SEALSYSTEMS
ENTERPRISE OUTPUT SOLUTIONS

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1 Version 10.07.0.2

1.1 Module General

- The fix to the security vulnerability CVE-2026-111497 (Brotli) has been implemented in SEAL Systems Ghostscript 10.07.0.2. bug-fix - security
  GS-558 29.10.2026 15:48:58

2 Version 10.07.0.1

2.1 Module General

new - Artifex Ghostscript V 10.07.0

- SEAL Systems Ghostscript V 10.07.0.1 is based on Artifex Ghostscript V 10.07.0.
  GS-544 17.03.2026 08:30:04

3 Version 10.06.0.1

3.1 Module ghostscript

- With the update to Ghostscript 10.06.0 the following CVEs have been fixed: CVE-2025-59798, CVE-2025-59799, CVE-2025-59800, CVE-2025-59801
  GS-538 29.09.2025 09:00:39
  bug-fix - CVE

- When converting from PDF into PDF, a few bytes at the end of the data could be lost when passing through JPG/DCT-encoded image data, for example the JPG EOI marker. It may not be noticeable. However, when converting into PDF/A, a PDF check program reported that the image data was incorrect due to a missing EOI marker. The bug has been fixed.
  GS-541 20.11.2025 13:08:20
  bug-fix - creating PDF/A

- The automatic compression selection feature that Artifex enabled in version 10.06.0 has been disabled again for black/white and grayscale images in the default settings so that the PDF files generated do not require more disk space than in the previous version.
  GS-540 19.11.2025 14:11:52
  new - automatic image compression

3.2 Module oempspreconv

- For some PostScript files, preprocessing with oempspreconv could result in missing contents when the file was further converted into PDF. The bug has been fixed in oempspreconv V 5.1.4.
  GS-436 28.07.2022 12:14:38
  bug-fix - file contents

- When a PostScript file was processed using the oempspreconv program and then further processed with Ghostscript, Ghostscript might display the error message "Error: unmatchedmark; OffendingCommand: >>." The bug has been fixed in oempspreconv V 5.1.4.
  GS-533 10.07.2025 11:14:28
  bug-fix - Fehler unmatchedmark

4 Version 10.05.1.1

4.1 Module General

bug-fix - MaxPatternBitmap

- On Windows, a crash could occur if MaxPatternBitmap was set to over 4 GB in size. The bug has been fixed.
  GS-525 31.03.2025 15:16:20

bug-fix - security

- Ghostscript V 10.05.1 fixes the following security vulnerabilities: CVE-2025-27830, CVE-2025-27831, CVE-2025-27832, CVE-2025-27833, CVE-2025-27834, CVE-2025-27835, CVE-2025-27836, CVE-2025-27837, CVE-2025-46646
  GS-526 31.03.2025 08:19:35

new - rotation

- When using -dFitPage or -dPDFFitPage, Ghostscript takes into account a possible /Rotate 180 contained in the input PDF file. This can change the rotation in the output file by 180 degrees compared to previous versions of Ghostscript.
  GS-529 14.04.2025 11:31:02

new - sysstop - full

- The FM package (OPT file) for Ghostscript has been change from the obsolete -stop -all to -stop -full.
  GS-530 17.04.2025 14:55:26

5 Version 10.04.0.2

5.1 Module General

- SEAL Systems Ghostscript V 10.04.0 BN 2 no longer requires the msvcr110.dll library of the Visual Studio 2012 redistributables. bug-fix - no msvcr110.dll
  GS-521 31.01.2025 15:14:04

6 Version 10.04.0.1

6.1 Module General

bug-fix - embed fonts

- When PDF files which contain texts without embedded fonts were converted into PDF using -sDevice=pdfwrite, the texts could not be displayed in the result. The bug has been fixed.
  GS-516 27.11.2024 16:46:28

bug-fix - compression

- The previous version of Artifex Ghostscript 10.04.0 saved many color images with DCT filter when using the pdfwrite device and the defaults. Artifex Ghostscript 10.04.0 saved them with flate filter. Although this provided better quality, it also increased the file size. The bug that led to saving with flate filter has been fixed.
  GS-517 21.11.2024 08:51:21

new - changed byte order

- The byte order with the bitrgbtags device has been changed. So far, the data about Red, Green, Blue and the tags were written in the TTRRGGBB byte order. Now, RRGGBBTT is used as byte order. The output file is written as modified PAM file with TUPLTYPE RGB_TAG. For this, the RRGGBBTT byte order fits better than the previous one, TTRRGGBB.
  GS-515 30.10.2024 12:08:04

new - size

- The check device might contain graphic elements that are located outside the MediaBox/CropBox. These are taken into account when determining the size. Thus, the size can be larger.
  GS-518 11.12.2024 11:38:18

