



Summary Report T1 Migration Test

Version: 1.0
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Date: 31 October 2006

National Library of the Netherlands (Koninklijke Bibliotheek)
Digital Preservation Department

Summary Report T1 Migration Test

History of Summary Report T1 Migration Test

Document version	Date of modification	Author	Summary of modifications
1.0	31 October 2006	Caroline van Wijk	

Related documents

Test plan KB and Migration, Caroline van Wijk (2006)

Report T1 Migration Test MyMorph, Caroline van Wijk (2006)

Report T1 Migration Test Adobe Acrobat 7.0, Caroline van Wijk (2006)

Report T1 Migration Test Bullzip PDF Printer, Caroline van Wijk (2006)

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Summary Report T1 Migration Test

1 Introduction

1.1 Purpose of this document

The results of the T1 Migration Tests are summarised in this document

1.2 Sections in this document

Summary T1 Migration Test

The summary contains the migration results of the T1 Migration Test in perspective of digital preservation and general remarks.

Preliminary conclusion and follow-up

Preliminary conclusion and next concrete steps.

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2 Summary T1 Migration Test

Results Migration guideline

Performance

General

All tools performed the conversion within a reasonable time span. No requirements were defined for the performance of the conversion tools in advance, however.

The larger the document, the longer the conversion process is.

The only performance concern can be large files that contain many different kinds of fonts, images, graphs and diagrams.

Bullzip PDF Printer

Bullzip PDF Printer creates small PDF documents without fonts; a quick conversion is the result.

Longest conversion time span was 16 seconds for a file of 4375 kb containing images, graphs, charts, histograms.

Adobe Acrobat 7.0

Adobe Acrobat 7.0 creates large high quality PDF documents, fonts included if they are in the original document.

Longest conversion time span was 1 minute and 25 seconds for a file of 4375 kb containing images, graphs, charts, histograms.

MyMorph

MyMorph creates large high quality PDF documents, fonts included if they are in the original document. One PDF, created by MyMorph, does not have all its fonts embedded or enclosed as subset.

Longest conversion time span was 3 minutes and 10 seconds for a file of 4375 kb containing images, graphs, charts, histograms.

Accuracy

General

- Most Word-documents were converted in an accurate manner (according to the predefined characteristics), except for the PDF version of the target file.

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- No tests could be run for the WordPerfect documents and Adobe Acrobat 7.0 and Bullzip PDF Printer as the original WordPerfect application had not been installed on the test computer.

Bullzip PDF Printer

- The PDF version that Bullzip PDF Printer created was PDF 1.4
- Fonts are never embedded or enclosed as subset
- WordPerfect documents can only be converted when the source file application has been installed.
- Batch migration is not possible
- Scheduled (automatic) migration to PDF is not possible
- No control over the configuration of the PDF (version, compression, embedding fonts, tagging and so on). Configuration is important for when the PDF Guidelines (see File format research project) or PDF/A or a specific version of PDF are used to create PDF files for digital preservation purposes.
- No logging
- Note: restart of computer was necessary after conversion of 10 documents

Adobe Acrobat 7.0

- The PDF version that Adobe Acrobat 7.0 created was PDF 1.6 (PDF/A can be created when a Post script file is used)
- WordPerfect documents can only be converted when the source file application has been installed.
- Batch migration is not possible
- Scheduled (automatic) migration to PDF is not possible
- Control over the configuration of the PDF
- Logging

MyMorph

- The PDF version that MyMorph created was not a PDF/A or PDF 1.4 version (PDF 1.4 is the version on which PDF/A has been based). MyMorph has been created for conversion of images as its main target. However, a small test using Jhove software showed that the created PDF still was a 1.3 version.
- The page width and height of the PDF documents that are created by MyMorph are 215,9 mm x 279,4 mm. This is not a regular height and width. It caused one document to convert inaccurate.
- One WordPerfect document could not be converted, no error message was shown.
- Batch migration to PDF is possible
- No source file applications needed for conversion to PDF (e.g. the WordPerfect files could be converted without the installation of WordPerfect)
- Scheduled (automatic) migration to PDF is not possible
- No control over the configuration of the PDF (version, compression, embedding fonts, tagging and so on). Configuration is important for when the PDF Guidelines (see File format research project) or PDF/A or a specific version of PDF are used to create PDF files for digital preservation purposes.
- No logging

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Preliminary conclusion and follow-up

Preliminary conclusion

None of the tested tools meet the Migration guideline. During the tests more requirements for conversion tools have become apparent.

Follow-up

Requirements

For the next research period the requirements for conversion tools will be extended.

The requirements are:

- Accuracy (technical and functional properties of source file and target file), including for example the actual printing accuracy of the original and converted file
- Tool configuration possibilities
- Performance
- Batch migration and automatic migration possibilities
- Logging of conversion process
- Error messages

MyMorph

- Seek contact with the developers of MyMorph to see if they are interested in a combined effort to improve their tool MyMorph together with PLANETS or KB.
- One PDF does not have all its fonts embedded or enclosed as subset, the fonts are also different from the fonts that Adobe Acrobat 7.0 has embedded in its PDF file. Further investigation required.

Batch migration and automatic migration tools

Due to an internal KB decision, next tests will research (proprietary) batch migration tools that can be used in the operational workflow of the e-Depot.