMEOUT*, page 314

 related topics

..... *To be continued*

Output Device Section, Continuation

FAILOVER_
TIMEOUT

.....
FAILOVER_TIMEOUT specifies the time period after a erroneous output device is redirected to an alternative output device. Due to performance reasons the system internally rounds up to the next 30 seconds interval (30 seconds, 60 seconds, 90 seconds).


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Integer in seconds

- *seconds*
Time period after which an erroneous output device is redirected to an alternative output device.

Default: 600 or value from the system section if set

 related topics

→ *FAILOVER_QUEUE*, page 313

FALLBACK_XX

.....
FALLBACK_XX specifies an alternative medium for each medium _XX. This alternative medium is used if the desired medium _XX is no longer available. Unless the alternative output medium is available, an operation request is displayed for this output device.

The keyword is optional.

Available values: Enumeration

- SP
Special Medium
- PA
Paper
- FO
Film
- ...
All media specified in PLOSSYS netdome

Default: none

..... *To be continued*

Output Device Section, Continuation

.....
FILE_NAME_FORMAT specifies the format of the output file names. The format may contain fix texts, variables and specifications of the subdirectories. In order to secure uniqueness, adding a counter variable $\$COUNTERn$ to the file format is recommended. The counter variable adds a continuous n-digit number to the file name. Unless a counter variable is configured, a time stamp is added to the file name. As more than one file may be created per second, the time stamp is complemented with a counter.

FILE_NAME_
FORMAT

The following options have to be activated in the output script %PLSPLS%\plotter\sepp.pdfout.customer.pl:

```
$OptionsCopy{"UseFileNameFormat"} = "Y";  
$OptionsCopy{"IgnoreCopy"} = "1"; # activate and set to 1
```

The keyword is only evaluated for the COPY output type.



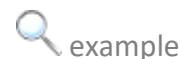
The keyword is optional.

Available values: "dir\\subdir\\ $\${PNvariable}\$\{COUNTERn}$ " with

- dir\\subdir\\
Subdirectory which is created if necessary
- $\${PNvariable}$
Any PLOSSYS netdome variable which is replaced by the current value during runtime
- $\$\{COUNTERn\}$
The counter variable adds a continuous n-digit number to the file name.

Default: none

If the QUEUE keyword is set to %PLSI0%/pdfout, the item



```
FILE_NAME_FORMAT "test\\hugo\\ $\{\$PLS\_ORIG\_NAME\}\$\{COUNTER3\}$ "
```

generates an output file

```
%PLSI0%/pdfout/test/hugo/<FILE>001.pdf.
```

..... *To be continued*

Output Device Section, Continuation

FLAGPAGE_FORMAT

FLAGPAGE_FORMAT specifies the format of the flagpage.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- "\$PLS_PLOTID \$PLS_SRCNODE \$PLS_USERNAME \$PLS_PLOTDATE "\n"\$6.3PLO_SCALE"

String with variables and format specifications which is to be printed as flagpage. In the flagpage any printable characters as well as variables with a possible format specification and \n as line make-up can be used.

Variables start with \$, followed by an optional formatting specification as is used with the C function printf.

The number before the dot specifies the minimum field width. The text is output in a field of this minimum width; if necessary, the field may also be wider. If the text has fewer characters than the width of the field requires, the space is filled with blanks.

The number after the dot specifies the precision, that means the maximum of output characters.

It is possible to specify either the minimum width of the field or the precision, or both.

The following formats are available for the month:

#m: Two-digit number (02)

#a: Abbreviation in normal notation (Feb)

#A: Abbreviation in upper-case letters (FEB)

#n: English, written out in normal notation (February)

#N: English, written out in upper-case letters (FEBRUARY)

#1N: German, written out in upper-case letters (FEBRUAR)

#2N: French, written out in upper-case letters (FÉVRIER)

#3N: Spanish, written out in upper-case letters (FEBRERO)

By default, the date is formatted according to the ISO norm 8601.

Default: Setting in plossys.cfg

..... *To be continued*

Output Device Section, Continuation

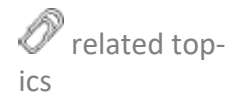
.....
Examples of the configuration and the presentation of the different date standards (PLS_PLOTDATE):



- "\$PLS_PLOTDATE" "2018-02-26T18:16:22" (ISO 8601)
- "\$'#d.#m.#Y #H:#M:#S' PLS_PLOTDATE" "26.02.2018 18:16:22" (DIN 5008)
- "\$'#Y-#A-#d #H:#M:#S' PLS_PLOTDATE" "2018-FEB-26 18:16:22"
- "\$'#Y-#a-#d #H:#M:#S' PLS_PLOTDATE" "2018-Feb-26 18:16:22"
- "\$'#Y-#N-#d #H:#M:#S' PLS_PLOTDATE" "2018-FEBRUARY-26 18:16:22"
- "\$'#Y-#n-#d #H:#M:#S' PLS_PLOTDATE" "2018-February-26 18:16:22"
- "\$'#Y-#1N-#d #H:#M:#S' PLS_PLOTDATE" "2018-FEBRUAR-26 18:16:22" (de)
- "\$'#Y-#2N-#d #H:#M:#S' PLS_PLOTDATE" "2018-FÉVRIER-26 18:16:22" (fr)
- "\$'#Y-#3N-#d #H:#M:#S' PLS_PLOTDATE" "2018-FEBRERO-26 18:16:22" (sp)

The following variables are available:

- PLOSSYS Job Parameter
→ [PLOSSYS_PARAM_TEC]
- additional variables
→ *Additional Variables*, page 460



..... *To be continued*

Output Device Section, Continuation

FOLDER_BYPASS

.....
FOLDER_BYPASS specifies if the output jobs are folded.



hint

The keyword is a selection criterion for a pool device.

The keyword is optional.

Available values: Boolean

- N
All output jobs are folded.
- Y
Output jobs not to be folded are not folded.

Default: Y

FOLDER_MAX_SIZE

.....
FOLDER_MAX_SIZE specifies the size of the output job at which the output device can still correctly fold the output job.



hint

The keyword is a selection criterion for a pool device.

The keyword is optional.

Available values: Float in meter

- *value*
Value with which the output device can correctly fold the output job with maximum length.

Default: none

FOLDER_TYPE

.....
FOLDER_TYPE specifies the name of the folder that will be passed to the output script. If a folder is specified, the distribution information is always output on a separate sheet (FLAGSHEET).

The keyword is optional.

Available values: String

- *folder_name*
folder type
- NONE
No folder

Default: NONE

..... *To be continued*

Output Device Section, Continuation

.....
FP_ALIGNMENT specifies the position of the flagpage. In conjunction with FP_SIDE, the flagpage can be positioned at each corner of the document.

FP_ALIGNMENT

This keyword can be set for all output devices in the system section.

This keyword is only evaluated if FP_GENERATE has been set to Y.



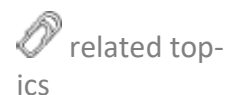
The keyword is optional.

Available values: Enumeration

- LEFT
left-aligned
- RIGHT
right-aligned
- CENTER
centered

Default: LEFT or value from the system section if set

→ FP_GENERATE, page 322



.....
FP_CLEARBG specifies if the background of the flagpage is deleted.

FP_CLEARBG

This keyword can be set for all output devices in the system section.

This keyword is only evaluated if FP_GENERATE has been set to Y.



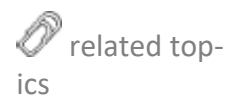
The keyword is optional.

Available values: Boolean

- N
The background of the flagpage is not deleted.
- Y
The background of the flagpage is deleted.

Default: N or value from the system section if set

→ FP_GENERATE, page 322



..... *To be continued*

Output Device Section, Continuation

FP_COLOR

.....
FP_COLOR specifies the color of the flagpage.

This keyword can be set for all output devices in the system section.



hint

This keyword is only evaluated if FP_GENERATE has been set to Y.

The keyword is optional.

Available values: Integer

- 1
Color index in which the flagpage is output.

Default: 1 or value from the system section if set

related top-
ics

→ *FP_GENERATE*, page 322

FP_DISTANCEX

.....
FP_DISTANCEX specifies the distance of the flagpage to the document edge in the writing direction. The X of FP_DISTANCEX refers to the job coordinate system if the flagpage is rotated together with the document or to the paper coordinate system if it is not rotated together with the document.

This keyword can be set for all output devices in the system section.



hint

This keyword is only evaluated if FP_GENERATE has been set to Y.

The keyword is optional.

Available values: Float in meter

- 0.0

Default: 0.0 or value from the system section if set

related top-
ics

→ *FP_GENERATE*, page 322

..... *To be continued*

Output Device Section, Continuation

.....
FP_DISTANCEY specifies the distance of the flagpage to the document edge in the writing direction. The Y of FP_DISTANCEY refers to the job coordinate system if the flagpage is rotated together with the document or to the paper coordinate system if it is not rotated together with the document.

FP_DISTANCEY

This keyword can be set for all output devices in the system section.

This keyword is only evaluated if FP_GENERATE has been set to Y.

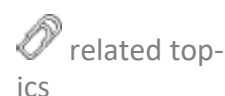


The keyword is optional.

Available values: Float in meter

- 0.0 or value from the system section if set

→ FP_GENERATE, page 322



.....
FP_FONT specifies the font type of the flagpage.

FP_FONT

This keyword can be set for all output devices in the system section.

This keyword is only evaluated if FP_GENERATE has been set to Y.



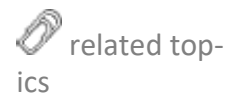
The keyword is optional.

Available values: Integer

- GKS_Number

Default: 901 or value from the system section if set

→ FP_GENERATE, page 322



→ [FONTS_USR]



..... To be continued

Output Device Section, Continuation

FP_GENERATE

FP_GENERATE specifies if a flagpage is created.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration

- ALLOWED
The flagpage will be generated depending on the header item.
- EVER
The flagpage will always be generated independent of the header item.
- NEVER
The flagpage will never be generated independent of the header item.

Default: ALLOWED or value from the system section if set

 related topics

→ *FP_ALIGNMENT*, page 319

→ *FP_CLEARBG*, page 319

→ *FP_COLOR*, page 320

→ *FP_DISTANCEX*, page 320

→ *FP_DISTANCEY*, page 321

→ *FP_FONT*, page 321

→ *FP_LINEWIDTH*, page 323

→ *FP_POSITION*, page 323

→ *FP_ROTATE*, page 324

→ *FP_SIDE*, page 325

→ *FP_SPACING*, page 325

→ *FP_TEXTSIZE*, page 326

→ *FP_UPVECTOR*, page 327

→ *VERTEILER_TYPE*, page 392

..... *To be continued*

Output Device Section, Continuation

.....
FP_LINEWIDTH specifies the line width of the flagpage.

FP_LINEWIDTH

This keyword can be set for all output devices in the system section.

This keyword is only evaluated if OPTIMIZE has been set to Y.



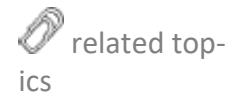
The keyword is optional.

Available values: Float in meter

- *value*

Default: 0.0001 or value from the system section if set

→ FP_GENERATE, page 322



.....
FP_POSITION specifies the position of the flagpage.

FP_POSITION

This keyword can be set for all output devices in the system section.

This keyword is only evaluated if OPTIMIZE has been set to Y.



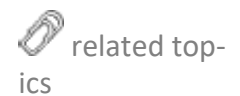
The keyword is optional.

Available values: Enumeration

- INSIDE
The flagpage is located inside the border of the document.
- OPTIONAL_OUTSIDE
The flagpage outside the border of the document if there is enough space to do this without scaling the document; otherwise it is located inside.
- OUTSIDE
The flagpage is located outside the border of the document. Depending on the scaling type, the document is scaled or clipped if necessary.

Default: INSIDE or value from the system section if set

→ FP_GENERATE, page 322



..... *To be continued*

Output Device Section, Continuation

FP_ROTATE

FP_POSITION specifies the rotation of the flagpage.

This keyword can be set for all output devices in the system section.



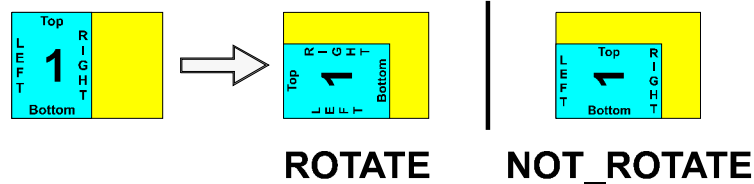
hint

This keyword is only evaluated if OPTIMIZE has been set to Y.

The keyword is optional.

Available values: Enumeration

- ROTATE
The flagpage is rotated together with the document. This represents a document-related flagpage.
- NOT_ROTATE
The flagpage is not rotated together with the document. This represents a document-related flagpage.



Default: ROTATE or value from the system section if set

related top-
ics

→ *FP_GENERATE*, page 322

..... *To be continued*

Output Device Section, Continuation

.....
FP_SIDE specifies the position of the flagpage.

FP_SIDE

This keyword can be set for all output devices in the system section.

This keyword is only evaluated if OPTIMIZE has been set to Y.



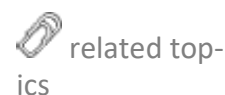
The keyword is optional.

Available values: Enumeration

- BOTTOM
The flagpage is located at the bottom border of the document.
- LEFT
The flagpage is located at the left border of the document.
- RIGHT
The flagpage is located at the right border of the document.
- TOP
The flagpage is located at the upper border of the document.

Default: RIGHT or value from the system section if set

→ FP_GENERATE, page 322



.....
FP_SPACING specifies the factor for changing the character spacing of the text of the flagpage.

FP_SPACING

This keyword can be set for all output devices in the system section.

This keyword is only evaluated if OPTIMIZE has been set to Y.

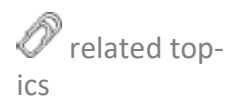


The keyword is optional.

Available values: Float in meter

Default: 1.0 or value from the system section if set

→ FP_GENERATE, page 322



..... *To be continued*

Output Device Section, Continuation

FP_TEXTSIZE

.....
FP_TEXTSIZE specifies the line height of the flagpage.

This keyword can be set for all output devices in the system section.



hint

This keyword is only evaluated if OPTIMIZE has been set to Y.

The keyword is optional.

Available values: Float in meter

Default: 0.005 or value from the system section if set



related top-
ics

→ *FP_GENERATE*, page 322

..... *To be continued*

Output Device Section, Continuation

.....
FP_UPVECTOR specifies the orientation of the flagpage by describing the writing direction of a letter from the ground line to the top, seen from the center of the output job.

FP_UPVECTOR

This keyword can be set for all output devices in the system section.

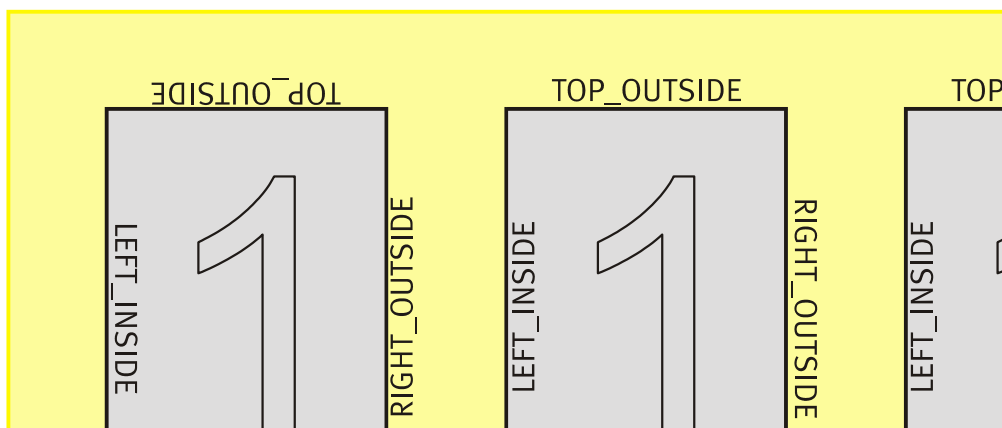
This keyword is only evaluated if OPTIMIZE has been set to Y.



The keyword is optional.

Available values: Enumeration

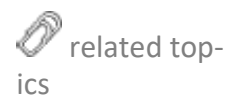
- IN
The flagpage can be read when looking outwards to the document center.
- OUT
The flagpage can be read when looking outwards from the document center.
- NONE
The flagpage at the left or the right border can be read from the right, the flagpage at the top or the bottom border, can be read from the bottom.



Default: NONE or value from the system section if set

→ FP_GENERATE, page 322

..... To be continued



Output Device Section, Continuation

GRAPHCODE

.....
GRAPHCODE specifies the printer code produced by the GXC engine. The assignment of the real device numbers to the symbolic names is specified in `gxc_devices.cfg` in the `server\plotserv\plotter` directory.

The keyword is optional.

Available values: String

- Values in the file `server\plotserv\plotter\gxc_devices.cfg`

Default: HPGL2

GRAPHIC_TYPE

.....
GRAPHIC_TYPE specifies the data format that can be processed by the output device.



hint

The keyword is a selection criterion for a pool device.

The keyword is optional.

Available values: Enumeration

- VECTOR
The output device can process vector data only.
- RASTER
The output device can process raster data only.

Default: RASTER



related topics

→ *POOL_FOR_PLOTTER*, page 363

..... *To be continued*

Output Device Section, Continuation

.....
GS_CALL specifies the call of the Ghostscript converter. With PDF processing, the PostScript code generated is converted into an output device code with the help of Ghostscript.

GS_CALL

For the different output qualities (PLS_PRINT_QUALITY job parameter), specific keywords are available, *GS_CALL_quality*. Due to NORMAL is the default for the PLS_PRINT_QUALITY output parameter, *GS_CALL_NORMAL* is used even if PLS_PRINT_QUALITY has not be specified for the job. *GS_CALL* is only used if the keyword corresponding to PLS_PRINT_QUALITY, *GS_CALL_quality* does not exist. However, in the printer templates, *GS_CALL* is always used.

For all PostScript devices, *GS_CALL* is set to %PLSPLS%/gsca11.pl. %PLSPLS%/gsca11.pl takes the Ghostscript parameters used when calling the output driver and calls the converter with them. The used converter is then specified in *GS_PARAMS*.

This keyword can be set for all output devices in the system section.


The keyword is optional.

Available values: String

- „*path_gs_converter*“
Path to the Ghostscript converter or the script

Default: %PLSGS%/bin_%PLS_OSFULLNAME%/gs.exe or value from the system section if set

- *GS_CALL_HIGH*, page 330
- *GS_CALL_LOW*, page 330
- *GS_CALL_NORMAL*, page 331
- *PLOT_MIN_SIZE*, page 356
- *GS_PARAMS_HIGH*, page 334
- *GS_PARAMS_LOW*, page 335
- *GS_PARAMS_NORMAL*, page 335

 related topics

..... *To be continued*

Output Device Section, Continuation

GS_CALL_HIGH

.....
GS_CALL_HIGH specifies the call of the converter for the high output quality (PLS_PRINT_QUALITY HIGH job parameter).

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: see GS_CALL

Default: %PLSTOOLS%/bin_%PLS_OSFULLNAME%/gs.exe or value from the system section if set



related topics

→ *GS_CALL*, page 329

→ *GS_CALL_LOW*, page 330

→ *GS_CALL_NORMAL*, page 331

→ *GS_PARAMS_HIGH*, page 334

GS_CALL_LOW

.....
GS_CALL_LOW specifies the call of the converter for the low output quality (PLS_PRINT_QUALITY LOW job parameter).

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: see GS_CALL

Default: %PLSTOOLS%/bin_%PLS_OSFULLNAME%/gs.exe or value from the system section if set



related topics

→ *GS_CALL*, page 329

→ *GS_CALL_HIGH*, page 330

→ *GS_CALL_NORMAL*, page 331

→ *GS_PARAMS_LOW*, page 335

..... *To be continued*

Output Device Section, Continuation

.....
GS_CALL_NORMAL specifies the call of the converter for the normal output quality (PLS_PRINT_QUALITY NORMAL job parameter).

GS_CALL_NORMAL

Due to NORMAL is the default for the PLS_PRINT_QUALITY output parameter, GS_CALL_NORMAL is used even if PLS_PRINT_QUALITY has not be specified for the job. GS_CALL is only used if the keyword corresponding to PLS_PRINT_QUALITY, GS_CALL_*quality* does not exist. However, in the printer templates, GS_CALL is always used.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: see GS_CALL


Default: %PLSTOOLS%/bin_%PLS_OSFULLNAME%/gs.exe or value from the system section if set

→ GS_CALL, page 329

→ GS_CALL_HIGH, page 330

→ GS_CALL_LOW, page 330

→ GS_PARAMS_NORMAL, page 335

 related topics

.....
GS_DEFAULT_TIMEOUT specifies the maximum time interval that is accepted for the conversion of a page when processing PDF files. If the converting process is not yet finished after this time interval is over, the converting process will be aborted.

GS_DEFAULT_TIMEOUT

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Integer in seconds

- *value*
Value

Default: 120 or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

GS_DITHER_
PARAMS

.....
GS_DITHER_PARAMS specifies the number of simulated gray scale steps and the size of the continuous tone cell. The smaller the value for *NNN*, the larger the continuous tone cells and rougher the resolution. The bigger the value for *NNN*, the smaller the value for the continuous tone cells and finer the picture. Dithering simulates less gray scales.

The setting is valid for all jobs output to the specified output device. Deviating from the default is not recommended.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- -dDITHERPPI=*NNN*
Number of simulated gray scales due to dithering.

Default: 106 or value from the system section if set

 related top-
ics

→ *GS_DITHER_PARAMS_LOW*, page 333

→ *GS_DITHER_PARAMS_NORMAL*, page 333

→ *GS_DITHER_PARAMS_HIGH*, page 332

GS_DITHER_
PARAMS_HIGH

.....
GS_DITHER_PARAMS_HIGH specifies the number of simulated gray scale steps and the size of the continuous tone cell for the high output quality (PLS_PRINT_QUALITY HIGH job parameter).