7 Version 10.03.1.1

7.1 Module General

- When processing PDF files, sometimes an error happened with using -dFitPage. The bug has been fixed.
  GS-502 17.05.2024 09:39:21
  bug-fix - -dFitPage
- Sometimes an erroneous PDF file was generated when trying to convert a PDF file containing Optional Content (Layer) into PDF/A-1. The bug has been fixed.
  GS-504 22.05.2024 09:22:42
  bug-fix - Optional Content and PDF/A-1
- SMask was not accepted with adjustments for PDF/A-2 and -sColorConversionStrategy=RGB. The bug has been fixed.
  GS-506 05.06.2024 09:38:07
  bug-fix - SMask and PDF/A-2
- If Ghostscript is to adapt a page to a paper format, e. g. with -sPAPERSIZE=a4 -dFitPage -dFIXEDMEDIA, and the page has to be rotated by Ghostscript, the page could now be rotated by 180 degrees compared to previous Ghostscript versions.
  GS-503 21.05.2024 18:37:20
  new - rotation
- Ghostscript also supports Optional Content from Form XObjects containing a Group and a OC item.
  GS-505 22.05.2024 18:14:00
  new - Form XObjects and Optional Content (Layer)
- Ghostscript now supports Optional Content (Layer) when converting PDF into PDF. This can be deactivated via -dPreserveMarkedContent=false.
  GS-507 12.06.2024 09:49:11
  new - Optional Content
- When generating PDF files, XRef and ObjStm streams are used. PDF files can thus become considerably smaller. Via -dWriteXRefStm=false, the usage of XRef streams is deactivated. Via -dWriteObjStm=false, the usage of ObjStms streams is deactivated. Ghostscript does not use XRef and ObjStm streams with PDF 1.4 or lower.
  GS-508 12.06.2024 09:55:32
  new - XRef and ObjStm streams

8 Version 10.02.1.3

8.1 Module General

bug-fix - clipping in the pxlcolor driver

- The pxlcolor driver did not clip texts correctly in some cases. The bug has been fixed.
  GS-495 20.03.2024 10:19:35

bug-fix - the processing is not finished

- The conversion of a low resolution PDF file to TIFF has not been finished. This bug has been fixed with Artifex Ghostscript 10.02.1.
  GS-493 26.01.2024 09:30:12

9 Version 10.01.2.4

9.1 Module General

- If a PostScript file on the s390x platform works with a DeviceN color space and was converted into PDF with -sColorConversionStrategy=RGB, Ghostscript could crash. The bug has been fixed. bug-fix - DeviceN
  GS-483 03.11.2023 18:03:38
- The fix to the security vulnerability CVE-2023-46751 has been implemented in SEAL Systems Ghostscript 10.01.2 BN 4. bug-fix - security
  GS-484 06.11.2023 08:53:41

10 Version 10.01.2.3

10.1 Module General

bug-fix - security

- The fix to the security vulnerability CVE-2023-43115 has been implemented in SEAL Systems Ghostscript 10.01.2 BN 3.
  GS-475 12.10.2023 14:31:39

11 Version 10.01.2.2

11.1 Module General

- The fix to the security vulnerabilities CVE-2023-38559 and CVE-2023-38560 has been implemented in SEAL Systems Ghostscript 10.01.2 BN 2. bug-fix - security
  GS-469 10.08.2023 13:38:25
- With the conversion of PDF into raster formats, sometimes letters disappeared when using the -dTextAlphaBits=4 option. The bug has been fixed. bug-fix - missing texts
  GS-471 29.08.2023 10:22:01

