



DPF Manager

The open source
COMMUNITY

WEBINAR

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www.easyinnova.com



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DPF Manager introduction

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2. TI/A Standard Initiative

DPF Manager

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Q&R

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Scope of the Project

DPF Manager
Open source software
Main features



Standardization process
TI/A Standard Initiative
Research



Early adopters
Developers
TIFF Experts



TI/A Standard Initiative

It is there!

- Tiff was the major file (digital master) for archival purposes
 - TIFF is a final rendered image
 - TIFF is 16bit
 - TIFF is lossless
 - TIFF is professional
 - TIFF is multichannel and multilayer
- Many archives and museums store TIFF files
 - because the others do it
 - because it is of large data volume
 - because it is widely used and well documented

88% Memory Institutions



standardization

- TIFF-Files will be checked for “correctness”.
- TIFF is a complex standard with a lot of possible features. It is not clear to say what “correctness” means. It can depend on the application.
- However: It is necessary to define and recommend a well-defined set of features that are accepted by most memory institutions.



TI/A Standard Initiative



The approach is well-known:

- A PDF is a full featured digital document, some of them are not wanted in archives.
- A PDF/A is an adopted version, fulfilling archival needs. Some features are **forbidden** some are **required**.
- We follow a similar approach: TIFF will be precisely specified based on a feedback of a expert user community and a survey on “hot” data.

Recommendation of TIFF for Archives is in progress

Well specified set of mandatory, forbidden and optional tags

Standardization process has started in 2016

The limitations of the baseline TIFF are too severe for many applications in digital archiving. It is important that, besides crucial technical metadata such as ICC color profiles (in case of color images) also important descriptive metadata is stored within the image file. Having descriptive metadata available (such as content description, iconography, copyright and ownership information etc.) is crucial for every archive. Having this information in the same file as the image data guarantees that this information will always be associated with the image

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Initial presentation

DPF Manager

1. What is DPF Manager?
2. DPF Manager Features
3. Use Scenarios
4. Open Source Project
5. DPF Manager current version
6. What's next

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What is DPF Manager?



DPF Manager

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

In considering the suitability of particular image for the purposes of digital preservation, relies on the use of a stable, open and well documented file format as well as some data object properties acceptance criteria.

- TIFF Baseline 6.0
- ISO conformance checker (TIFF/EP and TIFF/IT)
- TIFF for Archival (TI/A) **to be accepted as ISO Recommendation**
- TIFF identification
- Extract TIFF information
- Custom policy rules
- Manage and correct metadata

DPF Manager Features



Multi- platform



Flexible



Modular



Technologies

maven

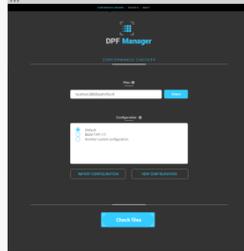



DPF Manager

Use Scenarios

1

Standalone



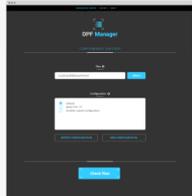
Graphic Interface

```
C:\>dpfmanager.exe -
files=/archive/*.tiff -
config=config.xml
-reports_folder=/tmp/reports -
fixed_files_folder=/tmp/files
```

Command line

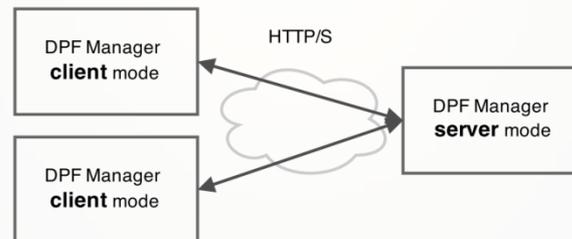
2

Client - Server



```
client:\>dpfmanager.exe
-server=80.45.32.45
-port=80
```

Client



```
server:\>dpfmanager.exe
-mode=server
```

Server

Use Scenarios

3

Web application



Browser Client



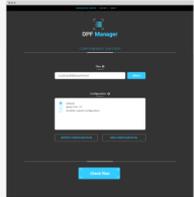
```
my_own_software.java
1 import EasyInnova.DPFManager.*;
2
3 DPFManager dpfm = new DPFManager(options);
4 Report r = dpfm.check('file1.tiff');
```

```
server:\>dpfmanager.exe
-mode=server
```