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: see GS_DITHER_PARAMS

- -dDITHERPPI=*NNN*
Number of simulated gray scales due to dithering.

Default: 106 or value from the system section if set

 related top-
ics

→ *GS_DITHER_PARAMS*, page 332

..... *To be continued*

Output Device Section, Continuation

.....
GS_DITHER_PARAMS_LOW specifies the number of simulated gray scale steps and the size of the continuous tone cell for the low output quality (PLS_PRINT_QUALITY LOW job parameter).

GS_DITHER_PARAMS_LOW


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: see GS_DITHER_PARAMS

Default: 106 or value from the system section if set

→ [GS_DITHER_PARAMS](#), page 332

 related topics

.....
GS_DITHER_PARAMS_HIGH specifies the number of simulated gray scale steps and the size of the continuous tone cell for the high output quality (PLS_PRINT_QUALITY HIGH job parameter).

GS_DITHER_PARAMS_NORMAL

This keyword can be set for all output devices in the system section.


The keyword is optional.

Available values: see GS_DITHER_PARAMS

- -dDITHERPPI=*NNN*
Number of simulated gray scales due to dithering.

Default: 106 or value from the system section if set

→ [GS_DITHER_PARAMS](#), page 332

 related topics

..... *To be continued*

Output Device Section, Continuation

GS_PARAMS

.....
GS_PARAMS specifies the static parameters of the Ghostscript call with PDF processing (GS_CALL). Depending on the output device, the following assignments apply to the setting of the parameter -sDEVICE. For some output devices, writing all parameters into a file `printername.upp` and setting this file as parameter of GS_PARAMS is useful.

If there is no suitable Ghostscript driver for an output device, specify -sDEVICE=OVER_RC in order to use the raster engine of the PLOSSYS netdome driver. This parameter specifies that Ghostscript generates TIFF first. Then the raster engine of the PLOSSYS netdome output driver converts TIFF into the target format. This option, however, does not allow a color output.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- „-dMaxBitmap=10000000 -sDEVICE=uniprint -dupOutput-Format=/Pcl“
- @printername.upp for HPDeskJet
- @printername.upp for HPDesignJet
- @printername.upp for HPLaserJet
- ps2pdf for generating PostScript in the default level (2 up to and including PLOSSYS netdome 4.8.0, 3 as of PLOSSYS netdome 4.9.0)
- ps2pdf1 for generating PostScript level 1
- ps2pdf2 for generating PostScript level 2
- ps2pdf3 for generating PostScript level 3



related topics

- GS_CALL, page 329
- GS_PARAMS_HIGH, page 334
- GS_PARAMS_LOW, page 335
- GS_PARAMS_NORMAL, page 335

GS_PARAMS_HIGH

.....
GS_PARAMS_HIGH specifies the static parameters of the Ghostscript call with PDF processing (GS_CALL_HIGH).

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: see GS_PARAMS



related topics

- PLOT_MIN_SIZE, page 356

..... To be continued

Output Device Section, Continuation

.....
GS_PARAMS_LOW specifies the static parameters of the Ghostscript call with PDF processing (GS_CALL_LOW).


GS_PARAMS_LOW

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: see GS_PARAMS

→ PLOT_MIN_SIZE, page 356

 related topics

.....
GS_PARAMS_NORMAL specifies the static parameters of the Ghostscript call with PDF processing (GS_CALL_NORMAL).


GS_PARAMS_NORMAL

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: see GS_PARAMS

→ PLOT_MIN_SIZE, page 356

 related topics

.....
GXC_ALLOWED specifies if the GXC engine is used to process certain graphics formats.

GXC_ALLOWED

This keyword can be set for all output devices in the system section.

The GXC Engine is not available for output devices with VGS or VTIL code.

 **Caution**

The keyword is optional.

Available values: Boolean

- N
GXC Engine is not to be used. All graphic formats normally processed by GXC Engine are bypassed without any processing.
- Y
GXC Engine is to be used.

Default: N or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

HARDWARE_COPY

.....
HARDWARE_COPY specifies if the number of copies is written into the metafile.

The keyword is optional.

Available values: Boolean

- Y
The number of copies is written into the metafile.
- N
The number of copies is written into in the metafile.

Default: N

HEADER_OUT-
PUT_CODEPAGE

.....
HEADER_OUTPUT_CODEPAGE specifies the character encoding of the header.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- ORIGINAL
The header is reconverted into its original encoding; thus, a further processing via output scripts or other systems which do not support Unicode is possible. The value of SEAL_ORIGCODEPAGE set by the system during processing is evaluated.
- UTF-8
The header is converted to UTF-8 character encoding.

Default: ORIGINAL or value from the system section if set

INIT_SCRIPT

.....
INIT_SCRIPT specifies the script which is called when starting the output of the job in order to copy the job header and the metafile for a remote output device from PLOSSYS netdome. As this is performed via remote copy, the user of the PLOSSYS netdome system has to be specified with PLOTSERV_USER in the system section.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- „cpfiles.pl“
Name of the initialization script

Default: none or value from the system section if set



related top-
ics

→ *PLOTSERV_USER*, page 279

..... *To be continued*

Output Device Section, Continuation

.....
INTRAY n specifies the type of the selected device tray. n is the tray number. Beginning with INTRAY1, to each existing tray of the device the appropriate type is assigned. The trays are activated by the header item PLS_TRAY_ n . With manually tray selection the output job is also scaled, rotated and output on the appropriate paper format. When selecting the trays by means of the paper size, the non-manual trays are regarded at first. If no tray with the desired paper size is found, an appropriate tray is searched for in the manual trays.

INTRAY n

The keyword is optional.

Available values: String

- ROLL
ROLL
- SHEET
Automatic sheet feeder
- MANUAL
Manual sheet feeder

Default: SHEET

→ [PLOSSYS_PARAM_TEC]

 reference

.....
LOAD_BALANCE_PLOTTER specifies an alternative output device.

LOAD_BALANCE_PLOTTER

The keyword is optional.

Available values: String14

- "*plottername*"

Default: none

..... *To be continued*

Output Device Section, Continuation

MANUAL_TRAY_
AS_IS

.....
MANUAL_TRAY_AS_IS specifies if the internal paper and tray selection of PLOSSYS netdome are deactivated so that the output job will be output with the paper size specified with the job. The manual tray selection (PLS_TRAY_n=INTRAY-MANUAL) has to be activated. The template file of the output driver has to support the functionality.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- Y
- N

Default: N or value from the system section if set



reference

→ [PLOSSYS_PARAM_TEC]

..... *To be continued*

Output Device Section, Continuation

.....
MARK_COLOR has two purposes: On the one hand, PLOT_DISTANCE is realized by means of the marking point, on the other hand, a b/w document in vector format is converted into a color document, thus forcing the creation of a calibration color bar. If reel paper is used, and no other documents will be output after the currently output document for a long time, the output job will remain in the toner for a long time, taking up liquid. A cutter installed after the output device would wrongly interpret this point of absorption as cutting mark. By means of MARK_COLOR, a marking point is output at the distance specified by PLOT_DISTANCE (between the end of the document and the mark); due to the resulting additional feed, the actual document is moved out of the area of the toner. When a b/w document in vector format is output on a color output device, a colored marking point can be used to force the output device to create the reference line, which it only creates with color documents, with b/w documents as well; thus, the document is not shifted down.

MARK_COLOR


The keyword is optional.

Available values: Integer

- *value*
GKS color number for marking point

Default: 0

→ *PLOT_DISTANCE*, page 355

 related topics

.....
MODEL specifies the model type of the output device.

MODEL

The keyword is optional.

Available values: String

- *model type*

Default: none

..... *To be continued*

Output Device Section, Continuation

NATIVE_CODE

.....
NATIVE_CODE specifies the graphic format (code type) of the connected output device. This avoids that wrong output device code is transmitted to the output device. A job is only transmitted to the output device if the value of the PLS_PLOTTYPE header item is identical to NATIVE_CODE or if NATIVE_CODE has been set to ANY_NATIVE.

The keyword is optional.

Available values: List of enumeration

- ANY_NATIVE
other device code, the type is not checked
- C907
CalComp-907 if no GXC Engine
- CALS
CALS Raster type 1 and 2 if no GXC Engine
- CGM
Computer Graphic Metafile
- GREENSHEET
Versatec Raster Format
- HPGL
HPGL if no GXC Engine
- HPGL2
HPGL if no GXC Engine
- IGS-RST
Indigo Rastercode
- IOCA
IBM Rastercode
- PDF
PDF, if no PDF Engine
- PostScript
PostScript
- PRESCRIBE
Kyocera Prescribe
- RTL HP
RTL if no GXC Engine
- TAPE9 VMS
Vector Code if no GXC Engine
- TEK
Tektronix 4015

..... *To be continued*


Output Device Section, Continuation

-
- TIFF
Tiff
 - VRF
Versatec Random Format if no GXC Engine

Default: none

→ *NATIVE_QUEUE*, page 341

→ [PLOSSYS_PARAM_TEC]

 related topics

 reference

NATIVE_QUEUE specifies the graphic format of the output job.

NATIVE_QUEUE


The keyword is optional.

Available values: Boolean

- Y
All output jobs of the output queue are set to ANY_NATIVE.
- N
All output jobs of the output queue maintain the evaluated graphic format.

Default: Y

→ *NATIVE_CODE*, page 340

 related topics

ONE_SET_COPY specifies if the number of copies contained in the set header is evaluated.

ONE_SET_COPY

This keyword can be set for all output devices in the system section.

The keyword is not evaluated with GEKKO.

 hint

The keyword is optional.

Available values: Boolean

- Y
The number of copies contained in the set header is ignored. The set will be output just once.
- N
The number of copies contained in the set header is evaluated.

Default: N or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

ON_PLS_
PAGES_ERROR

.....
ON_PLS_PAGES_ERROR specifies the behavior of the output driver in the event of an incorrect value of the header item PLS_PAGES, that is, in the event of an incorrect evaluation of the page number.

The keyword is optional.

Available values: String

- JOB_ERROR
The output job and all subsequent set members are displayed as erroneous jobs and are not output.
- PRINT_JOB
The output job is completely output.
- IGNORE_JOB
The output job is not output.

Default: JOB_ERROR



reference

→ [PLOSSYS_PARAM_TEC]

OPT_MAX_PLOTS

.....
OPT_MAX_PLOTS specifies the maximum of documents that can be queued for optimization. When there are enough jobs, the optimization is started. Up to OPT_PLOTS_LIMIT jobs can be processed in an optimization.

Only output jobs in the GKSM and CGM format are optimized.



hint

This keyword is only evaluated if OPTIMIZE has been set to Y.

The keyword is optional.

Available values: Integer

- *value*

Default: 0



related top-
ics

→ *OPTIMIZE*, page 345

..... *To be continued*

Output Device Section, Continuation

.....
OPT_MAX_SPACE specifies the maximum total surface area available for the documents queued for optimization. If the total of the documents areas of the queued jobs exceeds this limit, the optimization is started, and the output job is printed out.

OPT_MAX_SPACE

This keyword is only evaluated if OPTIMIZE has been set to Y.



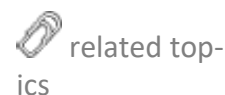
The keyword is optional.

Available values: Float

- *value*
Value in square meters

Default: 0.000000

→ OPTIMIZE, page 345



.....
OPT_MAX_TIME specifies the maximum time for which an output job queued for optimization is to wait before being released. After this time has elapsed, the output job is output without optimization.

OPT_MAX_TIME

Only output jobs in the GKSM and CGM format are optimized.

This keyword is only evaluated if OPTIMIZE has been set to Y.

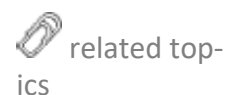


The keyword is optional.

Available values: Integer in seconds

- *seconds*
Value

→ OPTIMIZE, page 345



..... To be continued

Output Device Section, Continuation

OPT_PEN

.....
OPT_PEN specifies if different pen requests for the jobs are taken into account with optimization.

Only output jobs in the GKSM and CGM format are optimized.



hint

This keyword is only evaluated if OPTIMIZE has been set to Y.

The keyword is optional.

Available values: Boolean

- N
Different pen requests are not taken into account with optimization.
- Y
For documents requesting different pens separate optimizations are performed.

Default: OPT_PEN

related top-
ics

→ *OPTIMIZE*, page 345

OPT_PLOTS_LIMIT

.....
OPT_PLOTS_LIMIT specifies the upper limit for the number of jobs used for one optimization package.

Only output jobs in the GKSM and CGM format are optimized.



hint

This keyword is only evaluated if OPTIMIZE has been set to Y.

The keyword is optional.

Available values: Integer

- *value*

Default: 100

related top-
ics

→ *OPTIMIZE*, page 345

..... *To be continued*

Output Device Section, Continuation

.....
OPTIMIZE specifies if output jobs are optimized.

OPTIMIZE

Only output jobs in the GKSM and CGM format are optimized.


The keyword is optional.

Available values: Boolean

- Y
Output jobs are nested for the paper optimization if the output jobs have the priority level 0 or 1.
- N
No paper optimization

Default: N

If the optimization is activated, that is OPTIMIZE=Y, the following keywords are evaluated:

 related topics

→ *OPT_MAX_PLOTS*, page 342

→ *OPT_MAX_SPACE*, page 343

→ *OPT_MAX_TIME*, page 343

→ *OPT_PEN*, page 344

→ *OPT_PLOTS_LIMIT*, page 344

..... *To be continued*

Output Device Section, Continuation

OUTPUT



hint

.....
OUTPUT specifies the output type for controlling the output device.

As of PLOSSYS netdome 4.3.0, the functionality of the output types SPLITMAIL and TEXTMAIL have been assumed by the output type MAIL.

The keyword is mandatory.

Available values: Enumeration

- COPY
- COPYUTF8
- DIRECT
- E-MAIL
- FASTPORT
- FRANS
- FTP
- GLPR
- HPNP
- IPP
- LP
- LPR
- MTFILTER
- MTLPR
- NONE
- PJL
- REMOTE
- ROWE
- ROWERCS
- SELF
- SPLITMAIL
- TEXTMAIL
- USER_DEFINED
- VIEW
- WEBPORTAL
- XPP
- ZPL

Default: none

..... *To be continued*

Output Device Section, Continuation

.....
PAGE_MAX_NUMBER specifies the maximum of page numbers for the output queue. PAGE_MAX_NUMBER

The keyword is optional.

Available values: Integer

- *value*

Default: 10000

.....
PAGE_MIN_NUMBER specifies the minimum of page numbers for the output queue. PAGE_MIN_NUMBER

The keyword is optional.

Available values: Integer

- *value*

Default: 1

.....
PAPER_OPTIONAL specifies the media that can be inserted into the output device. PAPER_OPTIONAL

The keyword is a selection criterion for a pool device.



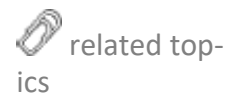
The keyword is optional.

Available values: List of enumeration

- PA
Paper
- TR
Transparency

Default: PA

→ *POOL_FOR_PLOTTER*, page 363



..... *To be continued*

Output Device Section, Continuation

PAPER_SELECT

PAPER_SELECT specifies the tray to which the job is to be output.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration


- AUTO
When the user selects the automatic tray selection, the output device selects the tray (behavior as PAPER_SELECT PAPERSIZE). When he selects a tray, the tray number is passed to the output device (behavior as PAPER_SELECT DRAWER). And when he selects a media type with PLS_TRAY_x, the media type is passed to the output device (behavior as PAPER_SELECT MEDIA).

 hint - MANUAL_TRAY_AS_IS

If you want to use PAPER_SELECT AUTO, you have to set MANUAL_TRAY_AS_IS to Y.


 **Caution** - media selection

PLS_PLOTPAPER cannot be used for selecting the media here.

 examples

With PLS_TRAY_1=INTRAY3, tray 3 is passed to the output device. With PLS_TRAY_1=SP1 and the tray 2 in PLOSSYS netdome is set to SP1, Letterhead is passed to the output device. With PLS_TRAY_1=INTRAYAUTO, the output device receives the command for selecting the tray. With PLS_PLOTPAPER=SP1, the output device also receives the command for selecting the tray.

- DRAWER
Depending on the paper size and the media type, PLOSSYS netdome determines the first appropriate tray and passes the tray number to the output device. If this tray is empty, the output device does not change to the next tray with the same media type. Here, you can use both PLS_PLOTPAPER and PLS_TRAY_x=INTRAYx or PLS_TRAY_x=*medium*.
- MEDIA
Beside the paper size, the media type is passed to the output device and the tray is selected accordingly.

 examples

With PLS_PLOTPAPER=SP1, with PLS_TRAY_1=SP1 or with PLS_TRAY_1=INTRAY1 and the tray 1 in PLOSSYS netdome is set to SP1, always Letterhead (or the equivalent of the correspondent manufacturer) is passed to the output device.

..... *To be continued*

Output Device Section, Continuation

.....
A list of media types supported by most of the manufacturers is used. Unless a media type is supported by a manufacturer, this is mapped to normal paper.

PA: Plain (normal paper)

DB: Color (colored paper)

F0: Transparency (overhead transparency, film)

LI: Thin (thin paper, light paper)

TR: Vellum (tracing paper, sandwich paper, translucent paper)

SP1: Letterhead (letterhead, letter paper, head of the letter)

SP2: Preprinted (preprinted paper)

SP3: Labels (labels)

SP4: Bond (coated paper, higher quality paper)

SP5: Recycled (recycled paper)

SP6: Prepunched (prepunched paper)

SP7: Cardstock (carton)

SP8: Envelope (envelope)


SP9: Rough (rough paper, hand made paper)

SP10: Thick (thick paper, heavy paper)

SP11: Coated (coated paper, glossy paper, photographic paper)

SP12: Highquality (high-quality paper)

At the PLOSSYS netdome queue and at the output device, the applicable media types have to be configured.

 **Caution** -
media mapping

- PAPER_SIZE

No tray number is transmitted to the output device. The output device only receives the size of the particular page selects the output device by itself. Thus, the output device is able to change the tray, for example, if a tray is empty and the same paper is available in another tray.

With PAPER_SELECT PAPER_SIZE, the media types mapped to the trays when starting the output device will be ignored.

An exception with the tray selection by the output device is the selection of a manual tray.

Default: PAPER_SIZE or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

PAPER_TYPE

.....
PAPER_TYPE specifies the paper type to be used when PLS_PLOTPAPER is set to DE in the output job header.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration

- PA
Paper
- TR
Transparency
- FO
Film
- LI
Light-weight Paper
- DB
Cover sheet
- SP1
Special medium 1
- SP2 to SP12
Special medium 2-12
- BE
Any paper type

Default: BE or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

.....
PDF_ALLOWED specifies if processing of PDF jobs is allowed. This is only useful if Ghostscript can generate the suitable output device code. Unless this is the case, PDF processing should be disabled. The output jobs are bypassed.

PDF_ALLOWED

The keyword is mandatory.

Available values: Boolean

- N
No PDF processing possible.
- Y
PDF processing possible

Default: Y


→ *PDF_ALLOW_RELAXED_SYNTAX*, page 351

→ *PDF_NEW_MERGE*, page 352

→ *PDF_TO_PS_CALL*, page 353

→ *PDFA_CHECK*, page 353

→ *PDFA_PROFILE*, page 354

 related topics

.....
PDF_ALLOWED_RELAXED_SYNTAX specifies if the HFT mode is activated for PDF files. The HFT mode allows processing PDF files with small syntax errors.

PDF_ALLOW_RELAXED_SYNTAX

Adobe PDF Library APDFL9.1.0P4z is required.

This keyword can be set for all output devices in the system section.


The keyword is optional.

Available values: Boolean

- Y
The HFT mode is activated.
- N
The HFT mode is deactivated.

Default: Y or value from the system section if set

→ *PDF_ALLOWED*, page 351

 related topics

..... *To be continued*

Output Device Section, Continuation

PDF_IGNORE_
DEFAULT_
DIRECTORIES

.....
PDF_IGNORE_DEFAULT_DIRECTORIES specifies if the system font directories are be scanned for installed fonts.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- Y
The system font directories are not scanned.
- N
The system font directories are scanned.

Default: N or value from the system section if set

PDF_NEW_MERGE


.....
PDF_NEW_MERGE specifies if multiple PDF pages are merged to one page.

The keyword is optional.

Available values: Boolean

- Y
The page contents of several PDF pages are merged to one page. Rotations and transformations of the graphic are executed using functions of the Adobe PDF Library. Transformations of annotations and pattern resources (for example, color gradients) have to be executed explicitly.
- N
The page contents of several PDF pages are merged to one page. Rotations or transformations of the graphic have to be executed explicitly; existing PDF rotations are dissolved. Transformations of annotations and pattern resources (for example, color gradients) have to be executed explicitly. In this case a complex algorithm is used.
The processing of PDF files which include annotations and rotations does not work with PDF_NEW_MERGE=N.

Default: Y

 related topics

→ *PDF_ALLOWED*, page 351

..... *To be continued*

Output Device Section, Continuation

.....
PDF_TO_PS_CALL specifies if a PDF file is converted into PostScript.

PDF_TO_PS_CALL

The keyword is optional.

Available values: Boolean

- Y
The PDF file is converted into PostScript.
- N
The PDF file is not converted into PostScript.

Default: N

.....
PDFA_CHECK specifies if the check program, PDF Checker, is called.

PDFA_CHECK

Files corresponding to the PDF/A norm are much smaller than other PDF files. The creation of PDF/A files is explicitly recommended with the usage of the MAIL output method.


 hint - file size

The keyword is optional.

Available values: Boolean

- Y
PDF Checker is called. The created PDF file is checked for PDF/A conformity. The audit file is generated. The audit file has the same base name and the file extension ".txt" by default.
- N
PDF Checker is called. The audit file is not generated. The validation log is stored beside the PDF/A file. If an error occurs during output the log file, the system aborts the job processing. The job status is set to error. The error is recorded in the log file of the output device queue. If an error occurs while checking the PDF/A conformity, the system aborts the processing and sets the status of the output job to error. The error is recorded in the log file of the output device queue. In case of error, no PDF/A file and audit file is created.