12 Version 10.01.2.1

12.1 Module General

bug-fix - error message

- When processing complex PostScript files with oempspreconv, the error message "token too large, exceeds YYLMAX" could occur. The bug has been fixed in oempspreconv V 5.1.3.
  GS-449 27.02.2023 14:13:58

bug-fix - font embedding

- When creating PDF files with -sDEVICE=pdfwrite it could happen with some PDF files that multiple subsets were included for a font, although one subset would have been sufficient. The bug has been fixed.
  GS-455 19.04.2023 08:05:05

bug-fix - image as mask

- When using -sDEVICE=pdfwrite -sColorConversionStrategy=RGB -dColorImageFilter=/FlateEncode -dAutoFilterColorImages=false, special images (chroma keyed) could abort with "Error: Some elements of Mask array are out of range.". With -dAutoFilterColorImages=true, the processing would run without errors. However, this would lead to quality losses with other images because of the JPG compression then used. But the special images have to be handled always with lossless compression, which Ghostscript did so far only with -dAutoFilterColorImages=true. Artifex has provided a patch for this so that the processing is possible with -dAutoFilterColorImages=false as well. This modification is contained in Ghostscript 10.01.1 as well.
  GS-433 24.05.2022 10:28:13

bug-fix - portfolios

- When processing PDF portfolios, the PDF files of the portfolio were also embedded as files in the generated PDF file. The bug has been fixed.
  GS-456 26.04.2023 14:51:14

bug-fix - security

- Artifex Ghostscript 10.01.2 SEAL Systems build number 1 contains the security-related patches for CVE-2023-36664.
  GS-463 22.06.2023 08:35:30

new - delivery

- In the delivery package, most of the tools/gs<version>/Resource and tools/gs<version>/lib directories are no longer included. These resources are compiled into the Ghostscript program and no longer have to exist in the file system. The GS_LIB environment variable is therefore no longer set to these directories, but for Windows as GS_LIB=; and for Linux as GS_LIB=:. If changes to the resources are necessary, they can be post-installed by a separate package. The environment variable GS_LIB has to be set then as before: GS_LIB=<path>\Resource\Init;<path>\lib (for Linux separated by :). Caution: If the value of the GS_LIB environment variable contains the text Resource, Ghostscript ignores the compiled-in resources and expects the files in the file system. If they do not exist there, Ghostscript will abort with an error message. The 32-bit programs adspreproc32(.exe) and oempspreconv32(.exe) are no longer contained in delivery. Only the 64-bit programs adspreproc(.exe) and oempspreconv(.exe) are delivered.
  GS-458 28.04.2023 13:53:04

new - font mapping

- In Fontmap.GS, ArialBlack and Arial-Black are mapped to NimbusSans-Bold. Otherwise, Ghostscript would use NimbusSans-Regular.
  GS-453 27.03.2023 15:17:15

- Ghostscript 10.01.1 is supported. Ghostscript 10.01 replaces the previous, PostScript-based PDF interpreter with a PDF interpreter written in C. This will result in some changes: General changes: When searching for replacement fonts for non-embedded fonts for which no mapping is stored in Fontmap.GS either, Ghostscript no longer evaluates the font name for fonts or font attributes. Only the Flags item in the font descriptor is evaluated. So far, for example, the fonts Swiss721, Swiss721Narrow, and Swiss721Bold have been replaced by NimbusSans-Regular (Helvetica), NimbusSans-Narrow-Regular (Helvetica-Narrow), and NimbusSans-Bold (Helvetica-Bold). Now, it depends on which values are set in the PDF file at the Flags item of the Font descriptor. If, for example, the same value 32 (NonSymbolic) is stored there for all three fonts in an unsuitably created PDF file, all three fonts will be replaced by the same font NimbusSans-Regular (Helvetica). When using -dFitPage or -dPDFFitPage, a /Rotate statement contained in the PDF file was evaluated so far. This is no longer evaluated For example, this can cause pages to be rotated 180 degrees with -sPAPERSIZE=a4 -dFitPage -dFIXEDMEDIA. Changes in the PDF into PDF conversion with -sDEVICE=pdfwrite: When generating PDF/A, it is checked more precisely what is allowed. More data from the original PDF file is transferred to the newly created PDF file. For some PDF files where the result previously was not conform to PDF/A, a PDF/A-conform result can be achieved. But the reverse can also occur. If a file conform to PDF/A was generated before, it may not work now. The behavior of the PDF/A generation can be controlled via -dPDFACompatibilityPolicy and -dPDFSTOPONERROR. If Ghostscript replaces fonts when embedding fonts, the name of the replacement font is no longer used as the font name, but the original font name. For example, if the font Swiss721Narrow was not embedded previously, Ghostscript replaced the font with NimbusSansNarrow-Regular, which was then embedded as Helvetica-Narrow. If, as in the example above, NimbusSans-Regular (Helvetica) is used as the replacement font and not the Narrow variant, it will still be embedded as Swiss721Narrow. If Ghostscript recognizes errors in bookmarks (outlines, bookmarks) of a PDF file, the bookmark may not be transferred into the created PDF file. Ghostscript transfers the embedded files contained in the input file to the newly created PDF file.
  GS-437 29.08.2022 09:16:03

