SEALSYSTEMS
ENTERPRISE OUTPUT SOLUTIONS

Release Notes Raster Tools

Version 4.3.0 3

Module General 3
Module ltiff2pdf 3
Module tiffrot 3
Module tiffrotp 3

Version 4.2.0 4

Module General 4

Version 4.1.0 5

Module General 5
Module bmp2tiff 5
Module gtif2ata 5
Module ltiff2pdf 5
Module rastercomb 6
Module tiff2pdfc 6
Module tiffcp 6
Module tiffstamp 6

Version 4.0.0 7

Module General 7
Module bmp2tiff 7
Module ltiff2pdf 7
Module mil2tiff 7
Module mtiff_code 7
Module rastercomb 7
Module rc 8
Module tiffcp 8
Module tiffprae 8
Module tiffrotate 8
Module tiffstamp 8

Version 3.1.9.1 10

Module General 10
Module jpgprae 10
Module mil2tiff 10
Module rastercomb 10
Module tiffcp 10
Module tiffprae 10
Module tiffwin 11

Version 3.1.9 12

Module tiff2pdf 12
Module tiffstamp 12

Version 3.1.8 13

Module tiffcp 13
Module tiffrotate 13
Module tiffstamp 13

Version 3.1.7 14

Module rc 14
Module tiff2pdf 14
Module tiff2ps 14
Module tiffsettag 14
Module tiffstamp 14

1 Version 4.3.0

1.1 Module General

- When converting a TIFF file with 4 samples per pixel (RGBA) into PDF using ltiff2pdf, the colors in the PDF file sometimes were wrong. The bug has been fixed in ltiff2pdf V 4.5.6.
  RC-148 02.06.2025 18:33:39

  bug-fix - TIFF file with 4 samples per pixel

- The Raster Tools have been updated to 64 bit for Windows and Linux. On Windows, Visual Studio 2022 is used.
  RC-152 15.07.2025 09:46:05

  new - 64 bit

- Due to security vulnerabilities, LibTIFF has been updated to the version 4.7.1 for the ltiff2pdf, bmp2tiff and tiffcp programs. The output of some messages "Starting directory 0 at offset 0x0 might cause an IFD loop" is suppressed because they are misleading.
  RC-147 15.08.2024 09:52:24

  new - LibTIFF 4.7.1

1.2 Module ltiff2pdf

- TIFF files with the COMPRESSION_DEFLATE compression method are no longer streamed into the PDF file using passthrough. This fixes a bug with damaged images.
  RC-153 02.10.2025 10:53:27

  bug-fix - deflate data

1.3 Module tiffrot

- When rotating a TIFF file with tiffrot, black pixels could be lost. For smaller files, which the program splits into blocks of 512 lines each, this could occur in every 512th line. This could happen more often with larger files, where fewer lines fit into the buffer. With tiffrotp, this occurred with fewer lines because the program uses a larger buffer. The bug has been fixed in tiffrot and tiffrotp V 3.42.01.
  RC-154 23.01.2026 10:45:45

  bug-fix - black pixels lost

1.4 Module tiffrotp

- When rotating a TIFF file with tiffrot, black pixels could be lost. For smaller files, which the program splits into blocks of 512 lines each, this could occur in every 512th line. This could happen more often with larger files, where fewer lines fit into the buffer. With tiffrotp, this occurred with fewer lines because the program uses a larger buffer. The bug has been fixed in tiffrot and tiffrotp V 3.42.01.
  RC-154 23.01.2026 10:45:45

  bug-fix - black pixels lost

2 Version 4.2.0

2.1 Module General

new - signature

- All Windows programs of the Raster Tools are signed. This reduces problems with virus scanners.
  RC-145 17.01.2024 09:08:19

3 Version 4.1.0

3.1 Module General

- The length of the text/box identifiers has been increased from 10 to 20 characters.
  RC-16 06.10.2005 13:46:09
  bug-fix - length of text/box identifiers
- For TIFF files with resolution in terms of "dots per centimeter", the section sizes were not calculated correctly. The bug has been fixed.
  RC-104 25.07.2016 13:12:16
  bug-fix - sectioning