→ *PDF_ALLOWED*, page 351

 related topics

..... *To be continued*

Output Device Section, Continuation

PDFA_PROFILE

PDFA_PROFILE specifies the profile used for the PDF/A creation.



hint

The keyword is only evaluated for the output type output=COPY.

The keyword PDF_ALLOWED has to be set to Y.

The keyword DUPLEX_GENERATE has to be set to NEVER.

The keyword is optional.

Available values: String

- „/PDFA“
Valid settings are specified in the Ghostscript configuration file, tools/
gs<versionnumber>/Resource/Init/PDFA2_def.ps.
- „“
PDF is generated which is not conform to PDF/A

Default: /PDFA



related top-
ics

→ *OUTPUT*, page 346

→ *PDF_ALLOWED*, page 351

→ *DUPLEX_GENERATE*, page 312

PEN_TYPE

PEN_TYPE specifies the pen type used when PLS_PLOTPEN is set to DE in the job header.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration

- KU
Ballpoint pen, e. g. different colors
- TU
Ink, e. g. different line width
- BE
Any pen type

Default: BE or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

.....
PICKUP_QUEUE specifies if the output device is used for Secure&Pickup Printing.

PICKUP_QUEUE

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- Y
The output queue is used for Secure&Pickup Printing.
- N
The output queue is not used for Secure&Pickup Printing.

Default: N or value from the system section if set

.....
PLOT_DISTANCE specifies the distance between two consecutive documents in the direction of movement. In addition to the hardware-related distance, a further distance is output. If the optimization is activated, the distance is output after an optimization package. This setting is useful with certain cutters.

PLOT_DISTANCE


The keyword is optional.

Available values: Float in meter

- *value*

Default: 0.0.

→ *MARK_COLOR*, page 339

 related topics

.....
PLOT_MAX_SIZE specifies the maximum size of the output jobs. The output device is to output only jobs smaller than or equal to the specified size. This default maximum size means that the maximum size is not restricted.

PLOT_MAX_SIZE

The keyword is a selection criterion for a pool device.

 hint

The keyword is optional.

Available values: 2 Float in meter

- *width height*

Default: 0.000 0.000

..... *To be continued*

Output Device Section, Continuation

PLOT_MIN_SIZE

.....
PLOT_MIN_SIZE specifies the minimum size of the output jobs. The output device is to output only jobs larger than or equal to the specified size. This default minimum size means that the minimum size is not restricted.



hint

The keyword is a selection criterion for a pool device.

The keyword is optional.

Available values: 2 Float in meter

- *width height*

Default: 0.000 0.000

.....

PLOT_SPEED

PLOT_SPEED specifies the output speed of the output device. A larger value means a faster output device in comparison with other output devices.



hint

The keyword is a selection criterion for a pool device.

The keyword is optional.

Available Values: Integer < 0

- *value*

Default: 1

.....

PLOTTER_COMMENT

PLOTTER_COMMENT specifies a free text which can be used to describe the output device for example.

The keyword is optional.

Available values: String99

- *"free_text"*

Default: ""

.....

PLOTTER_-
CONS_NAME

PLOTTER_CONS_NAME specifies the name of the output device in the console.

The keyword is optional.

Available values: String29

- *"name"*

Default: Value of PLOTTER_NAME.

.....

To be continued

Output Device Section, Continuation

.....
PLOTTER_DEPARTMENT specifies the department text shown in the console.

PLOTTER_
DEPARTMENT

The keyword is optional.

Available values: String49

- “text”

Default: “”

.....
PLOTTER_DRIVER specifies the output driver. With the specification of the concrete output driver, links from the output driver to the name of the output devices in the server\plotserv\bin_\$PLS_OSFULLNAME directory are obsolete. The output driver is started with the name of the output device as parameter.

PLOTTER_DRIVER


The keyword is mandatory.

Available values: String49

- “hpgl2_vr_tiff”
name of the output driver

Default: PLOTTER_NAME

→ *PLOTTER_NAME*, page 358

 related topics

.....
PLOTTER_ISOANSI specifies which of the ACTIVE_ISO, ACTIVE_ANSI or ACTIVE_BOTH sections in the output device configuration file is relevant in order to identify the current available paper formats.

PLOTTER_ISOANSI

This keyword can be set for all output devices in the system section.

The keyword is optional.


Available values: Enumeration

- ANSI
The output device uses ANSI format.
- BOTH
The output device uses ANSI and ISO formats. DIN A4 is output to ANSI A if DIN A4 is not available at the printer and ANSI A is output to DIN A4 if ANSI A is not available.
- ISO
The output device uses ISO format.

Default: ISO or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

 hint -
scaling

.....

DIN A4 is about 18 mm longer than ANSI A. With an additional border, further 22 mm would be cut at the top if DIN A4 is output to ANSI A using DIN scaling. With PLOTTER_ISOANSI=BOTH and DIN scaling, set DINSCL_TOLERANCE to 0.015 in plossys.cfg therefore. Then, maximum scaling is used when outputting DIN A4 to ANSI A. The document is scaled down and nothing is cut.

→ *DINSCL_TOLERANCE*, page 308

PLOTTER_
LOCATION

.....

PLOTTER_LOCATION specifies the location of the output device. The value is displayed in PLOSSYS OCON as location information.

The keyword is optional.

Available values: String49

- “*location*”
Text which describes the location of the output device

Default: “”

PLOTTER_NAME

.....


PLOTTER_NAME specifies the name of the output device. Unless an explicit configuration name is specified with CONFIG, the name of the output device is used to search for the associated configuration files in the server\plotserv\plotter directory. Unless an explicit output driver is specified with PLOTTER_DRIVER either, an output driver with the name of the output device in the has to be available in the server\plotserv\bin_\$PLS_OSFULLNAME directory.

The keyword is mandatory.

Available values: String29

- “*printer_name*”

Default: none

 related top-
ics

→ *CONFIG*, page 295

→ *PLOTTER_DRIVER*, page 357

PLOTTER
_NUM_OF_DRAWERS

.....

PLOTTER_NUM_OF_DRAWERS specifies the number of trays or rolls.

The keyword is mandatory.

Available values: Integer [0,...12]

Default: 2

..... *To be continued*

Output Device Section, Continuation

.....
PLOTTER_TIMEOUT specifies the time interval the manager process waits for a feedback from the output device before it generates an error message.

PLOTTER_TIMEOUT

The keyword is optional.

Available values: Integer in seconds

- *seconds*
Value
- 0
No monitoring
Monitoring is recommended for raster conversion due to the conversion may take a long time depending on the file size.

Default: 0

.....
PLS_OPERATOR_MAIL specifies the e-mail address to which a notification mail will be sent in case of changes in the system. Such changes are, for example, job or device errors or starting, stopping or redirecting of an output queue. In these cases, Infoserver starts the `issendmail.pl` script that uses the e-mail address specified here.

PLS_OPERATOR_MAIL

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- `"mailserver/name@mailserver.de"`

Default: none

..... *To be continued*

Output Device Section, Continuation

PLS_OPMAIL_
CONDITIONS

.....
PLS_OPMAIL_CONDITIONS specifies the conditions under which the Infoserver sends an e-mail to the e-mail address specified with the PLS_OPERATOR_MAIL keyword. The conditions have to be specified separated by blanks and included in quotation marks. This keyword can also be set in the [GATE] section.

This keyword can be set for all output devices in the system section.



hint

STATION_JOB_ERROR is not evaluated for PLOSSYS netdome 4.4.0.

The keyword is optional.

Available values: String

- JOB_OK
Output job finished
- JOB_FAILURE
Output job erroneous
- DEVICE_ERROR
Device error
- STATION_ERROR
Error in a gate
- STATION_JOB_ERROR
Conversion error; if the job processing in a gate ends with an error and creates a missing sheet or an error sheet is created by the gate25.pl script, an e-mail is sent to the e-mail address specified with PLS_OPERATOR_MAIL. PLS_OPERATOR_MAIL has to be set in the [GATE] section in this case.

Default: none or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

.....
PLS_UPLOAD specifies if an output device is visible in a connected SAP system.

PLS_UPLOAD

Mainly, the keyword is used in connection with output devices that belong to a pool. Often, it is desired that only the pool output device can be seen in SAP and not the correspondent output devices. In order to display all output devices belonging to the pool, PLS_UPLOAD has to be set to N.



This keyword can be set for all output devices in the system section.

Available values: Boolean

- N
The output device is not considered in /DVSREPRO/PLS_UPLOAD and not displayed in SAP.
- Y
The output device is considered in /DVSREPRO/PLS_UPLOAD and displayed in SAP.

Default: N or value from the system section if set

→ *POOL_FOR_PLOTTER*, page 363

.....
POD_ALLOWED specifies if POD processing is available.

POD_ALLOWED

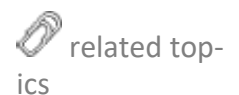
This keyword can be set for all output devices in the system section.

Available values: Boolean

- N
POD processing is disabled.
- Y
POD processing is enabled.

Default: N or value from the system section if set

→ *POD_PLOTTERTYPE*, page 362



..... *To be continued*

Output Device Section, Continuation

POD_PLOTTERTYPE

POD_PLOTTERTYPE specifies the printer type for POD processing. The specified output device type is passed on to the output script if POD processing is enabled (POD_ALLOWED=Y). Unless a value can be evaluated for POD_PLOTTERTYPE or if an empty string is entered in the configuration, POD_ALLOWED is set to N. When the output script is called, POD_PLOTTERTYPE is passed using the `-pod_plottertype` option if the POD processing is activated.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- ""

Default: none or value from the system section if set

 related topics

→ *POD_ALLOWED*, page 361

POOL_COLLECT_SPLITTINGOFF


POOL_COLLECT_SPLITTINGOFF specifies if set collations output to a pool device can be split among several output devices. The set with missing sheets can be output to a primary pool device in order to facilitate the re-insertion of the redirected set members. If several subsequent set members are redirected to different output devices, either an separate missing sheet for each redirected set member or a collective missing sheet can be output.

The keyword is optional.

Available values: Boolean

- N
Collective missing sheets are not created.
- Y
Collective missing sheets are created.

Default: N

 related topics

→ *POOL_FOR_PLOTTER*, page 363

..... *To be continued*

Output Device Section, Continuation

.....
POOL_FOR_PLOTTER specifies if a pool device is used and which output devices belong to the pool device.

POOL_FOR_PLOTTER

The PDF_ALLOWED keyword has to be set to Y.



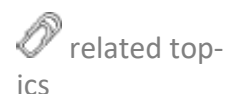
The keyword is optional.

Available values: List of String29

- *device_1 device_2 device_3*
individual printer belonging to the pool device

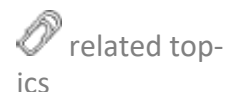
Default: none

Selection criteria



- GRAPHIC_TYPE, page 328
- PAPER_OPTIONAL, page 347
- PLOT_MAX_SIZE, page 355
- PLOT_MIN_SIZE, page 356
- PLOT_SPEED, page 356
- POOL_PRIO_PLOT_MIN_SIZE, page 371
- POOL_PRIO_BW_TYPE, page 367
- POOL_PRIO_COLOR_TYPE, page 368
- POOL_PRIO_FOLDER_BYPASS, page 368
- POOL_PRIO_FOLDER_MAX_SIZE, page 369
- POOL_PRIO_MEDIUM, page 370
- POOL_PRIO_PLOT_MAX_SIZE, page 371
- POOL_PRIO_PLOT_MIN_SIZE, page 371
- POOL_SET_SEPARATE, page 372

Configuration:



- POOL_COLLECT_SPLITTINGOFF, page 362
- POOL_GENERATE_SPLITTINGOFF, page 364
- POOL_PAGES_SEPARATE, page 364
- POOL_PAGES_TOLERANCE, page 365
- POOL_PAP_FOR_SPLITTINGOFF, page 366
- POOL_PLT_FOR_SPLITTINGOFF, page 367
- POOL_STANDALONE_SPLITTINGOFF, page 372

..... To be continued

Output Device Section, Continuation

POOL_
GENERATE_
SPLITTINGOFF


.....
POOL_GENERATE_SPLITTINGOFF specifies if error sheets are generated for the set members when outputting to a pool device.

The keyword is optional.

Available values: Boolean

- N
Missing pages are not created.
- Y
Missing pages are created.

Default: N

 related topics

→ POOL_FOR_PLOTTER, page 363

POOL_PAGES_
SEPARATE


.....
POOL_PAGES_SEPARATE specifies if the set collation is split according to the medium size of the output device while outputting to a pool device.

The keyword is optional.

Available values: Boolean

- Y
The set is split.
- N
The set is not split.

Default: N

 related topics

→ POOL_FOR_PLOTTER, page 363

..... *To be continued*

Output Device Section, Continuation

.....
POOL_PAGES_TOLERANCE specifies the tolerance for the evaluation of the paper size in the X and Y direction.

POOL_PAGES_TOLERANCE

If the paper size distinguishes to which device of a pool device a page of a job is sent to, the POOL_PAGES_TOLERANCE keyword is evaluated.

The tolerance values from the correspondent configuration data of the output device (VECTOR_TOLERANCE, RASTER_TOLERANCE) are not used.

The keyword is optional.


Available values: Float in meter

- *value*
Value

Default: 0.005

→ *POOL_FOR_PLOTTER*, page 363

..... *To be continued*

 related topics

Output Device Section, Continuation

POOL_PAP_FOR_
SPLITTINGOFF

.....
POOL_PAP_FOR_SPLITTINGOFF specifies the medium for the missing sheets for the redirected set member in the case of the output of a job set to a pool device.


This keyword is only evaluated if POOL_GENERATE_SPLITTINGOFF has been set to Y.

The keyword is optional.

Available values: Enumeration

- BE
Any
- DE
Default
- PA
Paper
- TR
Transparency
- FO
Film
- LI
Light-weight Paper
- DB
Cover sheet
- SP1
Special medium 1
- SP2 to SP12
Special medium 2-12

Default: BE

 related topics

→ *POOL_FOR_PLOTTER*, page 363

..... *To be continued*

Output Device Section, Continuation

.....
POOL_PLT_FOR_SPLITTINGOFF specifies the output device for outputting the missing sheets of the redirected set member when outputting a set collation to a pool device.

POOL_PLT_FOR_SPLITTINGOFF

This keyword is only evaluated if POOL_GENERATE_SPLITTINGOFF has been set to Y.


The keyword is optional.

Available values: String14

- „*printer*“
Primary pool device for output missing sheets

Default: none

→ POOL_FOR_PLOTTER, page 363

 related topics

.....
POOL_PRIO_BW_TYPE specifies if b/w jobs are output only to b/w devices.

POOL_PRIO_BW_TYPE

The keyword specifies the priority of a selection criteria for a pool device. As priorities for important criteria, any positive numbers can be set. The higher the number, the more important it is that the respective property is fulfilled. Thus, a priority of 0 means that this property is not important.

 hint


The keyword is optional.

Available values: Integer

- *value*

Default: 1

→ POOL_FOR_PLOTTER, page 363

 related topics

..... *To be continued*

Output Device Section, Continuation

POOL_PRIO_
COLOR_TYPE



hint

.....
POOL_PRIO_COLOR_TYPE specifies if colored output jobs are printed in color.

The keyword specifies the priority of a selection criteria for a pool device. As priorities for important criteria, any positive numbers can be set. The higher the number, the more important it is that the respective property is fulfilled. Thus, a priority of 0 means that this property is not important.

The keyword is optional.

Available values: Integer

- *value*

Default: 1



related top-
ics

→ *POOL_FOR_PLOTTER*, page 363

POOL_PRIO_
FOLDER_BYPASS



hint

.....
POOL_PRIO_FOLDER_BYPASS specifies if output jobs not to be folded are output unfolded.

The keyword specifies the priority of a selection criteria for a pool device. As priorities for important criteria, any positive numbers can be set. The higher the number, the more important it is that the respective property is fulfilled. Thus, a priority of 0 means that this property is not important.

The keyword is optional.

Available values: Integer

- *value*

Default: 1



related top-
ics

→ *POOL_FOR_PLOTTER*, page 363

..... *To be continued*

Output Device Section, Continuation

.....
POOL_PRIO_FOLDER_MAX_SIZE specifies if the current output job size can be folded.

POOL_PRIO_FOLDER_MAX_SIZE

The keyword specifies the priority of a selection criteria for a pool device. As priorities for important criteria, any positive numbers can be set. The higher the number, the more important it is that the respective property is fulfilled. Thus, a priority of 0 means that this property is not important.



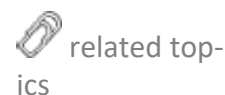
The keyword is optional.

Available values: Integer

- *value*

Default: 1

→ *POOL_FOR_PLOTTER*, page 363



.....
POOL_PRIO_PAGE_MIN_NUMBER specifies the minimum of page numbers for the output queue.

POOL_PRIO_PAGE_MIN_NUMBER

The keyword specifies the priority of a selection criteria for a pool device. As priorities for important criteria, any positive numbers can be set. The higher the number, the more important it is that the respective property is fulfilled. Thus, a priority of 0 means that this property is not important.

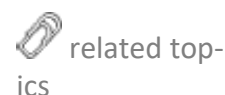
The keyword is optional.

Available values: Integer

- *value*

Default: 1

→ *POOL_FOR_PLOTTER*, page 363



..... *To be continued*

Output Device Section, Continuation

POOL_PRIO_
PAGE_MAX_NUMBER

.....
POOL_PRIO_PAGE_MAX_NUMBER specifies the maximum of page numbers for the output queue.


The keyword specifies the priority of a selection criteria for a pool device. As priorities for important criteria, any positive numbers can be set. The higher the number, the more important it is that the respective property is fulfilled. Thus, a priority of 0 means that this property is not important.

The keyword is optional.

Available values: Integer

- *value*

Default: 1

 related topics

→ *POOL_FOR_PLOTTER*, page 363

POOL_PRIO_
MEDIUM

.....
POOL_PRIO_MEDIUM specifies if the set medium has to be available.

 hint


The keyword specifies the priority of a selection criteria for a pool device. As priorities for important criteria, any positive numbers can be set. The higher the number, the more important it is that the respective property is fulfilled. Thus, a priority of 0 means that this property is not important.

The keyword is optional.

Available values: Integer

- *value*

Default: 1

 related topics

→ *POOL_FOR_PLOTTER*, page 363

..... *To be continued*

Output Device Section, Continuation

.....
POOL_PRIO_PLOT_MAX_SIZE specifies if the output job has to be output 1:1.

POOL_PRIO_PLOT_MAX_SIZE

The keyword specifies the priority of a selection criteria for a pool device. As priorities for important criteria, any positive numbers can be set. The higher the number, the more important it is that the respective property is fulfilled. Thus, a priority of 0 means that this property is not important.



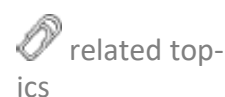
The keyword is optional.

Available values: Integer

- *value*

Default: 1

→ *POOL_FOR_PLOTTER*, page 363



.....
POOL_PRIO_PLOT_MIN_SIZE specifies if the output job has to have a certain minimum size.

POOL_PRIO_PLOT_MIN_SIZE

The keyword specifies the priority of a selection criteria for a pool device. As priorities for important criteria, any positive numbers can be set. The higher the number, the more important it is that the respective property is fulfilled. Thus, a priority of 0 means that this property is not important.



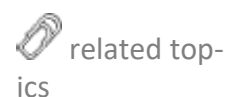
The keyword is optional.

Available values: Integer

- *value*

Default: 1

→ *POOL_FOR_PLOTTER*, page 363



..... *To be continued*

Output Device Section, Continuation

POOL_SET_SEPARATE


.....
POOL_SET_SEPARATE specifies if the output job is held together when being output via a pool device.

The keyword is optional.

Available values: Boolean

- N
The set collation is not split.
- Y
When outputting to a pool device, a set collation can be split among several devices.

Default: N

 related topics

→ *POOL_FOR_PLOTTER*, page 363

POOL_STANDALONE_SPLITTINGOFF


.....
POOL_STANDALONE_SPLITTINGOFF specifies if single or collective missing sheets are output to the main printer when outputting to a pool device although no document is output to the main printer.

The keyword is optional.

Available values: Boolean

- N
No single or collective missing sheets are output to the main printer.
- Y
Single or collective missing sheets are output to the main printer although no other documents are output to the main printer.

Default: N

 related topics

→ *POOL_FOR_PLOTTER*, page 363

PORT_OR_SCRIPT

.....
PORT_OR_SCRIPT specifies the name of the output script used for output with the output device. The output script has to be available in the server\plotserv\plotter directory.

The keyword is optional. If the keyword does not exist, warnings are output.

Available values: String80

- *"printer.pl"*
Name of the output script

Default: generic.pl

..... *To be continued*

Output Device Section, Continuation

.....
PROCESS_PRIORITY specifies the process priority of the output process. The lower the system nice level of a process, the higher the priority level assigned to it. Thus, the default process priority 0 remains unchanged, that means, the process gets the same priority as the manager (normally a system nice level of 20).

PROCESS_
PRIORITY

The keyword is optional.

Available values: Integer (-20...20)

- *value*
„System nice level“ of the output process

Default: 0

.....
PrinterGroup specifies the name of the device group. Several output devices are combined to a logical device group. The output device is assigned to a logical device group via PLOSSYS OCON.

PrinterGroup

The keyword is optional.

Available values: String

- „*device_group*“
Logical name of the device group

Default: none

→ [OCON_ONL]

 reference

.....
PRINTER_VISIBLE specifies if the output device is visible in the PLOSSYS netdome clients. This is case-insensitive.

PRINTER_VISIBLE

The keyword is optional.