  new - Ghostscript 10.01.1

- With Ghostscript 10.01, the device pdfwrite can pass JPX-compressed image data from the input PDF file to the output PDF file, as long as the image data does not need to be converted due to color management or PDF/A requirements.
  GS-421 17.12.2021 10:32:28

  new - JPX data

- The following devices are no longer supported: epswrite, gksm, hpgl2, psgray, psmono, psrgb, pswrite. Instead of pswrite, ps2write can be used.
  GS-446 15.02.2023 11:52:58

  new - no longer supported

- For generating PDF/A, the following command line can be used: gs -sDEVICE=pdfwrite -o output.pdf @PDFA<n>params -f input.pdf with <n>=1,2,3. @PDFA<n>params has to be specified directly before -f <input_file>.
  GS-418 07.10.2021 15:42:47

  new - PDF/A

13 Version 9.52.0.13

13.1 Module General

new - security update of zlib

- Ghostscript 9.52 BN 13 uses zlib 1.2.12.
  GS-428 12.04.2022 09:33:01

14 Version 9.52.0.12

14.1 Module General

- In Excel, special patterns or shadings can be used as field backgrounds or borders in tables. These patterns are stored in the PostScript file when printing to PostScript. The bug that these patterns were not processed correctly when processed with Ghostscript has been fixed.
  GS-420 20.10.2021 14:03:24

  bug-fix - pattern in Excel

- Very large texts could cause an overflow in the arithmetic and cause artifacts that were not seen in Adobe Reader. The bug has been fixed.
  GS-414 24.09.2021 12:22:50

  bug-fix - texts

15 Version 9.52.0.10

15.1 Module General

bug-fix - missing circles

- The bug with missing circles has been fixed by a patch provided by Artifex.
  GS-401 06.07.2021 14:46:51

new - additional tags

- In cooperation with ROWE, the C module base/gspaint.c has been expanded. With this, the GS device bitrgbtags has been expanded so that additional tags can be generated (depending on the line width). The SEAL-specific extension in gxstroke.c has been improved and the SEAL-specific option -dReduceLineWidth has been introduced to allow additional manipulation of line widths, since very thin lines may have been displayed too thick.
  GS-402 13.07.2021 14:38:42

16 Version 9.52.0.6

16.1 Module General

- In GS 9.52 BN3, some SEAL-specific driver were missing, for example, pswrite. This bug has been fixed in GS 9.52 BN6. bug-fix - missing drivers
  GS-399 20.04.2021 15:17:37
- The security vulnerability CVE-2020-15900 has been closed. bug-fix - security
  GS-391 28.07.2020 09:24:27

17 Version 9.52.0.5

17.1 Module General

bug-fix - Artifex Ghostscript enhancements in 9.52.0

- Artifex Ghostscript 9.52 offers the following improvements, among others, which have been incorporated into the SEAL-specific Ghostscript: The bug that thin lines disappear in TIFF output still exists. However, the problem only occurs if the thin lines are part of an image, for example, TIFF -> PDF -> Scaling -> TIFF. Printers with PCL6 often have problems concerning the code amount and the processing speed. After worsening in GS 9.27, a significant improvement has been achieved in GS 9.52. This is also related to the fact that GS 9.27 contained a bug that caused the -sColorConversionStrategy=RGB option not to be evaluated. The configuration files are compiled into the program. This improves the processing speed slightly and the resource directory is no longer required. The -dPassThroughJPEGImages option is used by the PDF devices and provides the possibility that images do not need to be converted if they are present as JPEG in the input PDF files. Therefore, this option is used in GS 9.52. All PDF-2.0 files provided by the PDF association testsuite can be processed by Ghostscript.
  GS-389 01.07.2020 09:09:09