Server

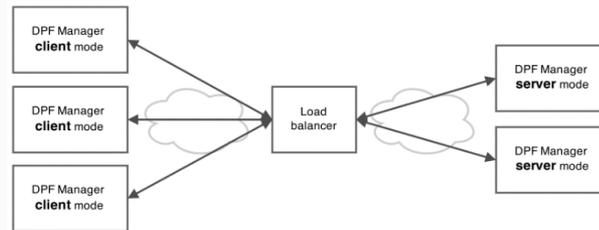
4

High availability



```
client:\>dpfmanager.exe
-server=80.45.32.45
-port=80
```

Client



```
server:\>dpfmanager.exe
-mode=server
```

Server

Integration with OAIS

Document lifecycle
Conformance checking at:

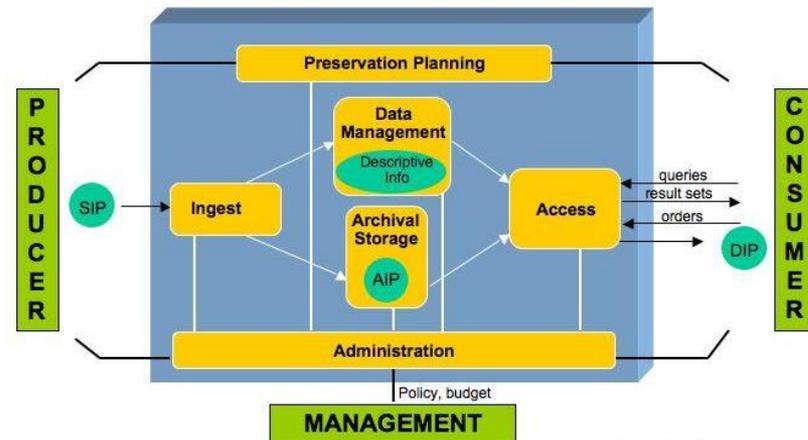
Creation

Transfer

Migration

Digitalization

Reference framework
QA, AIP generation



Open Source Project



Open source licenses



MPL v2+



Free as in Freedom

GPL v3+

Open source project



<http://dpfmanager.org/>

<https://github.com/EasyinnovaSL/DPFManager>

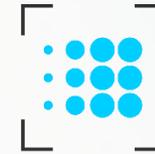
<http://preforma-project.eu/dpf-manager.html>

DPF Manager current version



VERSION 2.5 – Released on August 31th, 2016

- **Conformance checker**
 - Baseline version 6.0
 - TIFF/EP
 - TIFF/IT (Profile 1 and 2)
- **Policy checker**
 - Create Policy rules from GUI
- **Metadata fixer**
 - Add, edit or remove metadata
 - Apply auto-fixes in TIFF files
- **Interfaces**
 - Command-line interface
 - Graphical user interface
 - Server interface
 - Web interface
 - Scheduled checks
- **Modular architecture**
 - Extend developing your own implementation checker
 - Extend developing your own policies
 - Extend developing your own auto-fixes
 - Develop your own modules for DPF Manager



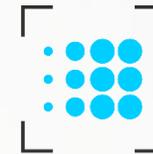
DPF Manager

What's Next?

In the next VERSIONS...

<https://github.com/EasyinnovaSL/DPFManager/milestones>

- **Conformance checker**
 - TI/A (TIFF for Archival)
 - TIFF identification
- **Policy checker**
 - New policies to apply
- **Metadata fixer**
 - New metadata container IPTC
 - Detect and fix inconsistency metadata
 - Detect and report file provenance
- **OAIS integration**
 - METS profile report.
 - StructMap: reporting internal TIFF structure.
 - Administrative metadata: reporting technical metadata, rights, digital provenance
- **Conformance checkers interoperability**



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Join us!



Early adopters

visit

www.dpfmanager.org



DPF Manager

Install now

For Windows, Mac OS X and Linux

visit

www.ti-a.org

TIFF experts



Get involved!

visit

<http://www.dpfmanager.org/community.html>
<https://github.com/EasyinnovaSL/DPFManager>

Developers



New pull request



DPF Manager

Thanks for your attention!
FEEL FREE TO ASK US



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