Available values: Boolean

- N
- Y

Default: Y

→ [OCON_ONL]

 reference

..... *To be continued*

Output Device Section, Continuation

PRINT_
QUALITY_LOW

.....
PRINT_QUALITY_LOW specifies the quality with which the output job is output. If PLS_PRINT_QUALITY is set to LOW, it is checked if PRINT_QUALITY_LOW in the output device section of plossys.cfg is specified. If this is the case, the job is output in the quality which is configured at the output device for the value LOW.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- LOW

Default: LOW or value from the system section if set

 related topics

→ *PRINT_QUALITY_NORMAL*, page 374

→ *PRINT_QUALITY_HIGH*, page 375

 reference

→ [PLOSSYS_PARAM_TEC]

PRINT_
QUALITY_NORMAL

.....
PRINT_QUALITY_NORMAL specifies the quality with which the output job is output. If PLS_PRINT_QUALITY is set to NORMAL, it is checked if PRINT_QUALITY_NORMAL in the output device section of plossys.cfg is specified. If this is the case, the job is output in the quality which is configured at the output device for the value NORMAL.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- NORMAL

Default: NORMAL or value from the system section if set

 related topics

→ *PRINT_QUALITY_LOW*, page 374

→ *PRINT_QUALITY_HIGH*, page 375

 reference

→ [PLOSSYS_PARAM_TEC]

..... *To be continued*

Output Device Section, Continuation

.....
PRINT_QUALITY_HIGH specifies the quality with which the output job is output. If PLS_PRINT_QUALITY is set to HIGH, it is checked if PRINT_QUALITY_HIGH in the output device section of plossys.cfg is specified. If this is the case, the output job is output in the quality which is configured at the output device for the value HIGH.

PRINT_ QUALITY_HIGH

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String


- HIGH

Default: HIGH or value from the system section if set

→ PRINT_QUALITY_LOW, page 374

→ PRINT_QUALITY_NORMAL, page 374

→ [PLOSSYS_PARAM_TEC]

 related topics

 reference

.....
PSPRAE_CALL specifies the script for evaluating the size of the PostScript file when outputting via Colorflare. If the output does not use Colorflare, the size specified in the header is used.

PSPRAE_CALL

This keyword is only evaluated if the output is via Colorflare.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- „script_name“
Script for evaluating the output job size

Default: "" or value from the system section if set

.....
QUEUE specifies the name of the output device.

QUEUE

The keyword is mandatory.

Default: none

For further information, contact your Technical Project Manager at SEAL Systems.

 hint

Default:

..... *To be continued*

Output Device Section, Continuation

RASTER_BW_OFF-
SET

.....
RASTER_BW_OFFSET specifies the value to be added in the X direction. With the output of color output jobs, some types of output devices, such as color electrostatic printers, use a reference line for correct positioning. When b/w documents are output, no reference line is used; thus, these output jobs are shifted down. In order to prevent this with raster output jobs, an appropriate distance to the border of the paper is set with RASTER_BW_OFFSET; b/w documents are shifted up by this value.

The keyword is optional.

Available values: Integer in meter

- *value*
values

0.000000

REG_NAME

REG_NAME specifies if a unique name is assigned to the spool file via GEKKO.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- N
A unique name will not be assigned.
- Y
A unique name will be assigned.

Default: N or value from the system section if set

ROUTE_MET_TO_SP

.....
ROUTE_MET_TO_SP specifies if the metafile will be copied to the spool directory if the job is bypassed or if the p1odummy driver will be used.

The keyword is optional.

Available values: Boolean

- N
The metafile will not be copied.
- Y
The metafile will be copied.

Default: N

..... *To be continued*

Output Device Section, Continuation

.....
SAVE_SPOOLFILE specifies if the spool files created by GEKKO are to be saved in the %PLSDATA%\plotserv\spoolfiles*queue*name directory. SAVE_SPOOLFILE

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- N
The spool file will not be saved.
- Y
The spool file will be saved.

Default: N or value from the system section if set

.....
SCALE_TO_TRAY specifies if the output job is scaled to the output format of the loaded tray media if tray selection is explicitly set via the header item PLS_TRAY_x. SCALE_TO_TRAY

The keyword is optional.

Available values: Boolean

- NO
The tray with the optimum media size is used (PLS_TRAY_n = INTRAYAUTO).
- YES
If tray selection is explicitly set (PLS_TRAY_x=INTRAYn), the output job is scaled to the output format of the loaded tray media.

Default: YES

→ [PLOSSYS_PARAM_TEC]



..... *To be continued*

Output Device Section, Continuation

SCHEDULE_TYPE


.....
SCHEDULE_TYPE specifies the scheduling behavior of the correspondent output driver's process.

The keyword is optional.

Available values: Enumeration

- NO
The output driver is always started.
- FULL
The output driver is started when an output job is to be output. The SCHEDULE_MAXPROCESS keyword specifies the maximum of simultaneously started output driver processes. The processes of the various output devices are thereby started sequentially and thus independently of the number of jobs in the respective output queue, according to a round robin method.

Default: Value of DEF_SCHEDULE_TYPE

 related topics

- DEF_SCHEDULE_INACTIVE, page 271
- DEF_SCHEDULE_MAXJOBS, page 272
- DEF_SCHEDULE_MAXLIVETIME, page 272
- DEF_SCHEDULE_TYPE, page 273
- SCHEDULE_MAXPROCESS, page 281
- SCHEDULE_INACTIVE, page 378
- SCHEDULE_MAXJOBS, page 379

SCHEDULE_INACTIVE


.....
DEF_SCHEDULE_INACTIVE specifies the time interval after which an inactive output driver process is stopped.

The keyword is optional.

Available values: Integer

- 0
The keyword is not considered.

Default: Value of DEF_SCHEDULE_TYPE

 related topics

- DEF_SCHEDULE_INACTIVE, page 271
- SCHEDULE_TYPE, page 378

..... *To be continued*

Output Device Section, Continuation

.....
DEF_SCHEDULE_MAXJOBS specifies the number of jobs after which a process is restarted.

SCHEDULE_MAXJOBS


The keyword is optional.

- 0
The keyword is not considered.

Default: Value of DEF_SCHEDULE_MAXJOBS

→ SCHEDULE_TYPE, page 378

→ DEF_SCHEDULE_MAXJOBS, page 272

 related topics

.....
SCHEDULE_MAXLIVETIME specifies the maximum lifetime of an output driver process.

SCHEDULE_MAXLIVETIME

The keyword is optional.


Available values: Integer in seconds

- 0
The keyword is not considered.

Default: Value of DEF_SCHEDULE_MAXLIVETIME

→ DEF_SCHEDULE_MAXLIVETIME, page 272

→ SCHEDULE_TYPE, page 378

 related topics

.....
SCRIPT_TYPE specifies the output method for the output device. The default output method of PLOSSYS netdome starts the script of the output device for each output job. With the method GEKKO, all spool files belonging to an output job are combined and transferred to the output device.

SCRIPT_TYPE

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration

- OLD
Default output method
- GEKKO
Output method with asynchronous call of the output device script by the output driver.

Default: OLD or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

SETCOLLATION_
ORDER

.....
SETCOLLATION_ORDER specifies the order of the output of the set members of a set collation.

The keyword is optional.

Available values: Enumeration

- FORWARD
The members of a set collation are output in the order in which they are listed in the set header.
- BACKWARD
The members of a set collation are output in reversed order in which they are listed in the set header.

Default: FORWARD

SHOW_PAPER

.....
SHOW_PAPER specifies if the paper type is displayed in the output device information in PLOSSYS OCON.

The keyword is optional.

Available values: Boolean

- N
- Y

Default: y

SHOW_PEN

.....
SHOW_PEN specifies if the pen type is displayed in the output device information in PLOSSYS OCON.

The keyword is optional.

Available values: Boolean

- Y
- N

Default: N

..... *To be continued*

Output Device Section, Continuation

.....
SINGLE_PAGE_MONITORING specifies if SEAL Spooler sends each label separately to the output device with the ZPL output method and output jobs containing multiple labels. SEAL Spooler checks for each label if it is output and sends only then the next label to the output devices.

SINGLE_PAGE_MONITORING

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- Y
SEAL Spooler checks if a label is output and sends only then the next label to the output devices.
- N
SEAL Spooler sends all labels to the output device. There is no reply of the output.

Default: N

.....
SPLIT_MARKER_MARGIN specifies the distance from the bottom border of the overlapping area specified by SPLIT_Y_OVL.

SPLIT_MARKER_MARGIN

This keyword can be set for all output devices in the system section.

The PLOSSYS netdome option SPLITplot is required.

The keyword is optional.

Available values: Float in meter

- *value*


Default: 0.03 or value from the system section if set

→ *SPLIT_MARKER_RADIUS*, page 382

→ *SPLIT_TEXT*, page 382

→ *SPLIT_X_OVL*, page 383

→ *SPLIT_Y_OVL*, page 383

 related topics

..... *To be continued*

Output Device Section, Continuation

SPLIT_
MARKER_RADIUS

.....
SPLIT_MARKER_RADIUS specifies the radius of the split marker's crosshair.

This keyword can be set for all output devices in the system section.


The PLOSSYS netdome option SPLITplot is required.

The keyword is optional.

Available values: Float in meter

- *value*
Value

Default: 0.007 or value from the system section if set

 related top-
ics

→ *SPLIT_MARKER_MARGIN*, page 381

→ *SPLIT_TEXT*, page 382

→ *SPLIT_X_OVL*, page 383

→ *SPLIT_Y_OVL*, page 383

SPLIT_TEXT

.....
SPLIT_TEXT specifies if an additional text is output when splitting. If a document is split and SPLIT_TEXT corresponds to the split type specified in the job header, the following text is printed centered at the bottom border of the document inside the document: Split part x of y.

This keyword can be set for all output devices in the system section.


The PLOSSYS netdome option SPLITplot is required.

The keyword is optional.

Available values: Enumeration

- NONE
No split text
- DIN
Split text with DIN splitting
- XYSPLIT
Split text with X/Y splitting
- YSCAL_XSPLIT
Split text with X splitting/Y scaling

Default: NONE or value from the system section if set

 related top-
ics

→ *SPLIT_MARKER_MARGIN*, page 381

→ *SPLIT_MARKER_RADIUS*, page 382

→ *SPLIT_X_OVL*, page 383

→ *SPLIT_Y_OVL*, page 383

..... *To be continued*

Output Device Section, Continuation

.....
SPLIT_X_OVL specifies the overlapping in X direction of the individual parts of the oversized document that has been split according to the SPLIT function.

SPLIT_X_OVL

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Float in meter

- *value*

Default: 0.100 or value from the system section if set

→ *SPLIT_MARKER_MARGIN*, page 381

→ *SPLIT_MARKER_RADIUS*, page 382

→ *SPLIT_TEXT*, page 382

→ *SPLIT_Y_OVL*, page 383



related topics

.....
SPLIT_Y_OVL specifies the overlapping in Y direction of the individual parts of the oversized document that has been split according to the SPLIT function.

SPLIT_Y_OVL

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Float in meter

- *value*

Default: 0.100 or value from the system section if set

→ *SPLIT_MARKER_MARGIN*, page 381

→ *SPLIT_MARKER_RADIUS*, page 382

→ *SPLIT_TEXT*, page 382

→ *SPLIT_X_OVL*, page 383

..... *To be continued*

Output Device Section, Continuation

START_MODE

START_MODE specifies the state of the output driver when starting PLOSSYS netdome.

The keyword is optional.

Available values: Enumeration

- NEVER
Always stopped, that means the output driver has to be explicitly started via the console after starting PLOSSYS netdome.
- USE_LAST_STATE
The output driver is set to the state which it had, when PLOSSYS netdome was stopped last.
- ALWAYS
The output driver is always started.

Default: USE_LAST_STATE

STATISTIC_
OUTPUT


STATISTIC_OUTPUT specifies if the data of a given job will be stored in the statistics file, `statistics.log`, in the `%PLSDATA%\log` directory. The format of the statistics file is specified via the items `STATISTICS_OUTPUT_CODEPAGE` and `STATISTICS_FORMAT`.

The keyword is mandatory.

Available values: Boolean

- Y
Statistic information is added to the statistics file.
- N
Statistic information is not added to the statistics file.

Default: Y

 related topics

→ *STATISTICS_FORMAT*, page 282

→ *STATISTICS_OUTPUT_CODEPAGE*, page 283

..... *To be continued*

Output Device Section, Continuation

.....
STATUS_ENABLED specifies if a basic message of the output device is passed to the output script for evaluation.

STATUS_ENABLED

This keyword can be set for all output devices in the system section.


The keyword is optional.

Available values: Boolean

- Y
Basic messages of the output device, for example, „Spool file does not exist“ or „No connection to printer queue“, are returned to the output device script. This information is available for all output devices.
- N
No basic information are returned to the output device script.

Default: N or value from the system section if set

→ STATUS_PARSER, page 385

 related topics

.....
STATUS_PARSER specifies if extended status information of the output device, for example, "Toner is empty", is sent to the output script for further analysis. This keyword is only evaluated if STATUS_ENABLED has been set to Y.

STATUS_PARSER

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: List of enumeration

- PJL
Specification of the format for reading the status messages from the output device.



hint - only PJL:

At the moment, only PJL is supported.

Default: PJL or value from the system section if set

→ STATUS_ENABLED, page 385

..... *To be continued*

Output Device Section, Continuation

STPFILE

STPFILE specifies the layout of the stamp file. The file has to be available in the server\plotserv\plotter directory. Unless the keyword is set, the default stamp layout file, *outputdevice.stp*, in the server\plotserv\plotter directory is used.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: String

- „*stamplayoutfile*“
any stamp layout file

Default: server\plotserv\plotter\device.stp



reference

→ [STAMP_USR]

SYS_CHECK_STATUS

SYS_CHECK_STATUS specifies if an UNIX output queue is monitored.

The keyword is optional.

Available values: Boolean

- N
No queue monitoring
- Y
Queue monitoring

Default: N



related topics

If the monitoring has been activated (SYS_CHECK_STATUS=Y), the following keywords are evaluated:

→ *SYS_CHECK_TIMEOUT*, page 387

→ *SYS_MAX_QUEUE_LEN*, page 387

..... *To be continued*

Output Device Section, Continuation

.....
SYS_CHECK_TIMEOUT specifies the time interval after which the queue control is timed out and the return status is evaluated.

SYS_CHECK_TIMEOUT

This keyword is only evaluated if SYS_CHECK_STATUS has been set to Y.


The keyword is optional.

Available values: Integer in seconds

- *value*
Time interval

Default: 300

→ [SYS_CHECK_STATUS](#), page 386

 related topics

.....
SYS_MAX_QUEUE_LEN specifies the maximum of output jobs in the UNIX output queue. If the number of output job in the UNIX output queue exceeds the maximum of output job for a relatively long time, it is assumed that the printer is no longer working (for example, the printer has run out of paper), and operation is requested.

SYS_MAX_QUEUE_LEN

This keyword is only evaluated if SYS_CHECK_STATUS has been set to Y.


The keyword is optional.

Available values: Integer

- *value*

Default: -1

→ [SYS_CHECK_STATUS](#), page 386

 related topics

.....
TRACE_OUTPUT specifies if a trace file is written to the %PLSDATA%\plotserv\spoolfiles\queuename\pipelined directory when output via GEKKO.

TRACE_OUTPUT

The keyword is optional.

Available values: Boolean

- N
The trace file will not be written.
- Y
The trace file will be written.

Default: N or value from the system section if set

..... *To be continued*

Output Device Section, Continuation

USE_SPOOLER

USE_SPOOLER specifies if SEAL Spooler is used. If SEAL Spooler is activated, the SPOOLER_URL keyword in the [SPOOLER] section has to be specified.


This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Boolean

- N
The SEAL Spooler process is not active.
- Y
The SEAL Spooler process is active.

Default: Y or value from the system section if set

 related topics

→ *SPOOLER_URL*, page 269

USERGROUP_ACTION_PRIO


USERGROUP_ACTION_PRIO specifies the priority rule if a user group belongs to both the unauthorized groups and the authorized groups.

The keyword is optional.

Available values: Enumeration

- FORBIDDEN
The ban is given priority.
- ALLOWED
The permission is given priority.

Default: FORBIDDEN

 related topics

→ *USERGROUP_FILE*, page 388

USERGROUP_FILE


USERGROUP_FILE specifies the configuration file that allows or disables specific user groups for the output device. The configuration file is located in the server\plotserv\plotter directory.

The keyword is optional.

Available values: String

- „“
Configuration file of the user groups

Default: „“

 related topics

→ *USERGROUP_ACTION_PRIO*, page 388

..... *To be continued*

Output Device Section, Continuation

.....
VERTEILER_ALIGNMENT specifies the position of the distribution information. This keyword is only evaluated if VERTEILER_TYPE has been set to ON_PLOT or FLAG-PAGE.

VERTEILER_ALIGNMENT

This keyword can be set for all output devices in the system section.


The keyword is optional.

Available values: Enumeration

- LEFT
left-aligned
- RIGHT
right-aligned
- CENTER
centered

Default: LEFT or value from the system section if set

→ VERTEILER_TYPE, page 392

 related topics

.....
VERTEILER_FLAG specifies the content of the distribution information. This keyword is only evaluated if VERTEILER_TYPE has been set to ON_PLOT or FLAG-PAGE.

VERTEILER_FLAG

This keyword can be set for all output devices in the system section.


The keyword is optional.

Available values: String

- “
content of the distribution information

Default: none

→ VERTEILER_TYPE, page 392

 related topics

..... *To be continued*

Output Device Section, Continuation

VERTEILER_FONT

.....
VERTEILER_FONT specifies the font type of the distribution information. This keyword is only evaluated if VERTEILER_TYPE has been set to ON_PLOT or FLAG-PAGE.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Integer

- *GKS_font_number*

Default: -901 or value from the system section if set



reference

→ [FONTS_USR]



related topics

→ VERTEILER_TYPE, page 392

VERTEILER_MEDIUM

.....
VERTEILER_MEDIUM specifies the paper type on which the distribution information is to be output. This keyword is only evaluated if VERTEILER_TYPE has been set to ON_PLOT.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration

- PA
Paper
- TR
Transparency
- FO
Film
- LI
Light-weight Paper
- SP1
Special medium 1
- SP2 ... SP12
Special medium 2-12
- DB
Cover sheet, e. g. colored
- BE
Any

Default: BE or value from the system section if set



related topics

→ VERTEILER_TYPE, page 392

..... *To be continued*

Output Device Section, Continuation

.....
VERTEILER_POSITION specifies the positioning of the distribution information in relation to the output job. This keyword is only evaluated if VERTEILER_TYPE has been set to ON_PLOT.

VERTEILER_POSITION

This keyword can be set for all output devices in the system section.


The keyword is optional.

Available values: Enumeration

- BOTH
Distribution information before and after the output job
- POST
Distribution information after the output job
- PRE
Distribution information before the output job

Default: PRE or value from the system section if set

→ VERTEILER_TYPE, page 392

 related topics

.....
VERTEILER_SIZE specifies the size of the additional sheet with the distribution information. The size is specified in GKSDatPlotter.vwt in server\plotserv\plotter. This keyword is only evaluated if VERTEILER_TYPE has been set to FLAGSHEET.

VERTEILER_SIZE

This keyword can be set for all output devices in the system section.


The keyword is optional.

Available values: Float in meter

- *value value*
Size of the separate sheet

Default: 0.01 0.01 or value from the system section if set

→ VERTEILER_TYPE, page 392

 related topics

.....
DISTRIBUTION_TEXTSIZE specifies the row height of the distribution information. This keyword is only evaluated if VERTEILER_TYPE has been set to ON_PLOT.

VERTEILER_TEXTSIZE


The keyword is optional.

Available values: Float in meter

- *value*
Row height of the distribution information

Default: 0.0 or value from the system section if set

→ VERTEILER_TYPE, page 392

 related topics

..... To be continued

Output Device Section, Continuation

VERTEILER_TYPE

VERTEILER_TYPE specifies where the distribution information is to be output.

This keyword can be set for all output devices in the system section.

The keyword is optional.

Available values: Enumeration

- NONE
No distribution information is output.
- FLAGPAGE
The distribution information replaces the flagpage.
- FLAGSHEET
The distribution information is output on a separate sheet.
- ON_PLOT
The distribution information is output on the output job in addition to the flagpage. The ON_PLOT type is replaced by FLAGSHEET if the document is to be folded. By applying the distribution information additionally, the document becomes larger, so that it can not be folded correctly.

Default: NONE or value from the system section if set



related topics

→ *VERTEILER_ALIGNMENT*, page 389

→ *VERTEILER_FLAG*, page 389

→ *VERTEILER_FONT*, page 390

→ *VERTEILER_MEDIUM*, page 390

→ *VERTEILER_POSITION*, page 391

→ *VERTEILER_TEXTSIZE*, page 391

→ *VERTEILER_TYPE*, page 392

14 Configuration Files - Raster Output - Reference

The files described in this chapter are evaluated if the Raster Engine of PLOSSYS netdome is used.

 **Caution** -
Raster Engine

This chapter deals with the following topics:

in this chapter

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|--------------------------------------|------|
| Format plotter_raster.db | 394 |
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| PCL Output | 398 |
| PostScript Format, Including Level2 | 399 |
| TIFF Format | 400 |
| Versatec Tiled Raster Format | 402 |
| Versatec Raster Format | 404 |
| CCITT Format | 405 |
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| FORMTEK Format | 407 |
| CALS Format | 408 |
| PDF | 409 |

Format `plotter_raster.db`

Format

.....
The file `plotter_raster.db` has the following format:

- Comment lines start with '#'.
- The lines have the following format:

`DriverID.Keyword: Value.`

Between the keyword and ':' must not be a blank.

A keyword may consist of several parts, e. g. `Part1.Part2.Part3.`

order

.....
The order of the specifications does not matter.
.....

This configuration file is used for converting raster data into raster data. With this file, both the intermediate format and the output format are created. Accordingly, the configuration file is divided into two main sections – one for the configuration of the intermediate format, and one for the configuration of the output format.

intermediate for-
mat for flagpage/
stamp

The intermediate format is always generated if a flagpage/lettering/stamp is put on raster drawings. The intermediate format is always generated as TIFF. The keywords which are important for the generation of the intermediate format are described in the *General Configuration*, page 396. For the generation of the intermediate format, only the general items and the TIFF-related items are relevant. Some items in the general section must not be used for the generation of an intermediate format. This is indicated in the correspondent place.

configuration

.....
The following chapters cover the configuration of the output format. The values represented in **bold** are defaults. They are selected if there is no item or a faulty item in the configuration file. Additionally, a warning is issued. Lines that do not start with a keyword, or are not written correctly, are ignored, and can be regarded as comment.
.....