18 Version 9.52.0.4

18.1 Module General

- The GS version 9.27 contains a bug with evaluating the -dColorConversionStrategy=RGB option. This bug has been fixed by Artifex in the GS version 9.52.
  GS-380 09.12.2019 13:35:29
  bug-fix - -dColorConversionStrategy
- In Ghostscript, the file in- and output has been revised. The required changes have been implemented in the SEAL-specific devices hpgl2, pswrite, psmon and psrgb as well.
  GS-387 28.05.2020 13:37:49
  bug-fix - input and output
- The bug with disappearing numbers in circles has been fixed in the GS version 9.52. With this, a modified version of the "pdf_ops.ps" configuration file is no longer required.
  GS-381 11.12.2019 10:18:51
  bug-fix - numbers in circles
- PDF files containing a degenerated text matrix were not converted completely. The correction of the pdf_ops.ps configuration file has fixed the bug.
  GS-388 09.06.2020 15:49:37
  bug-fix - text matrix
- During the conversion, umlauts were displayed incorrectly. This has been fixed by a patch of the GS configuration file, gs_ttf.ps.
  GS-390 09.07.2020 08:51:45
  bug-fix - umlauts
- The SEAL Systems-specific enhancements of Ghostscript has been integrated in the version 9.52.
  GS-386 06.05.2020 13:38:27
  new - SEAL Systems enhancements

19 Version 9.27.0.14

19.1 Module General

bug-fix - crash

- The sporadic crashes of Ghostscript (64 bit, Windows) have been fixed
  GS-378 05.12.2019 11:18:18

bug-fix - white lines, fragmentation

- The bug with the fragmentation has been fixed in GS 9.27 BN14. The bug with the white lines has been fixed in a patch for GS 9.52 and is available as of BN5.
  GS-373 04.07.2019 08:42:58

20 Version 9.27

20.1 Module General

- Up to the GS version 9.27 (build number 12), not all PDF settings concerning the image processing have been reset correctly. Following extensive tests, all PDF settings have been reset to the defaults.
  GS-383 22.01.2020 09:59:23

  new - PDF settings

- The SEAL Systems-specific enhancements of Ghostscript has been integrated in the version 9.27.
  GS-369 11.04.2019 09:31:38

  new - SEAL Systems enhancements

21 Version 9.25

21.1 Module General

bug-fix - conversion into PNG

- The bug that Gray became Yellow when converting into PNG has been fixed by Artifex. The bug-fix is available as of the version 9.25 (build number 5).
  GS-356 18.05.2018 13:30:08

bug-fix - plspcl

- The bug (access violation) with the pointer arithmetic in the Ghostscript driver plspcl has been fixed. The bug occurred when evaluating the unnecessary parameter "-dupMargins={ 0,0,0,0 }". The printing margins should not be specified with this Ghostscript parameter in the PLOSSYS environment due to this is done by the PLOSSYS driver.
  GS-367 10.12.2018 13:17:03

bug-fix - security gaps

- The patches recommended by Artifex for closing security gaps have been applied and are available as of Ghostscript 9.23 (build number 87). Among others, the version 9.25 of Artifex fixes these security gaps.
  GS-363 23.08.2018 10:40:53

bug-fix - X11 and libfontconfig

- The GS version 9.25 (build number 8) has been generated without X11 driver and without using libfontconfig.
  GS-371 18.04.2019 13:30:09

22 Version 9.23.1

22.1 Module General

- In some case, JPEG images may not have been fully converted into PDF. The PDF files generated this way could not be processed by Adobe Acrobat. The bug has been fixed by Artifex. The improvement is available as of the build number 87.
  GS-359 13.07.2018 17:01:49

  bug-fix - JPEG images

- The bug with erroneous colors on Solaris when converting into TIFF has been fixed by Artifex. The bug-fix is available as of the build number 87 of version 9.23.
  GS-357 23.05.2018 09:06:17

  bug-fix - conversion into TIFF

- The bug with the orientation when output to PCL 6 has been fixed as of the build number 85.
  GS-358 28.06.2018 11:55:17

  bug-fix - PCL6

- With small resolutions, lines are output thicker than in the previous Ghostscript versions. This way, bugs with disappeared lines when scaling drawings and using 300 dpi have been fixed.
  GS-360 18.07.2018 11:51:51

  bug-fix - line width

- The bug that a stamp text with TextRenderMode STROKE was invisible has been fixed.
  GS-361 18.07.2018 13:49:45

  bug-fix - text not visible

23 Version 9.21

23.1 Module General

bug-fix - CropBox

- The bug when evaluating the CropBox has been fixed.
  GS-328 03.11.2016 17:11:11

bug-fix - conversion into TIFF

- The bug with erroneous locations of image parts when converting into TIFF has been fixed. Artifex has provided a patch which has been included in Ghostscript 9.21 as of the build number 76.
  GS-345 12.10.2017 12:56:48