3.2 Module bmp2tiff

- The patch for CVE-2023-26966 has been integrated into the SEAL Systems-specific TIFF library V 4.5.0.1. New versions of the programs ltiff2pdf V 4.5.3, bmp2tiff V 4.5.2 and tiffcp V 4.5.1 have been created. The security issue CVE-2023-25433 is irrelevant due this only applies to tiffcrop which is not used by SEAL Systems.
  RC-135 07.07.2023 11:10:13
  bug-fix - security
- bmp2tiff V 4.4.2 supports uncompressed 16 bit RGB images, which effectively only use 3x5 bit R, G, B. This is used to create 3x8 bit R, G, B TIFF files.
  RC-125 15.12.2022 12:40:43
  new - 16-Bit RGB images

3.3 Module gtif2ata

- The gtif2ata program did not correct the SHORT type of the RowsPerStrip tag to type LONG to make the file ATA compliant. The bug has been fixed.
  RC-102 15.01.2016 13:46:05
  bug-fix - ATA

3.4 Module ltiff2pdf

- ltiff2pdf V 4.5.4 no longer supports the command line options -pdfa4b, -pdfa5b, ... due to the corresponding PDF/a levels are no longer supported.
  RC-136 16.08.2023 18:54:52
  bug-fix - PDF/A
- The patch for CVE-2023-26966 has been integrated into the SEAL Systems-specific TIFF library V 4.5.0.1. New versions of the programs ltiff2pdf V 4.5.3, bmp2tiff V 4.5.2 and tiffcp V 4.5.1 have been created. The security issue CVE-2023-25433 is irrelevant due this only applies to tiffcrop which is not used by SEAL Systems.
  RC-135 07.07.2023 11:10:13
  bug-fix - security

new - accounting information

- ltiff2pdf V 4.5.2 supports the new command line option: -acc <accounting-file>. In this file, the size in points (72 dpi) and the color information (gray or color) are stored in the JSON format for each page of the generated PDF file. The color information is evaluated from the Photometric Interpretation TIFF tag. For the values 0 (WhiteIsZero), 1 (BlackIsZero) and 4 (Transparency Mask) the color information is set to gray, or all other values to color. The actually used colors are not checked. The actual colors used are not checked. Also, it is not checked if the color palette contained with Photometric Interpretation 3 only consists of black an white or grayscale.
  RC-132 26.04.2023 10:29:45

3.5 Module rastercomb

bug-fix - rastercomb

- The bug that led to the display of an error message regarding ntdll.dll has been fixed.
  RC-17 05.12.2005 09:18:18

3.6 Module tiff2pdfc

bug-fix - erroneous PDF file

- The bug that tiff2pdfc created a corrupt PDF file has been fixed.
  RC-5 23.04.2004 15:18:28

3.7 Module tiffcp

bug-fix - security

- The patch for CVE-2023-26966 has been integrated into the SEAL Systems-specific TIFF library V 4.5.0.1. New versions of the programs ltiff2pdf V 4.5.3, bmp2tiff V 4.5.2 and tiffcp V 4.5.1 have been created. The security issue CVE-2023-25433 is irrelevant due this only applies to tiffcrop which is not used by SEAL Systems.
  RC-135 07.07.2023 11:10:13
- With tiffcp V 4.5.2, CVE-2023-40745 has been fixed. CVE-2023-41175 is irrelevant due to the corresponding source code is not used by components from SEAL Systems.
  RC-140 12.09.2023 15:32:50

3.8 Module tiffstamp

bug-fix - STP file

- When changing the STP file with a $<new-stp-file>$stamptext text, an error could occur in tiffstamp. For large TIFF files, another error could occur if there were no write permissions in the root directory for the current directory. The bugs have been fixed.
  RC-117 27.11.2018 12:14:48

4 Version 4.0.0

4.1 Module General

- LibTIFF has been updated to the version 4.5.0. — new - LibTIFF 4.5.0
  RC-119 01.06.2017 09:08:20

4.2 Module bmp2tiff

- When converting from BMP into TIFF, the resolution contained in the BMP file (dpm) is passed to the generated TIFF file (dpi/dpcm). — new - resolution
  RC-79 03.03.2011 07:55:05
- bmp2tiff and tiffcp have been updated to LibTIFF 4.5.0 due to security reasons. The programs have been updated to 64 bit. — new - security
  RC-122 22.08.2022 13:46:47
- The bmp2tiff program additionally supports uncompressed BMP files with 16 bits per pixel (BITFIELDS compression). Other supported formats are the uncompressed formats b/w, 8 bit index and 24 bit RGB. — new - Windows bitmap
  RC-77 25.06.2010 08:54:25