To be continued

Format `plotter_raster.db`, Continuation

.....
For the output formats, the following driver identifications are available:

driver identifica-
tion

| | |
|------|--|
| RC | General entries which can be set for all output formats. |
| CCRF | Calcomp Compact Raster Format Output |
| PCL | PCL Output |
| PS | PostScript output including Level2 |
| TIF | TIFF output |
| VTIL | VersatecTiledRaster output |
| VRF | VersatecRaster format output |
| CCI | CCITT format output |
| RTL | HP-RTL format output |
| FTK | FORMTEK format output |
| CALS | CALS format output |
| PDF | PDF output |

.....

General Configuration

RC.MaxMemory-
Size

RC.MaxMemorySize:
4000

Integer

Size in KB which is allowed to be used for all raster images; if this value is exceeded, data are transferred to temporary files.

This INTEGER value should represent a reasonable memory size. A maximum of 4 MB is preset for the raster images. If there is enough storage space, a value of 20000 is recommended. The system administrator should be consulted, to determine the scope that is allowed by the limits set by the operating system.

Exception: When raster images are rotated by 90 or 270 degrees, not all data can be transferred to files. So in the worst case if the output job is very large, some MB can be allocated additionally for the rotation.

RC.MemBlock-
Size

RC.MemBlockSize:
1000

Integer

The size of a memory block allocated additionally at once, expressed in KB. It should not be larger than a quarter of the MaxMemorySize, but not smaller than one twentieth.

RC.AllocAll-
Memory

RC.AllocAllMemory:
no

Boolean

Memory blocks of the size specified in MemBlockSize are allocated additionally, as required. If only a part of a block is used, the block is divided and the rest is used further.

yes The maximum memory size allowed is allocated at once.

Procedure for allocating the maximum memory size specified in MaxMemorySize.



The value `no` is strongly recommended

Calcomp Compact Raster Format Output

| | |
|---|----------------------------|
| <p>.....</p> <p>CCRF.TransferLength: List</p> <p> 8 Length of a bitmap package for transmission</p> <p> 6 Only printable characters are used.</p> <p>.....</p> | <p>CCRF.TransferLength</p> |
| <p>CCRF.InputMode: List</p> <p> direct Controller transmits the data immediately.</p> <p> buffered The controller first buffers the data.</p> <p> Mode in which the output device accepts the data.</p> <p>.....</p> | <p>CCRF.InputMode</p> |
| <p>CCRF.FieldLength: List</p> <p> 8</p> <p> 16</p> <p> 32</p> <p> The length of a bitmap area that is to be processed jointly.</p> <p>.....</p> | <p>CCRF.FieldLength</p> |
| <p>CCRF.DotExpansion: List</p> <p> dot_off no dot expansion</p> <p> dot_on The output device is to perform a dot expansion, i. e. a scaling with factor 2 on the basis of the hardware.</p> <p>.....</p> | <p>CCRF.DotExpansion</p> |
| <p>CCRF.Speed: Integer</p> <p> 99 Speed at which the output device is to print out, expressed in 0.1 inch/sec; possible values: 1 .. 99.</p> <p>.....</p> | <p>CCRF.Speed</p> |
| <p>CCRF.OutputMode: List</p> <p> normal default mode</p> <p> quick quick mode: A fast print out, but of a poorer quality</p> <p> quality quality mode: A slow print out, but of a higher quality</p> <p> duplex duplex mode</p> <p> Output mode of the output device</p> <p>.....</p> | <p>CCRF.OutputMode</p> |
| <p>CCRF.Resolution: Integer</p> <p> 400 Resolution of the output device in dpi. The x resolution and the y resolution are the same.</p> <p>.....</p> | <p>CCRF.Resolution</p> |

PCL Output

| | | |
|-----------------|---|--|
| PCL.Resolution | PCL.Resolution: 300 | Integer Resolution of the output device in dpi. The x resolution and the y resolution are the same. |
| PCL.Compression | PCL.Compression: yes no | Boolean compression of the PCL code (PCL5) no compression of the PCL code (PCL4) |
| PCL.DinAFormat | PCL.DinAFormat: 4 | Integer DIN format of the paper (0, 1, 2, 3, 4, 5) |
| PCL.offset.x | PCL.offset.x: 0 mm | Float precision offset of the zero point of the output device in m, cm, mm or inch |
| PCL.offset.y | PCL.offset.y: 0 mm | Float precision offset of the zero point of the output device in m, cm, mm or inch |

PostScript Format, Including Level2

.....
 Data such as output job size, PostScript units, zero offset, etc. has to be specified for the respective output device.

setting

.....
 PS.XResolution: Integer PS.XResolution
300 X resolution of the output device in dpi.

.....
 PS.YResolution: Integer PS.YResolution
300 Y resolution of the output device in dpi.

.....
 PS.offset.x: Float PS.offset.x
7 mm precision offset of the zero point of the output device in m, cm, mm or inch

.....
 PS.offset.y: Float PS.offset.y
7 mm Y precision offset of the zero point of the output device in m, cm, mm or inch

TIFF Format

| | | |
|--------------------|--|--|
| TIF.XResolution | TIF.XResolution: 400 | Integer X resolution of the TIFF image in dpi |
| TIF.YResolution | TIF.YResolution: 400 | Integer Y resolution of the TIFF image in dpi |
| TIF.Compression | TIF.Compression: 1 2 3 4 TIFF compression type. | Integer uncompressed CCITT-G3 (1-dim), currently not implemented CCITT-G3 (2-dim) CCITT-G4 |
| TIF.ByteOrder | TIF.ByteOrder: 0 1 Default is the byte order of the machine. | Integer MOTOROLA byte order for writing the TIFF file INTEL byte order for writing the TIFF file |
| TIF.SoftwareOffset | TIF.SoftwareOffset: yes no The offset is defined by <code>offset</code> . Normally, this option is not required. If the value has been set to <code>no</code> , the offset is written into the TIFF tags <code>Xposition</code> and <code>Yposition</code> . Most TIFF devices, however, do not interpret these tags. | Boolean Filling an offset with blank lines and columns. |
| TIF.offset.x | TIF.offset.x: 0 mm | Float X offset of the zero point of the printing area in m, cm, mm or inch |
| TIF.offset.y | TIF.offset.y: 0 mm | Float Y offset of the zero point of the printing area in m, cm, mm or inch |

..... *To be continued*

TIFF Format, Continuation

| | | |
|--------------------------------------|--|-----------------------|
| | | |
| TIF.TileWidth: 512 | Integer Tile width for TiledTIFF code. The value has to be a multiple of 16. | TIF.TileWidth |
| | | |
| TIF.TileHeight: 512 | Integer Tile height for TiledTIFF code. The value has to be a multiple of 16. If one of the two items, TIF.TileWidth or TIF.TileHeight , has a value greater than 0, TiledTIFF is created instead of StrippedTIFF. | TIF.TileHeight |
| | | |

Versatec Tiled Raster Format

| | |
|---------------------|---|
| VTIL.XResolution | <p>VTIL.XResolution: Integer</p> <p>400 X resolution of the output device in dpi.</p> |
| VTIL.YResolution | <p>VTIL.YResolution: Integer</p> <p>400 Y resolution of the output device in dpi.</p> |
| VTIL.FormatFill | <p>VTIL.FormatFill: Boolean</p> <p>no no filling</p> <p>yes filling</p> <p>The output job is filled with blank lines and columns up to a certain format. This format is defined by <code>trans</code>. Normally, this option is not required; it may only be required if ServeWare is used, see also <code>VTIL.SoftwareOffset</code>.</p> |
| VTIL.trans.x | <p>VTIL.trans.x: Float</p> <p>0 mm X offset of the zero point of the printing area in m, cm, mm or inch, coarse offset.</p> <p>Is only effective if <code>VTIL.FormatFill</code> has been set to <code>yes</code>, see also <code>VTIL.SoftwareOffset</code>.</p> |
| VTIL.trans.y | <p>VTIL.trans.y: Float</p> <p>0 mm Y offset of the zero point of the printing area in m, cm, mm or inch, coarse offset.</p> <p>Is only effective if <code>VTIL.FormatFill</code> has been set to <code>yes</code>, see also <code>VTIL.SoftwareOffset</code>.</p> |
| VTIL.SoftwareOffset | <p>VTIL.SoftwareOffset: Boolean</p> <p>no no filling</p> <p>yes filling</p> <p>The offset is filled with blank lines and columns. The offset is defined by <code>offset</code>. Normally, this option is not required. The options <code>VTIL.FormatFill</code>, <code>VTIL.trans.x</code>, <code>VTIL.trans.y</code>, <code>VTIL.SoftwareOffset</code> are normally not required. However, if the XES output software "ServeWare" is used, the coordinate zero point is transferred to another corner of the output job by <code>VTIL.trans.x</code>, <code>VTIL.trans.y</code> etc. Then the zero point has to be transferred back by means of <code>VTIL.offset.x</code> and <code>VTIL.offset.y</code>.</p> |

..... *To be continued*

Versatec Tiled Raster Format, Continuation

| | | |
|---|---|-----------------|
| | | |
| VTIL.offset.x: 0 mm | Float X offset of the zero point of the printing area in m, cm, mm or inch, precision offset. | VTIL.offset.x |
| | | |
| VTIL.offset.y: 0 mm | Float X offset of the zero point of the printing area in m, cm, mm or inch, precision offset. | VTIL.offset.y |
| | | |
| VTIL.LongHeader: no yes Use of an alternative header which allows lengths greater than 4.09 meters with 400 dpi when using the XES output software "ServeWare". | Boolean No alternative header. Can be used if PLP and VPI are used. Alternative header when using ServeWare. | VTIL.LongHeader |
| | | |

Versatec Raster Format

| | | |
|--|---|--|
| VRF.XResolution | VRF.XResolution: 400 | Integer X resolution of the raster format in dpi |
| VRF.YResolution | VRF.YResolution: 400 | Integer Y resolution of the raster format in dpi |
| VRF.Compaction | VRF.Compaction: 0 1 2 3 | Integer uncompressed one-dimensional compression two-dimensional compression Optimum compression. Each line is compressed both one-dimensionally and two-dimensionally. Then the shorter compression type is used. |
| Compression type of the Versatec Raster Format. | | |
| VRF.Iscan | VRF.Iscan: 2152 1712 | Integer number of nibs per line (device parameter) for the Versatec 3444 number of nibs per line (device parameter) for the Versatec 8936-4E |
| VRF.Formfeed | VRF.Formfeed: no yes | Boolean No form feed is performed after the output job. Form feed is performed after the output job. |
| VRF.offset.top | VRF.offset.top: 0.0 m | Float offset before the output job on the roll in m, cm, mm or inch |
| VRF.offset.bottom | VRF.offset.bottom: 0.0 m | Float offset after the output job on the roll in m, cm, mm or inch |

CCITT Format

| | | |
|---|--|----------------------|
| CCI.XResolution: 300 | Integer X resolution of the CCITT image in dpi | CCI.XResolu- tion |
| CCI.YResolution: 300 | Integer Y resolution of the CCITT image in dpi | CCI.YResolu- tion |
| CCI.DinAFormat: 4 | Integer DIN format of the paper (0, 1, 2, 3, 4 or 5) | CCI.DinAFormat |
| CCI.offset.x: 0 mm | Float X offset of the zero point of the printing area in m, cm, mm or inch | CCI.offset.x |
| CCI.offset.y: 0 mm | Float Y offset of the zero point of the printing area in m, cm, mm or inch | CCI.offset.y |
| | | |

HP-RTL Format

| | | |
|--------------------|---|---|
| RTL.XResolution | RTL.XResolution: 300 | Integer X resolution of the HPRTL image in dpi |
| RTL.YResolution | RTL.YResolution: 300 | Integer Y resolution of the HPRTL image in dpi |
| RTL.SoftwareOffset | RTL.SoftwareOffset: no yes Filling of the offset with blank lines and columns. The offset is defined by offset. | Boolean no filling filling |
| RTL.offset.x | RTL.offset.x: 0 mm | Float X offset of the zero point of the printing area in m, cm, mm or inch |
| RTL.offset.y | RTL.offset.y: 0 mm | Float Y offset of the zero point of the printing area in m, cm, mm or inch |
| RTL.Compression | RTL.Compression: 0 1 2 3 4 5 Compression methods for the RTL code. | Integer uncompressed, line-oriented RunLength compression (currently not possible) PackBits compression SeedRow compression uncompressed, block-oriented BestFit: Shortest compression from the methods 0, 1, 2 and 3 |
| RTL.EnableCutter | RTL.EnableCutter: no yes The support of the paper cutter (cutter support) is controlled. Default: No item in the HPGL code, i. e. the output device setting is used. | Boolean EC1 item in the HPGL code, i. e. internal cutter is not activated. EC item in the HPGL code, i. e. internal cutter is activated. |

FORMTEK Format

| | | | |
|------------------|--|--|--------------|
| | | | |
| FTK.XResolution: | Integer | | FTK.XResolu- |
| 300 | X resolution of the FORMTEK image in dpi | | tion |
| | | | |
| FTK.YResolution: | Integer | | FTK.YResolu- |
| 300 | Y resolution of the FORMTEK image in dpi | | tion |
| | | | |

CALS Format

CALS.Resolu-
tion

.....
CALS.Resolution:
400

Integer
resolution of the CALS image in dpi
.....

PDF

| | | |
|--|--|-----------------------|
| PDF.XResolution: 300 | Integer X resolution of the PDF image in dpi | PDF.XResolu- tion |
| PDF.YResolution: 300 | Integer Y resolution of the PDF image in dpi | PDF.YResolu- tion |
| PDF.DecodeBinary: yes no | Boolean Raster data are stored in binary code. Raster data are stored in ASCII hex code. | PDF.DecodeBi- nary |

15 Configuration Files - Vector Output - Reference

 **Caution** -
Vector Engine

The files described in this chapter are evaluated if the Vector Engine of PLOSSYS netdome is used.

in this chapter

This chapter deals with the following topics:

| Topic | Page |
|--|------|
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Format `plotter.db`

.....
 The file `plotter.db` has the following format:

format

- Comment lines start with '#'.
- The lines have the following format:

DriverID.Keyword: Value.

Between the keyword and ':' must not be a blank.

A keyword may consist of several parts, e. g. *Part1.Part2.Part3.*

.....

The order of the definitions does not matter.

order

.....

This configuration file is used for the conversion of vector data into vector/
 raster data.

usage

The values represented in **bold** are defaults. They are selected if there is no item
 or a faulty item in the configuration file. In the case of an erroneous item, a
 warning is issued in addition.

.....

For each of the printer code formats

special raster for-
 mats

- HP-Laserjet pixel format,
- TIFF
- vtil
- HPPCL and
- EPSON/ESC/P2

there is

- a general section and a section for the color management with the driver ID
rb (for raster base) and
- a coding-dependent section `rb.Hplaser`, `rb.Tiff` etc.

In the following sections, these formats are referred to as special raster
 formats.

.....

Configuration of Line Widths

line width configuration

.....
With the help of the following keywords the line width that are finally drawn at the output device can be influenced. Normally, no modification is required here. Only with output devices that draw all lines too thin or too thick it makes sense to make settings to counter the device dependent action.

There are three ways to map the actual or desired line widths onto a (limited) number of line widths. The first is a kind of catch function which assigns a fixed value to a range of line widths (`PMP.Set`). Second, a value within a range can be multiplied by a certain factor (`PMP.Scale`). Third, one may specify a default line width factor (`PMP.Def_Pen_Factor`) that is used whenever there is a line width that is not within any rage. These three modes can be combined arbitrarily.

The settings are effective at the end, i. e. after a possible scaling of the output job.

units

.....
The line widths can be specified with the following units:

| Size | Unit |
|------|------------|
| m | meter |
| mm | millimeter |
| in | inch |
| cm | centimeter |
| dm | decimeter |
| yd | yard |
| ft | foot |

..... *To be continued*

Configuration of Line Widths, Continuation

| | | |
|--|---|--------------------|
| | | |
| PMP.Def_Pen_Factor: | Float | PMP.Def_Pen_Factor |
| 1.0 | standard scaling factor for all line widths | |
| | | |
| PMP.Scale: | Integer Float Float Float | PMP.Scale |
| 1 0.0 mm 0.3 mm 2 | scaling rule 1 | |
| ... | | |
| 4 0.8 mm 1.2 mm 3 | scaling rule 4 | |
| Line widths within one of these ranges - 2nd and 3rd value - are multiplied by a factor - 4th value -. The first value is the number of a scaling rule that defines the processing sequence. | | |
| | | |
| PMP.Set: | Integer Float Float Float | PMP.Set |
| 1 0.0 mm 0.3 mm 0.5 mm | mapping rule 1 | |
| ... | | |
| 3 0.8 mm 1.2 mm 0.8 mm | mapping rule 3 | |
| Line widths within the given range - 2nd and 3rd value - are set to a constant value - 4th value-. The first value is the number of a scaling rule that defines the processing sequence. | | |
| | | |

General Configuration

keywords

The following items describe the keywords which define the physical size and the dimensions of the raster field as well as other coding-dependent data. Further items may be added to this list if there is a need for new parameters which can be set from the outside for implementing additional types of color management.

The generation of an intermediate format, which is mentioned with some keywords, is used for the lettering/stamping of raster data.

| | | |
|---------------|-----------------------|---|
| rb.Resolution | rb.Resolution: 400 | Integer Resolution (dots per inch) with which the output device is operated. For this value, refer to the manual of the output device. |
|---------------|-----------------------|---|

| | | |
|--------------|---------------------------|--|
| rb.LineWidth | rb.LineWidth: 0.254 mm | Float Nominal line width of the driver. The value should be an integer multiple of the device resolution. For valid units of measurement see above. |
|--------------|---------------------------|--|

| | | |
|--------------|--------------------|--|
| rb.BitsPixel | rb.BitsPixel: 1 | Integer Number of bits per pixel. This value also defines the maximum number of possible device colors or gray tones. With black-and-white raster devices 1 should be used. |
|--------------|--------------------|--|

| | | |
|-----------|--------------------------------|--|
| rb.Rotate | rb.Rotate: 0 1 2 3 | List Rotation by 0 degrees Rotation by 90 degrees Rotation by 180 degrees Rotation by 270 degrees Rotation of the output area in mathematically positive direction. With this item, for example, a drawing can be output in portrait on a landscape area. |
|-----------|--------------------------------|--|



This value should only be set for stand-alone drivers. For drivers within PLOSSYS netdome, 0 should always be set here.

..... *To be continued*

General Configuration, Continuation

| | | |
|----------------------------|--|---------------------------|
| <code>rb.RasterMem:</code> | Integer | <code>rb.RasterMem</code> |
| <code>1048576</code> | Maximum size of the main memory to be requested for a raster image in bytes. | |

The size of the main memory requirements for a raster field in bytes is calculated from `rb.unit.x * rb.unit.y * rb.BitsPixel / 8`. In the case of very large images, the requirement of storage space may exceed the resources of the computer. In this case, the image is rasterized in segments which are put together to a complete image, when the output job is output. Thus, images with a high resolution or large output surface areas can be rasterized even if the main memory is limited.

| | | |
|----------------------------|---|---------------------------|
| <code>rb.BufferMem:</code> | Integer | <code>rb.BufferMem</code> |
| <code>1048576</code> | Size of the memory used for buffering output primitives. For reasons of performance, graphic primitives - vectors, areas ... - are not rasterized immediately, but are collected and rasterized only, when the buffer is full or the graphic is complete. | |

| | | |
|-----------------------------|--|----------------------------|
| <code>rb.Initstring:</code> | String, not with generation of an intermediate format | <code>rb.Initstring</code> |
| <code>\$\$</code> | initializing string: mandatory string sent to the output device before the other output. The string is limited by dollar signs. Control characters can be embedded with <code>^</code> , e. g. Escape is <code>^[</code> . | |

The keyword must not be used with the generation of an intermediate format!



hint

| | | |
|----------------------------|--|--|
| <code>rb.Endstring:</code> | String, not with generation of an intermediate format | |
| <code>\$\$</code> | End string: mandatory string sent to the output device after the other output. If there is no end string, the GKS error 6021 occurs. | |

The keyword must not be used with the generation of an intermediate format!



hint

Raster - Color Management

purpose
 The necessity of creating a separate module for the management of the color table results from the aim to implement only those functions in the general driver which are the same for all raster devices. However, it is not possible to foresee all requirements to be met by the color management for all devices that may be supported in future. Thus, the same solution has been chosen as with the generation of file or device codes, namely to put the color management into a separate module.

categories
 This module provides different categories of color management options, depending on the user-specific requirements and the capabilities of the respective output device. The interface to the outside is to be the same for all types of color management. Thus, this task is taken off the general driver. It can access the color management via the specified interfaces, and does not have to care about details such as the mapping of RGB colors onto device colors, the length of the color table, etc.

configuration file
 This chapter describes the items of the configuration file which parameterize the color management. Further items may be added to this list if there is a need for new parameters which can be set from the outside for implementing additional types of color management.

rb.ColorType
rb.ColorType: List
 0 Black-and-white device
 1 Color map of fixed length
 2 24-bit true color representation
 3 Color mapping on 256 gray tones
 4 Dynamic color management
 Type of color management. Further types are defined if required.
 For black-and-white raster creation, type 0 should be used. If gray scales or colors are to be used, e. g. for TIFF color output jobs, an appropriate number of bits per pixel must be specified. The color model 4, the dynamic color management, should only be used in conjunction with screen drivers.
 A gray scale value or color simulation is obtained if bits per pixel = 1 and color model 3 or 2 is selected.

rb.MapToBackground
rb.MapToBackground: Boolean
YES With the mapping of RGB values onto device colors, the colors are mapped onto the background color, i. e. parts of the image may be deleted again.
NO The colors are not mapped onto the background color.