bug-fix - PDF conversion

- In merged PDF file, fonts with the name but different subsets were contained. Due to this, texts were output incompletely when reconverting into PDF. The bug has been fixed.
  GS-338 27.03.2017 09:49:16

bug-fix - performance

- Artifex has provided a suggestion of improvement for undoing the performance deterioration again. The enhancement has been integrated into the Ghostscript version 9.21 of SEAL Systems. Artifex found out that the transparent text with TextRenderingMode invisible was printed which led to unnecessary calculations.
  GS-349 20.12.2017 11:15:46

bug-fix - incomplete display

- Big parts of an image were not displayed because "graphic states" were misinterpreted. The bug has been fixed.
  GS-336 07.03.2017 08:26:06

24 Version 9.18.0.1

24.1 Module General

- PCLXL only supports the RGB and Gray color spaces. Therefore, bitmaps can only be output with the image operator when they use these color spaces. CMYK bitmaps are simulated in the pxlcolor device of Ghostscript using many rectangles. By doing this, very much code is generated and this has a negative impact on the transfer rate to the printer and slows down the processing very much if the printer has problems processing these rectangles. With improvements by Artifex, images in the CMYK color space now are generated as PCLXL images.
  GS-321 21.07.2016 10:54:29

  bug-fix - CMYK

- With some customers, PDF files appeared containing embedded fonts which could not be processed. Therefore, Ghostscript used replacement fonts and as a result of this, text with erroneous encoding were generated. This bug has been fixed by an improvement from Artifex.
  GS-334 27.01.2017 15:19:26

  bug-fix - embedded font

- When processing erroneous PDF files, Ghostscript 9.17 returns an error status different to the one returned by previous versions. Instead of canceling and returning an error code in case of error, Ghostscript proceeds as long as it can and generates incomplete or nearly empty PDF files.
  GS-332 05.12.2016 10:18:11

  bug-fix - erroneous PDF file

- With the Ghostscript version 9.15, the color management has been reorganized. Instead of the -dUseCIEColor option, the -sColorConversionStrategy=RGB option in used now.
  GS-335 01.03.2017 17:00:42

  bug-fix - PDF/A

- When generating large TIFF files, temporary file were not be deleted. This bug has already been known to Artifex and has been fixed with the Ghostscript version 9.19. The improvement could be transferred to the Ghostscript version 9.17 and is available as of the build number 65.
  GS-325 08.09.2016 16:12:39

  bug-fix - temporary files

- Images with the "Interpolate=true" setting are simulated depending on the image resolution.
  GS-323 06.09.2016 14:34:58

  new - resolution

25 Version 9.17

25.1 Module General

bug-fix - PDF/A

- The bug that the conversion of PostScript files generated via the print output of e-mails from Microsoft Outlook into PDF/A-2 aborts with "signal error" has been fixed.
  GS-310 06.05.2015 11:17:49

new - SEAL Systems enhancements

- The SEAL Systems-specific enhancements of Ghostscript has been integrated in the version 9.17.
  GS-308 05.05.2015 13:23:05

26 Version 9.07.44

26.1 Module General

- The bug with missing umlauts such as "ä" has been fixed by a patch from Artifex which is available as of Ghostscript version 9.07 (build number 44). bug-fix - missing umlauts
  GS-301 26.06.2014 14:53:50
- The bug when displaying PDF files containing an incorrect FontBBox has been fixed. bug-fix - PDF/A
  GS-302 27.06.2014 13:58:39

27 Version 9.07.43

27.1 Module General

bug-fix - additional lines

- When processing large-scale drawing, additional strokes were created that disappeared again when the resolution was reduced. The bug has been fixed.
  GS-299 27.03.2014 15:56:58

28 Version 9.07.42

28.1 Module General

- The bug with wrong colors with PCLXL bitmaps has been fixed. bug-fix - wrong colors
  GS-300 15.05.2014 13:54:38