4.3 Module ltiff2pdf

- The ltiff2pdf program will no longer be delivered with the pdf package but with the rc package. — new - ltiff2pdf
  RC-124 31.10.2022 09:21:52
- ltiff2pdf has been ported to LibTIFF 4.5.0, 64 bit. Tiled TIFF files with JPEG compression where a JPEG tile does not have the correct width are rejected. — new - TIFF 4.5.0
  RC-131 11.12.2019 13:10:34

4.4 Module mil2tiff

- The interpretation for tiles with an index > 256 has been slightly modified. — bug-fix - interpretation for tiles
  RC-120 05.02.2020 15:46:35

4.5 Module mtiff_code

- If two instances of mtiff_code run at the same time, sometimes the program crashed and the pages were mixed. — bugfix - mixed pages
  RC-74 17.06.2009 08:46:01

4.6 Module rastercomb

- If the output file has not been specified by -o with rastercomb, an error could occur when writing the output file. The bug has been fixed. — bug-fix - output file name
  RC-129 10.02.2023 16:20:01

4.7 Module rc

bug-fix - program crash

- With complex TIFF files, tiffstamp sometimes crashed. The bug has been fixed.
  RC-113 27.08.2018 12:24:38

4.8 Module tiffcp

new - color table

- With TIFF files containing color index images, tiffcp can correct the size of the color table when this is inconsistent to the BitsPerSample tag.
  RC-80 13.04.2011 16:02:40

new - security

- bmp2tiff and tiffcp have been updated to LibTIFF 4.5.0 due to security reasons. The programs have been updated to 64 bit.
  RC-122 22.08.2022 13:46:47

4.9 Module tiffprae

bug-fix - resolution

- The recognition of TIFF files in which the resolution has been specified incorrectly (Resolution = <n>/0) has been improved for tiffprae. When using the -v option, always "<X|Y>Resolution = 0" is output. So far, a very large value was output. For evaluating PLOTSIZE, the default 400 dpi is used.
  RC-85 03.05.2013 08:57:31

bug-fix - incorrect TIFF file

- Incorrect TIFF files with erroneous links to the start of the IFD could cause crashes. tiffprae and tiffstamp ignore these images and only work with the images having an IFD that can be read correctly.
  RC-83 14.12.2011 10:58:58

4.10 Module tiffrotate

bug-fix - segmentation fault

- With very large TIFF files, tiffrotate sometimes caused a segmentation fault. The bug has been fixed.
  RC-88 16.05.2014 13:50:06

bug-fix - tiffrotate

- With large TIFF files, tiffrotate sometime caused an error. The bug has been fixed.
  RC-112 04.01.2018 11:25:23

4.11 Module tiffstamp

bug-fix - %PAGE%

- When %PAGE% were used in multiple stamp texts, tiffstamp replaced only one text correctly. The bug has been fixed.
  RC-109 24.05.2017 14:44:21

bug-fix - alternative stamps

- When using alternative stamp definitions via a stamp text such as $stamp$, stamp texts sometimes disappeared. The bug has been fixed.
  RC-86 02.08.2013 15:16:16

bug-fix - wide TIFF files

- When stamping very wide TIFF files, sometimes the program crashed with the "Buffer overflowed" error message. The bug has been fixed.
  RC-87 26.02.2014 11:17:25

- Incorrect TIFF files with erroneous links to the start of the IFD could cause crashes. tiffprae and tiffstamp ignore these images and only work with the images having an IFD that can be read correctly.
  RC-83 14.12.2011 10:58:58

  bug-fix - incorrect TIFF file
- The bug with stamping using graphic files has been fixed in tiffstamp.
  RC-108 22.05.2017 10:06:52

  bug-fix - graphic stamp
- With complex TIFF files, tiffstamp sometimes crashed. The bug has been fixed.
  RC-113 27.08.2018 12:24:38

  bug-fix - program crash

5 Version 3.1.9.1

5.1 Module General

new - more tools

- For processing TIFF files, tiffwin, tiffinfo, tiffsplit, tiffsect, tiffscale, tifftile and tiffjoin are available as further tools.
  RC-91 25.11.2014 08:23:18

5.2 Module jpgprae

new - analyze JPG

- For analyzing JPG files, the jpgprae tool is available (Windows and Linux).
  RC-103 06.05.2016 12:08:50

new - jpgprae

- The jpgprae tool also outputs information from the EXIF data in a JPG file.
  RC-123 18.10.2022 08:31:24