..... *To be continued*

Raster - Color Management, Continuation

| | | |
|---|---|-------------------------------|
| <pre>rb.NumColors: 1024</pre> | <pre>Integer Length of the color table for GKS color definitions. This item does not limit the number of possible representable colors.</pre> | <pre>rb.NumColors</pre> |
| <pre>rb.ColorMapLength: 256</pre> | <pre>Integer Number of colors possible on the output device. This item is only interpreted if 1 has been selected for rb.ColorType.</pre> | <pre>rb.ColorMapLength</pre> |
| <pre>rb.GammaCorrection: 1.0</pre> | <pre>Float Value for the GAMMA correction. The GAMMA correction defines, how the colors set by the application program are mapped onto the available device colors or gray tones: Before a color is mapped onto the device color matching best, its RGB components are raised to the power of the GAMMA value. This is especially important for the mapping of colors onto gray scales.</pre> | <pre>rb.GammaCorrection</pre> |
| <pre>rb.Color: 0 1.0 1.0 1.0 1 1.1 1.0 1.0 2 1.0 0.0 0.0 ... Definition of the default device-specific colors. They are only interpreted if the color model 1 is used. The integer value represents the color index, and the float values represent the RGB components.</pre> | <pre>Integer Float Float Float</pre> | <pre>rb.Color</pre> |

Raster - Code-Dependent Parameter

HP-LaserJet

| | | |
|---------------------|----------------------|---|
| rb.Hplaser.Compress | rb.Hplaser.Compress: | Boolean |
| | YES | The compression methods for pixel data that are available with more recent HP LaserJets are used. |
| | NO | Compression methods are not used. |

Tiff

| | | |
|------------------------|-------------------------|-------------------------------------|
| rb.Tiff.ResolutionUnit | rb.Tiff.ResolutionUnit: | List |
| | 2 | unit of resolution in dots per inch |
| | 3 | unit of resolution in dots per cm |

| | | |
|---------------------|----------------------|------------------------------------|
| rb.Tiff.Compression | rb.Tiff.Compression: | List |
| | 1 | no compression |
| | 2 | CCITT modified Huffman Compression |
| | 4 | Fax CCITT Group 4 Compression |
| | 5 | LZW Compression |
| | 32773 | PackBits Compression |
| | Compression methods. | |

| | | |
|---------------------|-----------------------------|--|
| rb.Tiff.Photometric | rb.Tiff.Photometric: | List |
| | 0 | black/white - 0 = black |
| | 1 | black/white - 1 = white |
| | 2 | 24-bit color representation (is not supported yet) |
| | 3 | image with color table |
| | 4 | Transparency |
| | Photometric interpretation. | |

| | | |
|--------------------------|---------------------------|---|
| rb.Tiff.OutputRowPadding | rb.Tiff.OutputRowPadding: | List |
| | 1 | padding of the output line up to byte |
| | 2 | padding of the output line up to word boundary (2 bytes) |
| | 4 | padding of output line up to long word boundary (4 bytes) |

..... *To be continued*

Raster - Code-Dependent Parameter, Continuation

.....

| | | |
|-----------------------------------|---------|----------------------------------|
| <code>rb.Tiff.SingleStrip:</code> | Boolean | <code>rb.Tiff.SingleStrip</code> |
|-----------------------------------|---------|----------------------------------|

| | |
|------------|--|
| YES | output job output in a single TIFF strip |
| NO | output job output in several TIFF strips |

There are only a few TIFF interpreters which can process TIFF G4-Code in a single TIFF strip. If the output job output in a single TIFF strip has been set, the maximum length set for a TIFF strip is ignored for the output.

.....

| | | |
|--|---------|---|
| <code>rb.Tiff.MaxTiffStrigLength:</code> | Integer | <code>rb.Tiff.MaxTiffStrigLength</code> |
|--|---------|---|

| | |
|-------------|--|
| 8192 | The maximum size of an uncompressed TIFF strip which can be processed by a TIFF interpreter can be set here. 8K are suggested; the maximum value is 32768. |
|-------------|--|

.....

| | | |
|-------------------------------------|---------|------------------------------------|
| <code>rb.Tiff.BitsperSample:</code> | Integer | <code>rb.Tiff.BitsperSample</code> |
|-------------------------------------|---------|------------------------------------|

| | |
|--------------|-------------------------------|
| 1 | black/white, transparent mask |
| 8 | gray scale, color palette |
| 8 8 8 | RGB |

Number of bits per pixel.

.....


| | | |
|--------------------------------|---------|-------------------------------|
| <code>rb.Tiff.ByteSwap:</code> | Boolean | <code>rb.Tiff.ByteSwap</code> |
|--------------------------------|---------|-------------------------------|

| | |
|------------|-------------|
| NO | no swapping |
| YES | swapping |

Specifies whether the byte order is to be swapped.

.....

CalComp Format - Pen Plotter

| | | |
|---|---|--|
| KHCBS.BIAS | KHCBS.BIAS 32 Specifies the bias character. | Integer ASCII blank |
| KHCBS.CHECK | KHCBS.CHECK 0 1 | List no checksum generation checksum generation |
| KHCBS.EOM | KHCBS.EOM 3 | Integer end-of-message or end-of-block character |
| KHCBS.PENNO | KHCBS.PENNO 1024 | Integer maximum number of pens |
| KHCBS.RADIX | KHCBS.RADIX 95 Example: For 2032 dots per inch 8000 must be entered here (800 dots/cm = 2032 dots/inch, 1 inch = 2.54 cm). | Integer specifies the radix value |
| KHCBS.SEADR | KHCBS.SEADR 0 1 | List Search-address code is not inserted at the start and at the end of the block. Search-address code is inserted at the start and at the end of the block. |
|  hint | With some output devices, SEADR must be set to 1 so that there is a paper feed at the end of the drawing. | |
| KHCBS.STEPS | KHCBS.STEPS 8000 | Integer number of steps per cm multiplied by 10 |
| KHCBS.SYNCC | KHCBS.SYNCC 2 | Integer Sync character; only the 7 low-order bits are interpreted. If the 8th bit is set, two sync characters are generated. |

CalComp Format - Electrostatic Output Device

| | | |
|-----------------------|---|----------------------|
| HCBS.OVERWRITE_MODUS: | List | HCBS.OVERWRITE_MODUS |
| OVERLAY | See manual of the output device. | |
| ERASE | See manual of the output device. | |
| MERGE | See manual of the output device. | |
| TRANSPARENT | See manual of the output device. | |
| SEQUENTIAL_OVERLAY | See manual of the output device. | |
| DEFAULT | See manual of the output device. | |
| | The value with which the HCBS function SETLVL is called up. | |

| | | |
|------------------|-----------------------------------|-----------------|
| HCBS.RESOLUTION: | Integer | HCBS.RESOLUTION |
| 400 | device resolution (dots per inch) | |

Gerber Format

| | | |
|--------------|--|--|
| GE.size.x | GE.size.x: 3.657 m | Float physical width of the output area in m, cm, mm or inch |
| GE.size.y | GE.size.y: 1.524 m | Float physical height of the output area in m, cm, mm or inch |
| GE.unit.x | GE.unit.x: 3657000 | Integer Output device units, 1mm is 1000 |
| GE.unit.y | GE.unit.y: 1524000 | Integer Output device units, 1mm is 1000 |
| GE.rotate | GE.rotate: 0 1 2 3 The output area is rotated in mathematically positive direction. | Integer Rotation by 0 degrees Rotation by 90 degrees Rotation by 180 degrees Rotation by 270 degrees |
| GE.start | GE.start: \$*G1*G71*G90*\$ | String Initialization string for the output device. The string is limited by the dollar sign; control characters can be embedded with ^ , e. g. Escape is ^[. |
| GE.close | GE.close: \$D2*X0Y0*M2*\$ | String End string for the output device; is output after each output job. |
| GE.separator | GE.separator: \$*\$ | String String which is output after each output device command, e. g. *. |

To be continued

Gerber Format, Continuation

| | | |
|--|---|------------------|
| GE.optcoord: yes no | Boolean Optimization of the coordinate output: The x or y coordinate is only output to the output device if it has changed. Both coordinates are always output. | GE.optcoord |
| GE.newline: new | String Specifies if in the output file each output device command or each pair of coordinates is to be in a line. | GE.newline |
| GE.coordstart: \$\$ | String String which is output before each pair of coordinates. | GE.coordstart |
| GE.coordend: \$\$ | String String which is output after each pair of coordinates. | GE.coordend |
| GE.coordprefix.X: \$X\$ | String String which is output before or at the end of a single x coordinate. | GE.coordprefix.X |
| GE.coordprefix.Y: \$Y\$ | String String which is output before or at the end of a single y coordinate. | GE.coordprefix.Y |
| GE.move: \$D2\$ | String String for the move command | GE.move |
| GE.draw: \$D1\$ | String String for the draw command | GE.draw |
| GE.pen: 1 \$G54D10\$ 2 \$G54D11\$ 3 \$G54D12\$ 4 \$G54D13\$ The number of pens is defined in <i>plotter.pti</i> or <i>plotter.ptb</i> . | Integer activation for PenNo. 1 activation for PenNo. 2 activation for PenNo. 3 activation for PenNo. 4 | GE.pen |
| <i>To be continued</i> | | |

Gerber Format, Continuation

| | | |
|---------------|--------------------------------------|---|
| | | |
| GE.opt_level | GE.opt_level: | Integer |
| | 0 | no optimization |
| | 1 | pen optimization |
| | 2 | Pen optimization and path optimization; the next starting point of a continuous line is searched for. |
| | 3 | Pen optimization and path optimization; the next starting point or the next end point of a continuous line is searched for. |
| | Parameters for the pen optimization. | |
| | | |
| GE.opt_memory | GE.opt_memory: | Integer |
| | 1000000 | storage space for the optimization in bytes |
| | | |
| GE.opt_limit | GE.opt_limit: | Float |
| | 0.001 m | Lower limit for the path optimization. If the distance to the next starting point or end point is shorter than this limit, the search is stopped. |
| | | |

HPGL Format

| | | |
|---------------------------|---|----------|
| HP.open: | String | HP.open |
| "^[.(^[.I81;;17:^[.N;19:" | Initialization string for the output device | |
| HP.close: | String | HP.close |
| "^[.)" | End string for the output device | |

HPGL/2 Format

| | | |
|----------------------|--|--|
| H6.start | <pre>H6.start: \$^[%-12345X@P]L ENTER LANGUAGE HPGL2\$</pre> | <p>String</p> <p>Initialization string for the output device. The string is limited by the dollar sign; control characters can be embedded with ^ , e. g. Escape is ^[.</p> |
| H6.close | <pre>H6.close: \$^[%-12345X\$</pre> | <p>String</p> <p>End string for the output device</p> |
| H6.GammaCorr- val | <pre>H6.GammaCorrval: 1.0</pre> | <p>Float</p> <p>Value for the GAMMA correction. Defines, how the colors set by the application program are mapped onto the available device colors or gray scales. Before a color is mapped onto the device color matching best, its RGB components are raised to the power of the GAMMA value. This is especially important for the mapping of colors onto gray scales.</p> |

Interleaf Format

| | | |
|------------------------------|--|----------------------------|
| INTERLEAF.HeaderFile: | String | INTERLEAF.HeaderFile |
| INTERLEAF_INIT | Name of the INTERLEAF header file. This file is created depending on the application program.. | |
| INTERLEAF.EndFile: | String | INTERLEAF.EndFile |
| INTERLEAF_END | Name of the INTERLEAF end file. This file is created depending on the application program.. | |
| INTERLEAF.RealPrecision: | Integer | INTERLEAF.RealPrecision |
| 4 | Definition of the floating-point precision in places after the point | |
| INTERLEAF.Font: | -Fontnr Name [Text properties] | INTERLEAF.Font |
| -1001 Thames "" | Definition of INTERLEAF fonts. The font numbers are -1001, -1002 and so on. | |
| -1002 Thames s | Definition of INTERLEAF - Fonts -1002. | |
| | A maximum of 50 entries is supported. | |
| INTERLEAF.size.x: | Float | INTERLEAF.size.x |
| 0.19 | Specification of the x dimension of the paper, in m, cm, mm or inch | |
| INTERLEAF.size.y: | Float | INTERLEAF.size.y |
| 0.27 | Specification of the y dimension of the paper, in m, cm, mm or inch | |
| INTERLEAF.NominalLineWidth: | Float | INTERLEAF.NominalLineWidth |
| 0.320 mm | Nominal INTERLEAF line width, in m, cm or mm | |
| INTERLEAF.MinimalLineWidth: | Float | INTERLEAF.MinimalLineWidth |
| 0.080 mm | Minimum INTERLEAF line width, in m, cm or mm | |
| INTERLEAF.MaximalLineWidth: | Float | INTERLEAF.MaximalLineWidth |
| 2.0 mm | Maximum INTERLEAF line width, in m, cm or mm | |
| <i>To be continued</i> | | |

Interleaf Format, Continuation

INTERLEAF.ColorType

INTERLEAF.ColorType: Integer
1 Color management with a color table of fixed length

INTERLEAF.MapToBackground

INTERLEAF.MapToBackground: Boolean
yes Defines, whether the background color is to be mapped as well, when RGB values are mapped onto device colors.
no

INTERLEAF.NumColors: Integer
1024 Length of the color table for GRIBS-GKS color definitions. This item has nothing to do with the number of possible representable colors.

INTERLEAF.GammaCorrection

INTERLEAF.GammaCorrection: Float
1.0 The GAMMA correction defines, how the colors set by the application program are mapped onto the available device colors or gray scales: Before a color is mapped onto the device color matching best, its RGB components are raised to the power of the GAMMA value. This is especially important for the mapping of colors onto gray scales.

INTERLEAF.ColormapLength

INTERLEAF.ColormapLength: Integer
8 Length of the device color table

..... *To be continued*

Interleaf Format, Continuation

INTERLEAF.Color: Integer Float Float Float Integer

INTERLEAF.Col-
OR


Default color table. By means of these items, the device-specific default colors are specified. They are only interpreted if the color model 1 is used.

A line contains the following items in the following order:

- GKS color index
- red component
- green component
- blue component
- device-specific color numbers.

Example:

```
INTERLEAF.Color: 0 1.0000 1.0000 1.0000 0
INTERLEAF.Color: 1 0.0000 0.0000 0.0000 7
INTERLEAF.Color: 2 0.9687 0.9687 0.9687 1
INTERLEAF.Color: 3 0.9375 0.9375 0.9375 2
INTERLEAF.Color: 4 0.8750 0.8750 0.8750 3
INTERLEAF.Color: 5 0.7500 0.7500 0.7500 4
INTERLEAF.Color: 6 0.5000 0.5000 0.5000 5
INTERLEAF.Color: 7 0.2500 0.2500 0.2500 6
```

 example

PostScript Format

| | | |
|--------------------------------|---|--|
| PS.size.x | PS.size.x: 0.1905 m | Float Physical x dimension of the image in m, cm, mm or inch |
| PS.size.y | PS.size.y: 0.2794 m | Float Physical x dimension of the image in m, cm, mm or inch |
| PS.unit.x | PS.unit.x: 2250 | Integer Raster units in x position |
| PS.unit.y | PS.unit.y: 3300 | Integer Raster units in y position |
| PS.offset.x | PS.offset.x: 0.005 m | Float Precision x offset of the zero point of the printing area |
| PS.offset.y | PS.offset.y: 0.005 m | Float Precision x offset of the zero point of the printing area |
| PS.rotate | PS.rotate: 0 1 2 3 Rotation of the image output. | Integer Rotation by 0 degrees Rotation by 90 degrees Rotation by 180 degrees Rotation by 270 degrees |
| PS.colour- colour_available | PS.colour_available: YES NO | Boolean If output device is capable of producing colors |
| PS.colour | PS.colour: 0 1.0 1.0 1.0 1 0.0 0.0 0.0 Specifies default colors. Color index: 0 .. 16, RGB values: 0.0 .. 1.0. If no colors are available, gray scales are used. | Integer Float Float Float |

..... *To be continued*

PostScript Format, Continuation

```
PS.font:                               -Fontnumber Fontname
-1001 Courier
-1002 Courier bold
Definition of the PostScript text fonts. Possible font numbers: -1001, -
1002 .. -1040
```

Versatec VGS Format

VG.GammaCorr-
val

VG.GammaCorrval:
1.0

Float

The GAMMA correction defines, how the colors set by the application program are mapped onto the available device colors or gray scales: Before a color is mapped onto the device color matching best, its RGB components are raised to the power of the GAMMA value. This is especially important for the mapping of colors onto gray scales.

VG.ColourSpec-
Mode

VG.ColourSpecMode:
MAP

List

Color management: The RGB values are mapped onto a multiple of 1/15, so that a maximum of $16*16*16 = 4096$ different colors is created.

SET

The colors are set by means of the VGS routine DEFRGB as specified by the user. If 4096 colors have already been specified, the colors matching best are taken from the available colors.

CMYB

The colors are set by means of the VGS routine DEFECMY as specified by the user. If 4096 colors have already been specified, the colors matching best are taken from the available colors.

PATTERN

The colors are created with user-definable patterns by means of the VGS routine DEFCLR.

The Versatec printers support 4096 colors at a time. Additionally, there are several options for defining colors. With this item one can specify, how the colors are defined.

16 Changes

.....

This chapter describes the most important changes for each released module version: in this chapter

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|----------------------------|------|
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.....

Changes with Release 4.9.1

| | |
|------------------|---|
| Java mail client | <p>.....</p> <p>When an integer value had been specified on Linux with the configuration of the SMTP server port for the e-mail queue in <code>seal.mail.customer.pl</code>, the Java mail client crashed. The bug has been fixed (Version 1.11 <code>JavaMailClient.pm</code>).</p> <p>.....</p> |
| putpjl | <p>.....</p> <p>For the retry, <code>tools/plotter/pjl.pl</code> V1.7 calls <code>putpjl</code> with parameters specified correctly, that is with a blank after the value of <code>-n</code>.</p> <p>.....</p> |
| TLS 1.3 | <p>.....</p> <p>The <code>sap-oms</code>, <code>putipp</code>, <code>seal_lpd</code> and <code>send2pls</code> programs are built using CUPS 2.4.x/OpenSSL 3.0.9 and support TLS 1.3 this way.</p> <p>.....</p> |
| TLS 1.3 | <p>.....</p> <p><code>send2pls</code> 2.0.1 support TLS 1.3 with the IPPS transfer.</p> <p>.....</p> |

Changes with Release 4.9.0

| | |
|--|-----------------------------|
| | |
| During installation, directories are no longer created under %PLSROOT%/data, since the data directory can be specified arbitrarily in SEAL Setup. Scripts have to access the data directory via the %PLSDATA% environment variable instead of %PLSROOT%/data. | data directory |
| | |
| The "PLOSSYS netdome - Header" ("netdome_header_tec_xx.pdf") documentation has been expanded for PLOSSYS 5 and renamed to "PLOSSYS-Auftragsparameter" ("PLOSSYS Job Parameter") ("plossys_job_parameter_tec_xx.pdf") because PLOSSYS 5 does not work with headers. | job parameter documentation |
| | |
| The obsolete osversion.exe program is no longer contained in delivery. | osversion.exe |
| | |
| When generating PostScript, PostScript 3 instead of PostScript 2 is generated by default. If problems happen with old printers, the value of the GS_PARAMS parameter for the printer can be changed from pdf2ps to pdf2ps2. | PostScript 3 |
| | |
| The log messages generated by the conversion service (OMNG) and written into the database are displayed in PLOSSYS OCON correctly again. The log messages from the database are written into the job log file again. | log messages |
| | |
| The obsolete gates autocadgate, c907gate, dpf4convgate, hpglgate, inventor-gate, pdfgate, ps2gksmgate, ps2tiffgate, setgate and uggate are no longer delivered. | obsolete gates |
| | |
| When initializing PLOSSYS netdome using sysinit, now it is ensured that the default input directories stargate and maingate always exist and their monitoring by the conversion service is configured correctly. | initialization |
| | |
| The conversion of XML files on Linux supports Java 11 as well as Java 8. | Java 11 |
| | |
| If errors occur when passing jobs to the output devices via IPP, the connection to the correspondent device is cut completely in SEAL Spooler and the jobs are repeated automatically. | output error |
| | |
| The error message when calling the automatic deletion of jobs on a regular basis has been removed. Jobs that are still in the conversion service (OMNG) are also taken into account for deletion. | delete |
| | |
| <i>To be continued</i> | |

Changes with Release 4.9.0, Continuation

known bug -
switch

.....
As of Perl 5.32.1, the switch module is no longer available. If switch has been used in a Perl script, it has to be modified using `if`, `elsif` and `else`.
.....