29 Version 9.07

29.1 Module General

bug-fix - image quality

- The quality of images when printing was bad due to Ghostscript saved the images using JPEG compression. The bug has been fixed by deactivation the JPEG compressing via the Distiller parameters in the gs_pdfwr.ps configuration file.
  GS-292 10.01.2014 15:20:06

bug-fix - check device

- The maximum and minimum coordinates were not initialized correctly in the check device. Thus, wrong surrounding rectangles were calculated for files with very large coordinates. The bug has been fixed.
  GS-279 19.03.2013 15:48:36

bug-fix - ColorSpace

- With the output of images in the pxlmono device of Ghostscript, no ColorSpace has been set. The eRGB ColorSpace is default in the printer. If now image data is generated, the printer expects the enough data for a RGB image. But, only a gray image is output containing less data. If the ColorSpace has already been set to Gray by change, the bug did not occur. The bug has been fixed in the Ghostscript version 9.07 as of build number 38.
  GS-293 10.01.2014 15:57:06

bug-fix - missing line

- In the generated TIFF file, line were missing after calling Ghostscript with too large BufferSpace that means when the value of BufferSpace had been larger than the byte number actually required for the internal bitmap. The bug has been fixed by Artifex.
  GS-282 13.06.2013 15:36:02

bug-fix - missing umlauts

- With the output to paper from Adobe Reader via SEAL MasterDriver, umlauts sometimes were missing. The bug has been fixed in the Ghostscript version 9.07 as of build number 40. With the build number 38, only a part of the bug has been fixed, that means, ä was displayed but ü was still missing in a bold font.
  GS-294 10.01.2014 16:17:41
- When printing from Microsoft PowerPoint via PLOSSYS netdome, characters were sometimes not printed. The bug has been fixed in the Ghostscript version 9.07 as of build number 38.
  GS-291 10.01.2014 15:06:09

bug-fix - background

- The bug that the background of graphics within a document were displayed black instead of white after converting into PDF/A has been fixed.
  GS-285 14.06.2013 11:27:42

bug-fix - TIFF

- The TIFF driver tiff24lzw, tiffpack and tifflzw can be used again.
  GS-295 10.01.2014 16:46:04

- For TIFFG4 output, the -dBW option had no effect for color bitmaps. The bug has been fixed. In addition to the -dBW option, the -dUseFastColor option must be specified. With the -dUseFastColor option, the previous color processing is used instead of the ICC color processing. The advantage of the previous color processing is that the processing performance is improved. Additionally, the ICC color processing does not make sense for a black/white conversion.
  GS-268 15.03.2012 13:08:59

  bug-fix - TIFFG4

- The bug that PDF files that could be processes by a previous version of Ghostscript no longer could be converted has been fixed.
  GS-286 14.06.2013 15:15:37

  bug-fix - previous version

- Converted PDF files could be displayed correctly and processed by Ghostscript and Nitro PDF Reader. But Adobe Reader output an error that a font could not be extracted. Additionally, some characters were missing. Similar error messages were sometimes output when adjusting PDF files to PDF/A using Callas. The problem occurred due to fonts were defined in several steps and, thus, the number of glyphs was not stored correctly in a font. The bug has been fixed by Artifex.
  GS-281 14.05.2013 08:26:42

  bug-fix - character

- For generating PCLXL code, the optimization of the code amount has been removed. With this optimization, very small bitmaps were simulated by rectangles. But bitmaps that are one pixel high were always displayed as rectangles. With this, even more code were produces than without simulation. Additionally, some printer models have problems when rendering many rectangles. This resulted in extreme long output times. By deactivating the optimization, the output times of some customers' test files could be reduced to 1/30.
  GS-287 28.08.2013 12:29:01

  new - faster

30 Version 9.05

30.1 Module General

bug-fix - no graphic

- The preprocessing of PostScript code by oempspreconv has been revised. If the PostScript files contained EPS code containing DSC comments for ViewingOrientation, these comments were treated like correspondent comments at the beginning of a page. With this, also the setpagedevice commands were executed more than once in a page. This resulted in an implicit initialization of the page and the graphic generated so far was deleted.
  GS-274 23.10.2012 14:47:57

bug-fix - no text

- If PDF was generated from PostScript files containing erroneous "LOCA tables", these erroneous font definitions were taken and the texts contained in the generated PDF files were not displayed. The bug has been fixed by an Artifex patch.
  GS-276 06.12.2012 11:02:45

new - redirect into file

- The bbox device supports the -sInfoFile option via which the output of the bbox device is redirected into a file.
  GS-270 30.07.2012 14:06:45