5.3 Module mil2tiff

new - correct C4

- The mil2tiff program corrects problematic resolution specifications in the C4 files.
  RC-96 10.04.2015 13:56:41

5.4 Module rastercomb

bug-fix - black line

- Depending on the structure of the TIFF G4 file, black lines were displayed across the image when converting into PDF with rastercomb. The bug has been fixed.
  RC-99 26.10.2015 15:49:08

5.5 Module tiffcp

bug-fix - LZW

- The bug when converting TIFF LZW files containing tags for the G4 compression (Group3/4-options) has been fixed.
  RC-101 16.11.2015 17:16:28

new - ignore thumbnail

- The -v command line option is available for ignoring thumbnails.
  RC-98 25.08.2015 09:37:52

5.6 Module tiffprae

bug-fix - read TIFF file

- The bug with reading incorrect IFDs has been fixed with tiffprae version 1.25.
  RC-94 26.11.2014 15:04:01

new - border recognition

- With tiffprae version 1.26, the recognition of borders has been improved.
  RC-90 05.09.2014 11:31:40

5.7 Module tiffwin

- tiffwin evaluates the TIFF tag Orientation. With the TIFFWIN_IGNORE_ORIENTATION = Y environment, the TIFF tag will be not evaluation as before. new - orientation
  RC-95 31.03.2015 13:11:43

6 Version 3.1.9

6.1 Module tiff2pdf

bug-fix - creating PDF

- When creating PDF files from TIFF files with G4 compression and Photometric Interpretation 1, Adobe Reader reported problems with the file. The bug has been fixed.
  RC-78 27.07.2010 11:59:39

bug-fix - pdfmerge

- If the pdfmerge tool is missing under Solaris, tiff2pdf outputs a correct error message.
  RC-64 11.08.2008 18:57:53

6.2 Module tiffstamp

new - flagpage

- Flagpage items at the borders (INSIDE or OUTSIDE) are supported. For this, a new flagpage stamp file (-fp fp.stp) and up to 5 flagpage texts (-pftxt1 text1 -fptxt2 text2 ... -fptxt5 text5) are available. The flagpage can be used independently of the stamp data.
  RC-61 13.06.2008 14:02:31

new - Unicode and fonts

- The fonts available so far were revised and unified. The package supports additionally Unicode fonts. For activating, the environment variable SEALFONTS has to be set. The variable points to the directory where the font data is stored (by default, $PLSTOOLS/fonts). For supporting Unicode, the variable SEAL_DEFAULTCODEPAGE has to be set to UTF8. Both environment variables are automatically defined in the 280.sealfonts.env logon script. Hint: Do not use both environment variables in version 3.1.9 unless you have already used them in version 3.1.7. Otherwise, variations at the software fonts (20001 -2050x) can occur which could cause a modification of the stamp configuration (for title blocks).
  RC-53 16.11.2007 14:30:16

7 Version 3.1.8

7.1 Module tiffcp

- TIFF files with different compressions are processed correctly by using tiffcp for preprocessing. bug-fix - compression
  RC-10 09.02.2005 10:04:24

7.2 Module tiffrotate

- In the usage, the rotation option has been corrected from -rot to -r. bug-fix - usage
  RC-37 12.12.2006 11:26:31

7.3 Module tiffstamp

- The GRAY_STAMP stamp type is supported. It corresponds to the STAMP stamp type. new - GRAY_STAMP
  RC-14 01.07.2005 16:28:38

8 Version 3.1.7

8.1 Module rc

new - fault tolerance

- Errors of the CCITT data structure in the last raster line are ignored.
  RC-24 01.09.2006 16:14:38

8.2 Module tiff2pdf

bug-fix - output file

- Directory names with dots and files without file extension are correctly processed as output files.
  RC-9 17.12.2004 16:28:48

bug-fix - character larger 127

- TIFF files with specifications (for example, the creator), which contain characters above 127, are processed correctly.
  RC-34 07.12.2006 17:17:22

8.3 Module tiff2ps

bug-fix - resolution

- If the TIFF file has the resolution 0, the default resolution 72 is used to avoid endless loops.
  RC-12 07.03.2005 19:18:16

8.4 Module tiffsettag

bug-fix - images

- TIFF files with images consisting of one tile only are processed correctly.
  RC-48 23.04.2007 14:07:37

8.5 Module tiffstamp

bug-fix - large files

- The stamp process of very wide and long TIFF files has been corrected.
  RC-21 23.02.2006 16:19:03