Changes with Release 4.8.0

| | |
|--|-----------------|
| <p>.....</p> <p>Newer patch versions of the OpenJDK installation packages (OpenJDK8U-jdk_x-64_windows_hotspot_8u332b09.msi and newer, OpenJDK11U-jdk_x64_windows_hotspot_11.0.15_10.msi and newer) cause problems with the previous JBoss installations from SEAL Systems. In these cases, the Web user interfaces provided by JBoss no longer open properly. This bug has been fixed by the new version of the 100.jboss.start start script.</p> <p>.....</p> | OpenJDK |
| <p>.....</p> <p>Due to security reasons, the Java library Log4j has been updated to the version 2.17.</p> <p>.....</p> | security |
| <p>.....</p> <p>The handling of the UTF-8-encoded Unicode characters in file names has been improved in the output scripts of PLOSSYS netdome.</p> <p>.....</p> | Unicode |
| <p>.....</p> <p>The checking of the e-mail addresses with the e-mail output is more tolerant against errors.</p> <p>.....</p> | e-mail address |
| <p>.....</p> <p>The e-mail output script (version 1.89) allows sending an e-mail either with recipient ("PLS_RECEIVER") or as CC ("PLS_RECEIVER_CC") or only as BCC ("PLS_RECEIVER_BCC"). Specifying the receiver is no longer mandatory.</p> <p>.....</p> | e-mail receiver |
| <p>.....</p> <p>When opening a SEAL shell, the Java version used in the SEAL environment is displayed.</p> <p>.....</p> | Java version |
| <p>.....</p> <p>The value for "PLS_DELTYPE" has been changed from "AFTOUT" to "AFT24H" in the default header. The default deletion time for a successfully output job has been changed from 24 hours to one hour ("del24h.dat"). The check is executed every hour. Therefore, a job is kept for a maximum of two hours.</p> <p>.....</p> | deletion time |
| <p>.....</p> <p>The default when generating PDF/A has been changed from PDF/A level 1 to PDF/A level 2. First, the PDF/A output script generates Ghostscript PDF/A. Then, the PDF/A conformity is checked by the pdfadapt program. So far, the two configuration parameters, \$OptionsCopy{PdfaCreationLevel} and \$OptionsCopy{PdfadaptProfile}, existed in seal.pdfaout.customer.pl. The values of these parameters have to be equal in order that the output script generates a correct PDF/A document. Therefore, the \$OptionsCopy{PdfadaptProfile} parameter has been removed and the output script automatically sets the appropriate value for the parameter depending on \$OptionsCopy{PdfaCreationLevel}.</p> <p>.....</p> | PDF/A |
| <p>.....</p> <p style="text-align: right;"><i>To be continued</i></p> | |

Changes with Release 4.8.0, Continuation

| | |
|--------------------|--|
| view repro list | Since the viewrli.pl script displays repro lists in DPF Tracker, but it is not always installed, the viewrlishell.pl script is available to output the content of repro lists on the command line. |
| SAPGOF convert-er | As of PLOSSYS netdome 4.8.0, always sapgofu2pdf is used for processing OTF instead of sap2pdf. |
| security setting | When generating PDF files from a output job, the permission for content copying for accessibility (Braille) can be set with the security settings in the PDF file. |
| encrypted password | For sending e-mails, the password can be encrypted with sealcrypt and entered encrypted in the seal.mail.customer.pl configuration file (\$OptionsMail{Password}). The SEAL mail client supports the encryption. |
| maintenance mode | The maintenance mode is available for PLOSSYS netdome. This is switched on and off with "sysmainton" and "sysmaintoff" in the SEAL shell. In SEALCC, an operation icon is available for this. In the maintenance mode, the input channels of the systems are closed so that no new jobs can be sent to the system from outside. This way, the system can run empty, that means completing the existent jobs. Thus, the administrator can maintain the system without having to stop the complete system. The Frans/Frans3, IPP, SEAL LPD and JRFC Server input channels are taken into account. Job files that are placed directly in the gate directories will be processed even in maintenance mode. This allows the administrator to check if the maintenance work has been successful. Jobs that are passed to PLOSSYS netdome via SEAL Print Client, are currently also processed in maintenance mode. This input channel will be considered in a future version of the maintenance mode. |
| log file | Log messages of PDM Rlist concerning set members are passed to PLOSSYS netdome even if the log file was truncated by PDM Rlist due to the specified maximum size. |
| additional sheets | The templates for generating cover, trailer and missing sheets based on MS Word documents are no longer contained in delivery. Now, the generation is based on MS Excel documents only. |
| output error | If errors occur when passing jobs to the output devices via IPP, the connection to the correspondent device is cut completely in SEAL Spooler and the jobs are repeated automatically. |

..... *To be continued*

Changes with Release 4.8.0, Continuation

.....
PLOSSYS Infoserver uses the extended memory mode under Windows to be able to use more than 2 GB memory even as a 32 bit program. Additionally, the program regularly logs its own memory usage into infoserver.log. With this, a possible increase in the memory usage can be detected.
.....

memory

Changes with Release 4.7.0

| | |
|----------------|---|
| PostgreSQL | As of version 4.7.0, PLOSSYS netdome uses PostgreSQL version 12.4. |
| JBoss | As of version 4.7.0, PLOSSYS netdome uses JBoss version Wildfly 20.1.0. With the version 5.3.17 of Hibernate used in Wildfly 20, the export of many queues works again in easyPRIMA. |
| without Java | Java is no longer delivered with PLOSSYS netdome. |
| OpenJDK 11 | PLOSSYS netdome works with OpenJDK 11. |
| Perl | Perl 5.30 is supported. |
| manifest files | For all products from SEAL Systems, manifest files are delivered. |
| Cryptshare | As new output method, files can be uploaded to a Cryptshare server. For more information, refer to <i>Output via Cryptshare</i> , page 78. |
| housekeeping | When cleaning the statistics table in the database, the PRINT_TIME column is used as criterion instead of the PLS_PLOTDATE column due to PLS_PLOTDATE is not always contained in the statistics configuration. |
| server name | When generating the database tables for the conversion service, localhost is entered in all URIs instead of the real server name. |
| DSGVO | In order to be conform to the DSGVO, the value for PLS_DELTYPE has been changed from AFT24H to AFTOUT in the default header. The PLS_USERNAME, PLS_PLOTID and PLS_SRCNODE parameters have been removed from STATISTICS_FORMAT in plossys.cfg. |
| PLSDATA | In all scripts, %PLSDATA% is used instead of %PLSROOT%\data as path of the data directory. |
| pool device | For the output to a pool device, the POOL_STANDALONE_SPLITTINGOFF parameter is available. With this, single or collective missing sheets can be output to the main printer although no other documents are output to the main printer. SplittingSheet is entered into the header item PLS_META_TYPE of a missing sheet if a document has been redirected to another printer when outputting to a pool device. |
| | <i>To be continued</i> |

Changes with Release 4.7.0, Continuation

.....
 The server/plotserv/servertools/c1rplots.pl Perl script has been expanded by the -jobstatus option. With this, jobs having a specific status (active, error, executed, deleted) are deleted from the data directory data/plotserv. delete jobs with status

.....
 For c1rplots.pl (version 1.38 requires omng.pm as of version 1.169), new options are available: With -force, all job tables are cleared and all correspondent files are deleted. With -movedirs, the job directories in data/plotserv are renamed and empty directories are created. The backup directories have to be deleted manually. delete jobs

.....
 The graphic format C907 is supported by the gxc2pdf converter. C907

.....
 The files in the data directory, %PLSDATA%/dpf/, are no longer deleted by p1scron due to this caused errors. delete DPF data

.....
 The bug that graphics embedded in e-mails could not be opened has been fixed. embedded graphic

.....
 franss3.cfg has been enhanced for the multi-server mode of P2P. multi-server mode

.....
 The printer template has been adjusted so that documents in the letter format (ANSI_A) can be output to DIN A4 automatically. With this, the following rules apply: If PLOTTER_ISOANSI has been set to ANSI or ISO, PLOSSYS netdome behaves like before: In an ANSI environment, DIN A4 will be output to LEGAL or ANSI B. In an ISO environment, ANSI A will be output to DIS A3. If PLOTTER_ISOANSI has been set to BOTH, DIN A4 can be output to ANSI A if DIN A4 is not available at the printer and ANSI A can be output to DIN A4 if ANSI A is not available. PLOTTER_ISOANSI

.....
 Instead of the watermark stamps, transparent stamps are applied with TIFF files. For this, ltiff2pdf is called with the -transp parameter and pdf2pdf is no longer required. transparent stamp

.....
 send2pls as of version 1.99.0.0 evaluates dmColor from the PostScript file. If dmColor has been set to 1, color is disabled and PLS_GRAY is set to Y. If dmColor has been set to 2, color is enabled and PLS_GRAY is set to N. Unless dmColor has been set, the value of [JOB] color in the INF file determines the color. color with send2pls

..... *To be continued*

Changes with Release 4.7.0, Continuation

erroneous set
collation

.....
Erroneous set members for which no error sheets are generated cause that the entire set collation terminates with an error.
.....

password with
output

.....
For the secure output of a job, the PLS_SECUREPRINT header item is available which contains the password that the user has to specify at the printer for enabling the output of the job. PLS_SECUREPRINT is only taken into account unless the PLS_ENABLE_SECUREPRINT header item has been set to N.
.....

STPFILE deacti-
vated

.....
In the [system] section in plossys.cfg, the STPFILE parameter has been deactivated again, that means, it has been commented. This is only relevant when installing PLOSSYS netdome initially.
.....

missing ACK

.....
The version 1.2.1 of mt1pr ignores the missing ACK message from the printer when the transfer is complete and the printer has closed the connection.
.....

PLS_PAGES

.....
In the PLS_PAGES header item, semicolon and comma are supported with the range specification.
.....

Changes with Release 4.6.1

| | |
|---|----------------------------|
| A cron job has been implemented which deletes SPS jobs older than 30 days. | housekeeping |
| Infoclient messages not retrieved within four days are deleted. This prevents the database from slowing down due to a large amount of unrequired data. | delete Infoclient messages |
| With the DUPLEX_TIGHT_SET "Y" output device parameter, sets are output without blank back sides between the set members. | without blank back sides |
| From the new header item PLS_CROP, PLS_WINDOW is calculated. Afterwards, PLS_CROP will be deleted. | PLS_CROP |
| With the PLS_COLLATE header item, the sorting type can be configured with copies. With PLS_COLLATE = FALSE or N, three pages and three copies will be sorted as 1,1,1,2,2,2,3,3,3. By default or with PLS_COLLATE = TRUE or Y, the sorting will be 1,2,3,1,2,3,1,2,3. | Sorting |
| PLOSSYS netdomeOn Linux, PLOSSYS netdome 4.x can be started via the init process systemd during booting. | systemd |
| The PLOSSYS output drivers use Adobe PDF Library APDFL version 15.0.4PlusP2x and higher. | core driver |
| The -setenvmanager command simulates the setting of the setenv PLS_DEB_MAN_TRACE=1 environment variable during runtime. If the value has been set to 1, the manager logs its pool device evaluation into manager_trace.log. If the value has been set to 0, the manager does not write manager_trace.log. | ISCLI. manager |
| As of PLOSSYS netdome 4.6.1, the application server JBoss uses the programming language Groovy version 2.4.13 for the user exits. The working directory of the Wildfly application server, %PLSDATA%\jboss\standalone, is deleted completely whenever JBoss is initiated via sysinit and regenerated. | JBoss |
| With the tiff2pdf conversion, the pdf2pdf converter is only executed if this is activated explicitly in PLOSSYS netdome Settings in "Converter - tiff2pdf". By default, the pdf2pdf converter is deactivated. | conversion service |

..... *To be continued*

Changes with Release 4.6.1, Continuation

| | |
|--------------------|--|
| LibPlotter | <p>.....</p> <p>The PDFa queue requires CALLAS SDK for the pdfadapt program. As of PLOSSYS netdome 4.6.0, the queue evaluates the installation path with the Perl module <code>dpf4convert::callasdk</code>. Required is the Version 1.12 of <code>pdfatools.pm</code>.</p> <p>.....</p> |
| officegate | <p>.....</p> <p>The Perl gate <code>officegate</code> is no longer supported and replaced by the <code>office2pdf</code> converter in the conversion service.</p> <p>.....</p> |
| PLOSSYS Infoserver | <p>.....</p> <p><code>DEL_ACTIVE_PICKUP</code> is deactivated if <code>DEL_ACTIVE</code> has been set. The time specified in <code>DEL_ACTIVE</code> is also used for the pickup jobs.</p> <p>.....</p> |
| SEAL Spooler | <p>.....</p> <p>The restriction for the transfer thread is omitted. The SEAL Spooler starts a separate thread for each print data transfer to an output device. Therefore, with parallel transfer to different devices, the same number of transfer threads will be started. With this, the <code>MAXSCHEDULE</code> and <code>MAXPJLSCHEDULE</code> parameters in <code>plossys.cfg</code> are obsolete.</p> <p>.....</p> |
| tools | <p>.....</p> <p>The <code>p1schron.pl</code> script regularly starts <code>p1schron_action.pl</code> which executes shell commands. Due to problems when deleting files, an alternative has been implemented using a Perl function for the operation.</p> <p>.....</p> |

Changes with Release 4.6.0

.....
 As of version 4.6.0, PLOSSYS netdome uses Infoclient version 3.2.0.

Infoclient

.....
 As of version 4.6.0, PLOSSYS netdome uses Java Runtime version 1.8.0.

Java

.....
 As of version 4.6.0, PLOSSYS netdome uses PostgreSQL version 9.3.19.

PostgreSQL

.....
 As of version 4.6.0, PLOSSYS netdome uses Apache version 2.4.28.

Apache

.....
 As of version 4.6.0, PLOSSYS netdome uses JBoss version Wildfly 10.1.0.

JBoss

.....
 The PLOSSYS netdome output drivers use Adobe PDF Library APDFL version 15.0.1PlusP1m and higher.

PDF processing

The PLS_PDF_REPAIR environment variable specifies if the PDF files will be opened in the repair mode. If required, the environment variable is set in the PDF Tools or in a SEAL shell.

The PLS_PDF_DONT_OPTIMIZE_FONTS environment variable specifies if the fonts will be optimized when saving modified PDF files. If a font is used several times on different pages of a document, it is saved only once in the document and referenced otherwise. If the PLS_PDF_DONT_OPTIMIZE_FONTS environment variable has been set to Y, the optimization does not take place. If required, the environment variable is set in the PDF Tools or in a SEAL shell.

The PLS_PDF_LINEARIZED environment variable specified if the PDF file will be linearized and therefore will be displayed faster in the Web. If required, the environment variable is set in the PDF Tools or in a SEAL shell.

If the PDF_REMOVE_STRUCTTREE environment variable exists, the output driver removes StructTree from the PDF file. This way, PDF files with stamps are no longer enlarged by the multiple size of the original file. If required, the environment variable is set in the PDF Tools or in a SEAL shell.

..... *To be continued*

Changes with Release 4.6.0, Continuation

Infoserver

Jobs in the JOB_SPOOLING (WAITING FOR PRINTING) and JOB_BUSY (PROCESSING) states are deleted according to the configuration in the del24h.dat file. In the de124h.dat file, the DEL_SPOOLING and DEL_BUSY parameters are available.

If ODM can request replies concerning jobs from an output device, the unique spool file names are stored as ActiveSpoolfiles attribute in the job header. The SAP reply will be sent not before the final status message from the output device. After restarting PLOSSYS netdome due to a failure, the SAP reply was missing so far. This bug has been fixed so that the job reply will be processed correctly after restarting PLOSSYS netdome and passed to SAP.

SEAL Heartbeat

SEAL Heartbeat regularly sends a test job in PLOSSYS netdome and checks if this arrives in the output directory. As of PLOSSYS netdome 4.6.0, it is also checked if the test job has been corrupted in PLOSSYS netdome. In this case, an error sheet will be generated instead of the test document. If SEAL Heartbeat registers an error sheet, the operation configured for the error case will be executed. Normally, the Frans and kNet servers will be stopped so that jobs will no longer be accepted. Additionally, multiple SEAL Heartbeats can be started with different run-times and the evaluation of the statistics.log file can be deactivated. This way, the test job can be passed through PLOSSYS netdome even if nothing has been output for a long time.

IPP server

When shutting down, PLOSSYS netdome generates the lock file, data/sysstat/ipp.lock. Therefore, IPP requests are no longer accepted. The lock file will be removed when starting the system not before all system components are running. If an output queue which does not exist in PLOSSYS netdome has been specified when assigning the job via the IPP server, the IPP server refuses the job. If the PLS_IPP_IGNORE_QUEUE header item has been set to Y, PLOSSYS netdome accepts the job and set its status to ERROR.

Changes with Release 4.5.3

.....
 The booklet functionality is available, by means of which two pages can be output on one page. The page order and the margins are configured via keywords in `plossys.cfg`.

booklet printing

.....
 The `PLS_CROP_MARKS` header item is available. `PLS_CROP_MARKS` specifies if crop marks can be set. For this, the following keywords are relevant in `plossys.cfg`:
`CROP_MARKS_GENERATE`, `CROP_MARKS_COLOR`, `CROP_MARKS_MARGIN`,
`CROP_MARKS_LINEWIDTH`, `CROP_MARKS_LINELENGTH`

cutting marks

.....
 Analog to the initialization of Apache, the initialization of JBoss supports the SSL access inclusive generating test certificates.

JBoss

.....
 Instead of integers, floats are used for the media and crop box in order to achieve a higher accuracy in the result.

media/crop box

.....
 In `plossys.cfg`, the generic stamp configuration, `generic.stp`, is used by default. The generic stamp configuration contains example stamps for customer-specific stamps (`PLS_STAMP_0` to `PLS_STAMP_5`) and example stamps for the Windows printing (`PLS_STAMP_20` to `PLS_STAMP_22`). The setting is only active when installing PLOSSYS netdome 4.5.3 initially.

Stamp

.....
 The `PDF_GRAY_STAMP` keyword in the `[STAMP_DEFINITION]` section and `BO_PDF_GRAY_STAMP` keyword in the `[BOX]` section are supported.

.....
 The default of `PLS_SCALE_TYPE` has been changed from `/MAXSCL` to `/DINSCL`. The default of `PLS_FLAGPAGE` has been changed from `Y` to `N`. The changed defaults are only active when installing PLOSSYS netdome 4.5.3 initially. When updating a PLOSSYS netdome system, the previous defaults are kept.

PLS_SCALE_TYPE, PLS_FLAGPAGE

.....
 The `makesetgate` gate generates a set collation with set members from a single job und copies it to the configured directory.

makesetgate

..... *To be continued*

Changes with Release 4.5.3, Continuation

| | |
|------------------------------|--|
| ps2pdf converter | In the ps2pdf converter, the default for the CompatibilityLevel parameter has been changed to the empty string. The parameter can still be configured in the configuration interface, PLOSSYS netdome Settings. The changed default is only active when installing PLOSSYS netdome 4.5.3 initially. When updating a PLOSSYS netdome system, the previous default is kept. |
| user unit | The PDF_AUTO_SET_USERUNIT keyword specifies if the PDF user unit will be set by the output driver. The generated PDF files can be viewed with Acrobat Reader. PDF files without User Units are not displayed by Adobe Reader. |
| gxc2pdf converter | The gxc2pdf converter evaluates the PLS_PENTAB header item. |
| otf2pdf converter | The PLS_CONVERTER_CFG header item specifies a configuration file containing settings for the conversion via the otf2pdf converter. The header item can be set in the otf2pdf converter section in PLOSSYS netdome Settings. |
| DPF4Convert Web Service | In connection with the Office and CAD conversion, the communication between PLOSSYS netdome and DPF4Convert has been stabilized and switched to asynchronous. |
| IPP parameter | The following IPP parameters are supported for requesting job data via IPP: job-originating-user-name (corresponds to PLS_USERNAME), date-time-at-creation (corresponds to PLS_PLOTDATE), print-color-mode (corresponds to PLS_PLOTPEN), job-impressions (corresponds to PLS_PAGECOUNT) |
| delete jobs | With the DEL_ACTIVE and DEL_ACTIVE_PICKUP keywords in de124h.dat, it can be configured if the output jobs and the pickup output jobs in the WAITING status are deleted. |
| monitor job processing | The job processing can be monitored. In a PLOSSYS netdome system which has not accepted any jobs in a specified period, a so-called heartbeat job is generated. This heartbeat job is sent to PLOSSYS netdome using a configurable input channel, runs through the job processing and is output as PDF file in the SEAL_HEARTBEAT output queue. If the PDF output is missing, the input channel is closed and new jobs are no longer accepted. Using a failover mechanism, the job processing is redirected to another PLOSSYS netdome server. PLOSSYS Heartbeat can be activated via sysinit. |
| <i>To be continued</i> | |

Changes with Release 4.5.3, Continuation

| | |
|--|----------------------------|
| In PLOSSYS netdome Settings, the default port for DPF Web Service has been changed to 9125. | port for DPF Web Service |
| The PLS_ORIG_EXT header item is available. PLS_ORIG_EXT contains the file extension of the original file. | extension of original file |
| The send2pls program supports the transfer via IPP and HTTPS. | send2pls |
| In the definition of the format string for the entries in the <code>statistics.log</code> file, the <code>\$PLO_PAGE_COUNT</code> parameter can be used. Thus, in each case the output pages per single job or set member are entered, at which set duplicates are included as well. | statistics.log |
| When assigning a print job via the <code>mtlpr</code> program, establishing the connection to the client is tried using the 721 to 731 ports, that means using a port according to the LPR protocol. Not before a connection cannot be establish this way, a port is used not according to the LPR protocol. | mtlpr |
| The management server can be run in a Windows Active/Passive cluster. | cluster |
| In <code>plossys.cfg</code> , the <code>MANUAL_TRAY_AS_IS</code> keyword is available. If the keyword is set to Y and the manual tray (<code>PLS_TRAY_n=INTRAYMANUAL</code>) is to be used, the internal paper and tray selection is deactivated. | tray selection |
| The <code>SCALE_TO_TRAY</code> keyword in the output device section of <code>plossys.cfg</code> specifies that PLOSSYS netdome scales the output job to the output format of the loaded tray media if tray selection (<code>PLS_TRAY_x=INTRAYn</code>) is set. Default is Y. | |
| With the ZPL output method and output jobs containing multiple labels, SEAL Spooler sends each label separately to the output device. For this, <code>SINGLE_PAGE_MONITORING</code> has to be set to Y. | SEAL Spooler |
| The error text on the error sheet has been limited to 1000 characters. | error sheet |
| The default of the <code>DB_HOST_AS_IP</code> keyword has been changed to N. | DB_HOST_AS_IP |
| | <i>To be continued</i> |

Changes with Release 4.5.3, Continuation

obsolete key-
words

.....
The following keywords are obsolete:

START_MAINGATE, GATE_DEFAULT_TIMEOUT, V150_PLOTTER, MAIL_ADDRESS_TABLE,
ICON_ASK_CON_TYPE, ICON_INITIAL_CON_TYPE, PRINTER_GROUP
.....

Changes with Release 4.5.2

.....
 The gxc2pdf converter replaces the HPGL and the HPGLX gate. conversion ser-
 vice

.....
 For the form management system Cartago®Live from the Cartago Software company, an interface is available as extension. Cartago®Live

.....
 PDF input files with PDF rotation of 90, 180, or 270 degrees are split correctly. Image areas defined via PLS_WINDOW, PLS_WINDOW_page or PDF CropBox provide the requested image area. PDF

PLOSSYS netdome 4.5.2 uses PDF Tools 3.4.0. The pdfmeta program has been replaced by the pdfxmeta program. For compatibility reason, both program calls are still supported.