new - PCLXL bitmaps

- When converting PDF files containing bitmaps into PCLXL, the bitmaps are not converted into PCLXL bitmaps but simulated as a lot of rectangles. This results in a lot of printing code with long times for the transfer and image processing. Now, it has been turned out that no bitmaps are generated in the PCLXL output unless DeviceRGB has been set as color model, unless the bitmaps are paraxial or if the bitmaps has been specified mirrored (For example, this appears when printing Windows bitmaps. With Windows bitmaps, the lines are written from the bottom up.) In the Ghostscript version 9.05, for this, a patch of Artifex has been integrated which stores mirrored bitmaps (in X and Y directions) as PCLXL bitmaps. The Ghostscript drivers, pxlmono and pxlcolor, provide the -dCompressMode=1 | 3 option (default: 1) for the compression type for bitmaps: 1 specifies the Runlength compression and 3 the DeltaRow compression. Dependent on the input data, the PCLXL data could be reduced by 10 to 30 percent by using the compression type 3. Possibly, using the option for generating PCLXL by default makes sense. If bitmaps are not defined in the DeviceRGB color space, the input PDF files could be reconverted into PDF and the bitmaps be generated with the DeviceRGB color space via the dConvertCMYKImagesToRGB option. The ConvertCMYKImagesToRGB option is part of the "PDF settings" in the Ghostscript configuration and can be preset therefore. Doing this, for example, all input files in the Postscript and PDF processing in the colorgate would be converted using this option. But possibly changing the color spaces is not desired in every case.
  GS-225 16.11.2009 16:18:17

new - PDF/A-2 and PDF/A-3

- The output of PDF/A-2 and PDF/A-3 is supported.
  GS-271 15.10.2012 12:27:40

- The processing of ViewingOrientation has been changed in oempspreconv and Ghostscript. Ghostscript evaluates ViewingOrientation only if the SPLPREPROC_ROTATE environment variable has been set to N and AutoRotatePages=None is valid (AutoRotatePages=None is default). The evaluation is only performed with AutoRotatePages=None due to the other methods are based on texts anyway. Without texts, it will not be rotated even if ViewingOrientation exists. Before, it was rotated also with ViewingOrientation and AutoRotatePages=None. In this case, it was rotated by oempspreconv. In the logon script of Ghostscript, SPLPREPROC_ROTATE=N is entered as comment. So far, this environment variable is only evaluated by oempspreconv and the library derived from it.
  GS-272 18.10.2012 12:08:52

new - ViewingOrientation

31 Version 9.04.0.2

31.1 Module General

bug-fix - Artifex Ghostscript: CID-Font, PDF/A

- An important news is the processing of CID fonts. So far, customer-specific changes or specifications of resources were necessary to non-embedded CID fonts. If these were missing, the Ghostscript processing was aborted. With the new version, the DroidSansFallback-TrueType font has been introduced which is used automatically for missing CID fonts. This font is similar to the ArialMT font used by Adobe Reader in such cases. This automatic replacement is sufficient in most cases. Another new improvement is the enhanced PDF/A generation. So far, it could be happen that PDF files contained black graphic parts or even complete black pages after the conversion to PDF/A. Ghostscript now uses OpenJPEG source code for processing JPEG2000. In comparison to Jasper used so far, this is supposed to bring a significant higher performance and a lower memory requirement.
  GS-267 29.02.2012 12:30:04

bug-fix - erroneous areas

- The bugs that colored parts were not created in some files (from different producers), that graphic parts were overlapped by black areas or that patterns were missing in areas, have been fixed with the new Ghostscript version.
  GS-260 26.01.2012 16:15:50

bug-fix - PDF/A black

- The bug that, in some PDF files, parts of images or complete pages were displayed black when converting from PDF into PDF/A, has been fixed by improving the ICC color profile processing.
  GS-264 24.02.2012 10:28:37

bug-fix - program crash

- When processing PDF files generated by Acrobat Pro 10.1.2, Ghostscript aborts with segmentation violation. On Windows, Dr. Watson occurs and all further jobs are blocked then. The error reason has been resolved with the new Ghostscript version. Additionally, a signal handling has been introduced so that Ghostscript is terminated correctly with a correspondent return value in case of program crashes.
  GS-263 06.02.2012 09:27:44

bug-fix - rangecheck

- Ghostscript aborted the processing of some PDF files which are supposed to be erroneous with the error message "rangecheck in -.shfill-". These files can be processed now. The warning "**** Warning: Dropping incorrect smooth shading object." is output in this case.
  GS-265 24.02.2012 12:24:35

new - CID font

- Ghostscript replaces CID fonts that are not available by the new font, DroidDansFallback.ttf, and behaves like Acrobat Reader which also uses a replacement font in this case.
  GS-266 24.02.2012 13:57:47