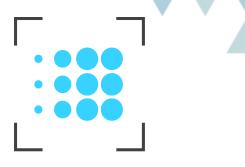
DPFManager

nestor Workshop Formaterkennung Kiel, 2017-06-29, Marco Klindt



DPF Manager

DPF Manager is the most advanced TIFF conformance checker for digital preservation



We are creating a strong open source community of experts with a common interest: FILE FORMAT VALIDATION for DIGITAL PRESERVATION

We are looking early adopters like you. Join the community now!



DPFMANAGER FEATURES

Digital preservation needs to go beyond

TIFF structure

Gain full control over the technical properties and structure of TIFF images.

Digital preservation

Get a report about the suitability of the image for Long Term Preservation.

Check ISO compliance of TIFF/EP and TIFF/IT files. Receive errors and warnings regarding ISO compilance.

Report

Get multiple reports in different formats, including HTML, XML, JSON, for different purposes.

Policy checker

Define your own acceptance criteria. Validate the TIFF images based on user defined policy rules.

Flexible

DPF Manager is suitable for different scenarios. Working as standalone application, client-server or command-line all in a single APP

Metadata fixer

Include or remove metadata inside the TIFF files. Work with different metadata containers including EXIF, XMP, IPTC

DPF Manager is distributed for multiple platforms (Windows, Linux and Mac).

Reference documentation

Select one of the following options to see the specified documentation



Baseline TIFF 6.0

TIFF 6.0 Specification. Part 1: Baseline TIFF

Baseline TIFF (Part 1) is the core of TIFF, the essentials that all mainstream TIFF developers should support in their products. Baseline TIFF image is capable of describing bilevel, grayscale, palette-color, and full-color RGB images. Tiff Revision 6.0 Final - June 3, 1992

validation rules for the TIFF IFH

A TIFF file begins with an 8-byte image file header(IFH), containing the following information:

Bytes 0-1: The byte order used within the file. Legal values are: "II" (4949.H) for little-endian and "MM" (4D4D.H) for big-endian.

Bytes 2-3: An arbitrary but carefully chosen number (42) that further identifies the file as aTIFF file.

Bytes 4-7: The offset (in bytes) of the first IFD. The directory may be at any location in the file after the header but must begin on a word boundary.



CONFORMANCE CHECKER

File 🚯



Configuration 3

- Baseline HTML.dpf
- Baseline JSON.dpf
- Baseline PDF.dpf
- Baseline XML.dpf
- Custom config...

Check files

Reports

31/05/2017

■ BBM_92_6_2.tif









DPF Manager

MULTIFILE REPORT

1 file processed

0 Conforms to Baseline TIFF 6.0





BBM_92_6_2.tif

Conformance checker

Baseline TIFF 6.0

2 errors

0 warnings



Failed Score 75%



BBM_92_6_2.tif

/home/dpfmanager/DPF Manager/server/1496227616537/BBM_92_6_2.tif

Size: 542 Kb

▲ Beseline TIFF 6.0

© Extended TIFF 6.0

Errors Warnings
Baseline TIFF 6.0 2 0

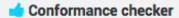
> IFD Tags

Expert mode



| | Tag Id | Tag Name | Value | |
|----------|--------|--|---------------------------------|--|
| - | 256 | ImageWidth 720 | | |
| 1 | 257 | ImageLength | 480 | |
| *** | 258 | BitsPerSample | [8,8,8,8] | |
| ,* | 259 | Compression | LZW | |
| 6 | 262 | PhotometricInterpretation RGB | | |
| 0 | 271 | Make Canon | | |
| 2 | 272 | Model | Canon EOS-1D X | |
| 6 | 274 | Orientation | TopLeft | |
| | 277 | SamplesPerPixel | 4 | |
| - | 282 | XResolution | 96000/1000 | |
| 1 | 283 | YResolution 96000/1000 | | |
| • | 284 | PlanarConfiguration | Chunky | |
| | 296 | ResolutionUnit | 2 | |
| | 305 | Software | Adobe Photoshop CS6 (Macintosh) | |
| m | 306 | DateTime | 2012:12:16 12:08:35 | |
| - | 315 | Artist Michael Setzpfandt | | |
| © | 33432 | Copyright michael@setzpfandt.com?+49-177-935 138 | | |



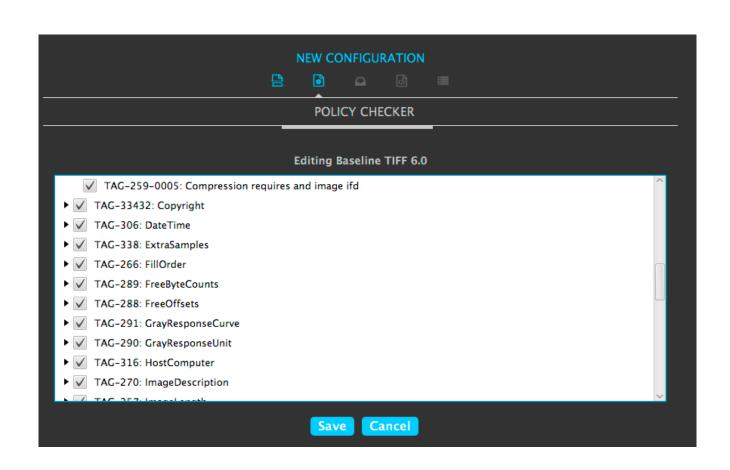


3 Baseline TIFF 6.0



| Туре | ID | Location | Description | |
|------|--------------|----------|---|--|
| 0 | IFDR-0002 | IFD1 | Invalid Compression for RGB image | |
| 0 | TAG-259-0003 | IFD1 | The Compression tag must have a valid value | |
| 0 | TAG-315-0002 | IFD1 | Some older TIFF files used this tag for storing Copyright information. | |
| 0 | TAG-281-0005 | IFD1 | MaxSampleValue Tag is not defined. Then 2**(BitsPerSample) - 1 value is assumed | |
| 0 | TAG-280-0005 | IFD1 | MinSampleValue Tag is not defined. Then 0 value is assumed | |
| | | | | |







```
<mets>
[...]<nisoContainer>
<niso:BasicDigitalObjectInformation>
 <niso:fileSize use="System">234</niso:fileSize>
 <niso:FormatDesignation>
  <niso:formatName use="System">
                 TIFF/6.0</niso:formatName>
 <niso:formatVersion/>
 </niso:FormatDesignation>
     <niso:FormatRegistry>
     <niso:formatRegistryKey/>
     </niso:FormatRegistry>
     <niso:byteOrder use="System">
              Little endian</niso:byteOrder>
     <niso:Compression>
         <niso:compressionScheme use="System">JPEG
     </niso:compressionScheme>
[...]
comeDetail>
      <implementation_checker TIAProfileChecker="false"</pre>
TIFF_Baseline_Core_6_0="false" TIFF_Baseline_Extended_6_0="false"
TIFF EP="false" TiffITP1ProfileChecker="false"
TiffITP2ProfileChecker="false" TiffITProfileChecker="false" ref="DPF
Manager totalErrors="2" totalWarnings="5" version="3.2.1">
[...]
</mets>
```

dpf-manager [commands]

These are the available commands:

- check: Performs a local files check.
- config: Manages the configuration files.
- gui: Launches graphical user interface.
- modules: Manage the conformance checkers.
- periodic: Manage periodical checks.
- remote: Performs remote file checks (client mode).
- server: Launches the server mode.

CMDLine

dpf-manager [commands]

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http://dpfmanager.org