.....
 PLOSSYS netdome processes oversized PostScript files (5 meters and more). PostScript

.....
 The programs oms_server and oms_submit have been modified in such a way that the job transfer to PLOSSYS netdome can be executed via IPP alternatively. SAP

The parameters which are additionally available with the SAP processing are extracted via the adspreproc tool and are available as header items. The adspreproc tool is configured in the otf2pdf converter section in PLOSSYS netdome Settings.

PLOSSYS netdome supports the processing of OTF files that were saved in the SAPGOFU format.

.....
 The DUPLEX_IGNORE_LAST_EMPTY_REVERSE queue parameter specifies if needless white pages generated by SEAL PS Driver with other SEAL applications (Windows Integration, SEAL Master Driver) are removed. SEAL PS Driver

.....
 The sysinit program replaces the setplossyscfg.pl program. replacing set-
 plossyscfg.pl

.....
 For change scripts independent of the converters, an interface is available. This orientates itself on the interface for change header scripts. The interface processes both Perl and Groovy scripts. interface for con-
 verter scripts

Changes with Release 4.5.1

| | |
|-------------------|---|
| output type | <p>.....</p> <p>As of PLOSSYS netdome version 4.5.1, the USER_DEFINED output type is supported, The output type defines user-specific output scripts.</p> <p>.....</p> |
| printer group | <p>.....</p> <p>One or multiple printer groups can be assigned to one output device. The mapping is done via PLOSSYS OCON. The PRINTER_GROUP keyword in plossys.cfg is obsolete.</p> <p>.....</p> |
| additional sheets | <p>.....</p> <p>The PLS_FORM_STYLE header item with default_\${ENV.PLS_LANG} as default has been included into the default header of the conversion service. Thus, all additional sheets are created depending on the specified language in English or German.</p> <p>.....</p> |
| target system | <p>.....</p> <p>The AVAILABLE_REMOTE_SYSTEMS keyword in the output device section of plossys.cfg contains a list of all possible target systems to which PLOSSYS netdome may transfer the output jobs.</p> <p>.....</p> |
| JBoss | <p>.....</p> <p>As of version 4.5., PLOSSYS netdome uses JBoss 7.1.1.</p> <p>.....</p> |
| deletion time | <p>.....</p> <p>For each job status, a deletion time can be specified in the de124.dat file.</p> <p>.....</p> |

Changes with Release 4.4.2

.....
 Ghostscript version 9.04 is used.

Ghostscript

.....
 For converting Solid Edge files, the dft2pdf converter is available. A DPF connection is necessary.

Solid Edge converter

.....
 The following header items are no longer supported:

Header

- PLS_COLOR2BW
- PLS_PLOTOPT
- PLS_PSCONVERTER
- PLS_SCRIPT_DEBUG
- PLS_SINGLE_PEN
- PLS_SUBADR
- PLS_SPLITELE
- PLS_TIFF_ROTATE
- PLS_TIFF_WINDOW

.....
 The following changes apply to the output drivers:

output driver

- The newest output drivers of the printer database are used.
- The PDF output drivers work in the in the HFT mode. The mode allows to process PDF files with small syntax errors. Adobe PDF Library APDFL9.1.0P4z is required. HFT mode is activated by default.

.....
 The Cartago Live interface has been renamed to Secure&Pickup Printing.

Secure&Pickup -
 Printing/Cartago-
 Live

As soon as a job arrives in PLOSSYS netdome, the current status of the output device is evaluated. If the output device is not ready, the job is redirected according to the failover rules. In this context, the following system parameters are relevant:

reliability
 (failover)

- FAILOVER_QUEUE
- FAILOVER_TIMEOUT

..... *To be continued*

Changes with Release 4.4.2, Continuation

Frans3

As of Frans3 version 3.1.3.9, the following changes are valid:

- The creation of the job-specific log file can be configured via the `FRANS3_WRITE_JOB_LOG` keyword in `plossys.cfg`.
- The Frans3 configuration file, `franss3.cfg`, is specified in the `[KNET]` section in `plossys.cfg`. Here, security functions, which are specified with rules via a white list, can be switched on or off.



Changes with Release 4.4.1

-
- logical device group output device
Using the PrinterGroup keyword, several output devices can be combined to a logical device group.
 - display in clients
The PRINTER_VISIBLE keyword in plossys.cfg specifies if the output devices are visible in the clients.

-
- security vulnerabilities eliminated security
In version 4.4.1, some important security leaks have been closed. These concern the access to server directories by means of the included Apache Web Server and Apache Tomcat Servlet Container, attacks on the different Web applications of the system by means of Command Injection and Cross Site Scripting, and the encrypted storing of passwords.

The following interfaces are provided:

interface

- Interface to a converter of the Compant company
Using this interface the AFP, XPS and PCL input formats may be passed to PLOSSYS netdome.
- Interface to Cartago Live
This interface is used in order to create a PLOSSYS netdome set with several set members from an order file containing several data sets (for instance time tickets).
 hint - only available on request:
The interface is only available on request.
- Interface between Digital Process Factory and PLOSSYS netdome
Via this interface, the processing of any DPF format via PLOSSYS netdome is possible. Currently, the processing of AutoCAD files is available.
 Caution - license:
A license for Digital Process Factory is not included in the standard of PLOSSYS netdome.

To be continued

Changes with Release 4.4.1, Continuation

| | |
|-------------------|--|
| IPP configuration | In the server\jboss\conf\tcpip.cfg configuration file, you can specify if JBoss uses IP V4 or IP V6. Default is V4. |
| file storage | Distributed directories can no longer be configured. The M00_SECTIONS item in the system section of plossys.cfg has been removed. |
| PDF processing | PDF_NEW_MERGE=Y is used as default for the PDF processing. |
| PDF/A | When creating PDF/A files by means of seal.pdfaout.pl, new software components (Callas SDK) are used which require a license key. This license key may be requested at SEAL Systems and then entered in the seal.pdfaout.customer.pl file using the CONVLIC_PDFLOGLIFE variable. |

Changes with Release 4.4.0

-
- The conversion service replaces the gate method. conversion ser-
vice
-
- The JPS adapter for supporting Java applications is used. JBoss
-
- An IPP server for receiving output jobs via the IPP standard is available. IPP server
-
- An LPD server for assigning output jobs via the LPD standard is available. LPD server
-

Changes with Release 4.3.0

| | |
|-----------------|--|
| output type | <p>As of PLOSSYS netdome 4.3.0, the output type SPLITMAIL is no longer supported.</p> <p>The functionality is resumed by the output type MAIL.</p> |
| gates | <p>parallelization of the Gates:</p> <p>With the parallelization of the Gates, a performance enhancements in the job processing with a high job volume may be achieved.</p> |
| Unicode | <p>Unicode is supported.</p> <p>PLOSSYS netdome supports the processing of output jobs that include Unicode characters. The display of these jobs is supported with PLOSSYS OCON and Infoclient.</p> |
| PLOSSYS OCON | <p>New features in PLOSSYS OCON version 1.3:</p> <ul style="list-style-type: none"> • Modifying all device parameters • Collecting typical test files • Configuring a pool device • Creating statistics • Displaying Unicode characters • Creating and storing customer-specific templates from PLOSSYS OCON |
| Infoclient | <p>New features in PLOSSYS Infoclient version 2.0:</p> <ul style="list-style-type: none"> • Displaying set collations in tree structure • Displaying Unicode characters • Configuring settings on the server side; no configuration in <code>plossys.ini</code> |
| Infoserver | <p>New status [U] unknown.</p> <p>If the status of a device can not be determined, the <code>plsstatus</code> command displays [U] for unknown.</p> |
| Microsoft files | <p>The office gate processes Microsoft files with the ending <code>*.mpp</code>.</p> |
| database | <p>The PostgreSQL database can be used.</p> <p>With big PLOSSYS netdome installations, the performance can be increased by using the PostgreSQL database. The database is supported as of PLOSSYS netdome 4.2.0.</p> |

..... *To be continued*

Changes with Release 4.3.0, Continuation

.....

The AIX operating system is supported as of version 5.1.

All operating systems of Silicon Graphics are supported until the end of the year 2008.

.....

operating sys-
tems

Appendix A Additional Variables

| | |
|-----------------------------|--|
| purpose | PLOSSYS netdome supports additional variables. These variables are used to apply information to the flagpage. |
| PLO_BYTES | PLO_BYTES specifies the size of the total output metafile in bytes. |
| PLO_COPY | PLO_COPY specifies the number of copies output. |
| PLO_CURR_ - JOB_NOB_PAGE | PLO_CURR_JOB_NOB_PAGE specifies the current page number of a set collation over all set members without technically forced empty pages (non blank pages) |
| PLO_CURR_ - JOB_PAGE | PLO_CURR_JOB_PAGE specifies the current page number of a set collation including all set members. |
| PLO_CUR- R_NOB_PAGE | PLO_CURR_NOB_PAGE specifies the current page number of a single job or a set member without technically forced empty pages (non blank pages) |
| PLO_CURR_PAGE | PLO_CURR_PAGE specifies the current page number of a single job or a set member. |
| PLO_DATE | PLO_DATE specifies the date of the output job output. |
| PLO_DINFORMAT | PLO_DINFORMAT specifies the DIN format of the paper size used. |
| PLO_END | PLO_END specifies the end time of the output. This variable is only available for the statistics file but not for the flagpage. As the output has not been completed, when the flagpage is printed, no definite time can be output here. |
| PLO_ITEMS | PLO_ITEMS specifies the number of items output. |


..... *To be continued*

Additional Variables, Continuation

.....
PLO_MEDIA_COUNT_n specifies the number of printed pages of an output job per used paper size. This variable is created for any valid paper size and serially numbered beginning with 0. The valid paper sizes are taken from the configuration file of the device device.cfg. For each variable PLO_MEDIA_COUNT_n the related paper size will be provided as PLO_MEDIA_NAME_n variable.

PLO_MEDIA_COUNT_n

→ PLO_MEDIA_NAME_n, page 461

 related topics

.....
PLO_MEDIA_NAME_n specifies the name of the paper size, for which the printed pages of an output job are to be counted and provided as variable.

PLO_MEDIA_NAME_n

→ PLO_MEDIA_COUNT_n, page 461

.....
PLO_PAGE_BYTES specifies the size in bytes of the page of the metafile that is currently output. In case of single page files this value is identical to PLO_BYTES.

PLO_PAGE_BYTES

→ PLO_BYTES, page 460

.....
PLO_PLOTPAPER specifies the name of the used output medium.

PLO_PLOTPAPER

.....
PLO_PLOTTER specifies the name of PLOSSYS netdome output device, which may differ from the original item PLS_PLOTTER in case of an active diversion or on output on a pool device.

PLO_PLOTTER

.....
PLO_PLSNR specifies the internal PLOSSYS netdome number of the job.

PLO_PLSNR

.....
PLO_SCALE specifies the final scaling factor.

PLO_SCALE

.....
PLO_SETCURR specifies the number of the current member within a set.

PLO_SETCURR

.....
PLO_SETMAX specifies the total number of members of the set.

PLO_SETMAX

.....
PLO_SIZEX specifies the paper size actually used in X position (logical model).

PLO_SIZEX

.....
PLO_SIZEY specifies the paper size actually used in Y position (logical model).

PLO_SIZEY

..... *To be continued*

Additional Variables, Continuation

| | |
|------------------------------|--|
| PLO_START | PLO_START specifies the starting time of the output. |
| PLO_TOTAL_- JOB_NOB_PAGES | PLO_TOTAL_JOB_NOB_PAGES specifies the total number of pages of a set collation without technically forced empty pages (non blank pages). |
| PLO_TOTAL_- JOB_PAGES | PLO_TOTAL_JOB_PAGES specifies the total number of pages of a set collation including all set members. |
| PLO_TOTAL_- NOB_PAGES | PLO_TOTAL_NOB_PAGES specifies the total number of pages of a single job or a set collation without technically forced empty pages (non blank pages). |
| PLO_TOTAL_PAGES | PLO_TOTAL_PAGES specifies the total number of pages of a single job or a set member. |
| PLO_VECTORS | PLO_VECTORS specifies the number of the output vectors. |

Appendix B Supported Output Types

PLOSSYS netdome supports the following output types:

output types

- COPY
 - COPYUTF8
 - DIRECT
 - E-MAIL
 - FASTPORT
 - FRANS
 - FTP
 - GLPR
 - HPNP
 - IPP
 - LP
 - LPR
 - MTFILTER
 - MTLPR
 - NONE
 - PJJ
 - REMOTE
 - ROWE
 - ROWERCS
 - SELF
 - SPLITMAIL
 - TEXTMAIL
 - USER_DEFINED
 - VIEW
 - WEBPORTAL
 - XPP
 - ZPL
-

Appendix C Supported Character Encodings

The following character encodings are supported as input formats:

| Character Encoding | Character Encoding | Character Encoding | Character Encoding |
|--------------------|--------------------|--------------------|-----------------------|
| 7bit-jis | cp857 | ISO-10646-1 | MacCentralEur-Roman |
| AdobeSymbol | cp860 | ISO-2022-jp-3 | MacCroatian |
| AdobeZdingbat | cp861 | ISO-2022-jp | MacDingbats |
| ascii-ctrl | cp862 | ISO-2022-jp-1 | MacRomanian |
| big5-eten | cp863 | ISO-2022-kr | MacRumanian |
| big5ext | cp864 | ISO-646-US | MacSami |
| big5-hkscs | cp865 | ISO-8859-1 | MIME-B |
| big5plus | cp866 | ISO-8859-10 | MIME-Header |
| cccii | cp869 | ISO-8859-11 | MIME-Q |
| cp1006 | cp874 | ISO-8859-13 | N.America (ASCII) |
| cp1026 | cp875 | ISO-8859-14 | null Special Encoding |
| cp1047 | cp878 | ISO-8859-15 | posix-bc |
| cp1250 | cp932 | ISO-8859-16 | shiftjisx0123 |
| cp1251 | cp936 | ISO-8859-2 | symbol |
| cp1252 | cp949 | ISO-8859-3 | UCS-2BE |
| cp1253 | Cyrillics | ISO-8859-4 | UCS-2LE |
| cp1254 | dingbats | ISO-8859-5 | US-ascii |
| cp1255 | euc-cn | ISO-8859-6 | UTF-16 |
| cp1256 | euc-jisx0213 | ISO-8859-7 | UTF-16BE |
| cp1257 | euc-jp | ISO-8859-8 | UTF-16LE |
| cp1258 | euc-kr | ISO-8859-9 | UTF-32 |
| cp437 | euc-tw | ISO-ir-165 | UTF-32BE |
| cp500 | gb12345-raw | jis0201-raw | UTF-32LE |
| cp737 | gb18030 | jis0208-raw | UTF-7 |
| cp775 | gb2312-raw | jis0212-raw | UTF-8 |

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| | |
|------------------------|---|
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| [FONTS_USR] | <i>SEALFONTS - Character Set Package</i> , User Manual, SEAL Systems |
| [INFOCLT_TEC] | <i>PLOSSYS Infoclient</i> , System Description, SEAL Systems |
| [NETDOME_ADM] | <i>PLOSSYS netdome</i> , Quick Starter Guide, SEAL Systems |
| [NETDOME_ADDSH_TEC] | <i>PLOSSYS netdome - Additional Sheets</i> , System Description, SEAL Systems |
| [NETDOME_DETAIL_TEC] | <i>PLOSSYS netdome</i> , Introduction, SEAL Systems |
| [NETDOME_INCID_TEC] | <i>PLOSSYS netdome Incident Management</i> , System Description, SEAL Systems |
| [NETDOME_SETTINGS_TEC] | <i>PLOSSYS netdome Settings</i> , System Description, SEAL Systems |
| [OCON_ADM] | <i>PLOSSYS OCON</i> , Quick Starter Guide, SEAL Systems |
| [OCON_INS] | <i>PLOSSYS OCON</i> , Installation Guide, SEAL Systems |
| [ODM_TEC] | <i>Output Device Monitor</i> , System Description, SEAL Systems |
| [PLOSSYS_PARAM_TEC] | <i>PLOSSYS Job Parameter</i> , System Description, SEAL Systems |
| [STAMP_USR] | <i>Stamping (PLOSSYS netdome, pdfstamp)</i> , User Manual, SEAL Systems |
| [SYSTEMSTATUS_TEC] | <i>System Status</i> , System Description, SEAL Systems |
| [WEBPORTAL_TEC] | <i>PLOSSYS Webportal</i> , System Description, SEAL Systems |

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.

| | |
|----------------------------|---|
| Job | A document which is to be output by PLOSSYS netdome; a job is accepted, if the following files are copied to the respective →gate directory: <ol style="list-style-type: none"> 1. →Graphic file with correct file extension (example: example.hpgl) 2. Possibly the →header (example: example.hed) 3. Possible additional files such as color and pen tables 4. And finally the →trigger file (example: example.rdy) |
| Job parameter | Setting for processing and outputting a →job A job parameter is also called a →header item. |
| Set collation | Combined set of →output jobs |
| Output job | →Job |
| Output device | Device on which the document is output |
| Output parameter | →Job parameter |
| Output driver | Program for controlling an →output device |
| Inscription | →Flagpage |
| Cover sheet | First sheet of a →set collation; it contains information about the job and the documents included in the job. The cover sheet is also called →additional sheet. |
| Default header | →Header containing defaults for the →header items |
| Printer configuration file | Configuration file for →multi-drawers as addition to the configuration in the PLOSSYS netdome configuration file plossys.cfg |
| Single job | →Job with one document |
| Single job header | →Header belonging to a →single job |
| Trailer sheet | Last sheet of a →set collation; it contains information about the job and the documents included in the job. The trailer sheet is also called →additional sheet. |
| Missing sheet | Sheet that is output instead of the original document within a →set collation when the document did not arrive in the system after a timeout. The missing sheet is also called →additional sheet. |
| Error sheet | Sheet that is output instead of the original sheet when an error occurred while creating the document. The error sheet is also called →additional sheet. |
| Flagpage | Lettering line in the margin of the document |
| Format converter | Program for converting a document from one graphic format into another |

..... *To be continued*

Terminology, Continuation

| | |
|---------------------------|---|
| Gate | Job input for PLOSSYS netdome; there is a separate gate or converter for each graphic format supported by PLOSSYS netdome. It consists of <ol style="list-style-type: none"> 1. The →gate directory, 2. The →gate process and 3. The →gate converter. Special gates: →Maingate |
| Gate converter | →Format converter called by the →gate process |
| Gate process | Process which converts the image files into another graphic format, and then passes them on to be output |
| Gate directory | File directory into which incoming →jobs are copied |
| Graphic file | File that contains the graphic information of the document |
| Header | File in ASCII format that contains items for configuring a →job |
| Header item | Entry in the →job header which consists of a keyword and a value |
| Information line | Up to 10 lettering texts on the document in addition to the →flagpage |
| Console | User interface of PLOSSYS netdome in order to administrate jobs and output devices; →PLOSSYS OCON |
| Maingate | All jobs preprocessed by the other →gates are copied to the maingate directory and processing is continued there. |
| Metafile | File in the →metaformat |
| Metaformat | Standardized graphic format (for example, GKSM, CGM, TIFF/G4) |
| Multi-drawer | Output device with several media tray or rolls; the device is configured by a section in the →system configuration file and by a →printer configuration file. |
| PLOSSYS OCON | Graphical user interface of PLOSSYS netdome |
| 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 a format converter |
| Preview | Display of the contents of the graphic file on the screen |
| Ready file | →trigger file |
| Set header | File with items for configuring the →set collation |
| Set member | →Single job belonging to a →set collation |
| Single-drawer | Output device with one media tray or roll |
| Spool file | Final graphic file which is sent to the output device |
| Stargate | Preset →gate for the automatic distribution of →jobs to the installed →gates |
| Stamp | Graphic element which PLOSSYS netdome applies onto the document; not to be confused with the →flagpage |
| System configuration file | PLOSSYS netdome configuration file <code>plossys.cfg</code> in the directory <code>server/plotserv</code> |

..... *To be continued*

Terminology, Continuation

| | |
|------------------|--|
| Tray | Output tray of a printer |
| Trigger 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 |
| Additional sheet | →cover sheet, →trailer sheet, →missing sheet, →error sheet |

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 |
| CUPS | Common UNIX Printing System |
| DIN | German Institute of Standardization |
| DPF [®] | Digital Process Factory from SEAL Systems |
| FRANS | File Transfer Software by SEAL Systems |
| FTP | File Transfer Protocol |
| 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 |
| GKSMS | GKS Metafile in streamed format |
| GKSMSW | GKSMS in the case of which the drawing size is taken from the header |
| GUI | Graphical User Interface |
| 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 | Inter Process Communication |
| IPP | Internet Printing Protocol |
| ISO | International Standards Organization |
| JPEG | Joint Photographic Experts Group |
| JRE | Java Runtime Environment |
| kNet | Communications software by SEAL Systems on the base of TCP/IP |
| PAD | PLOSSYS Print Job Dialog from SEAL Systems |
| PDF | Adobe Portable Document Format |
| PDF/A | Adobe Portable Document Format (PDF/A standard) |
| PJL | Printer Job Language |
| PLOSSYS [®] | Product family from SEAL Systems |
| PNG | Portable Network Graphics |
| POD | Printing On Demand System by SEAL Systems |
| PS | PostScript (vector format) |

Abbreviations, Continuation

| | |
|------|--|
| PS/2 | PostScript Level 2 (vector format) |
| PSE | Personal Security Environment |
| TCP | Transmission Control Protocol |
| TIFF | Tagged Image File Format |
| UTF | Unicode Transformation Format |
| VGS | Versatec (vector format) |
| VRF | Versatec Raster Format (raster format) |
| VTIL | Versatec Tiled Raster Format (raster format) |
| XML | Extensible Markup Language |
| ZPL | Zebra Programming Language |

Keywords

Numbers

145.sealspooler.start 227

A

ACTIVE 98
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 ACTIVE_ANSI 98
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