THE MOST EFFICIENT SOLUTION
FOR YOUR MASS DIGITIZATION
What is ScanFlow™ Professional?

ScanFlow™ Professional...

... is an efficient and easy to use workflow & management software. It increases the throughput and output quality of your mass digitization projects.

Manage your staff

Manage staff

Organize different hardware

Organize hardware

Plan the book & document logistic

Plan books

Automatize data flow & tasks

Automatize tasks

What is ScanFlow™ Professional?

Manage your staff

Supervisors

Operators

What shall be done by whom?

Organize different hardware

Scanner hardware

Which hardware shall be used?

Plan the book & document logistic

Sheets

Books

Documents

Index cards

Maps

Which workflow fits to the requirement of the documents?

Automatize data flow & tasks

Job creation

Job data transfer

Format conversion

Processing

Archiving

Which task shall be processed next?
ScanFlow™ Professional - What is the BENEFIT?

**Output quality**

ScanFlow™ ensures a constant & high output quality.

**Working efficiency**

ScanFlow™ increases the throughput.

**Structure efficiency**

ScanFlow™ leads to a clear structure.

**ADVANTAGES**
- No loss of efficiency
- All tasks fit perfectly
What does ScanFlow™?

Struggling without workflow software...

Disadvantages
- Manual documentation
- Manual copying & working
- Manual quality check
- High communication overhead
- Handling errors
- No project overview

Who is doing what and when?
...get organized...

Structured working with ScanFlow™ Professional

Advantages
- Automatic processing of system tasks
- Automatic documentation
- Job tracking (which job is where?)
- Automatic copying
- Quality check support

ScanFlow™
...brings order into chaos...
Workflow example

Environment / Data flow diagram

Flow chart

Executors

Tasks

User task = manual tasks
System tasks = tasks that are done automatically

... let the software work
ScanFlow™ - Global functions

Parameter controlled processing

Original (Master TIFF) + Processing parameter → Work Copy (Copy TIFF)

- **Cropping rectangle**
- **Deskew line**
- **Extrapolation**

**ADVANTAGES**
- Easy setting of processing parameters
- Processing parameter can be set:
  a) globally for a whole job and
  b) individually for single pages
- Master files remain unchanged

Undo function (e.g. Deskewing)

- Deskew error
- Adapt settings
- Quality Check
- Next task

**ADVANTAGES**
- Go back to any previous task
- Easy correction of settings:  
  a) Correct settings stay unchanged  
  b) Wrong settings can be adapted

Processing suggestion & Live preview

Original file → Processing suggestion & adaption with Live preview

- **Deskewing**
- **Cropping**

**ADVANTAGES**
- Automatic processing suggestions
- Displayed in Live preview
- Exact adjustment easily possible with Live preview
- Available for all processing functions (e.g. Deskewing, Cropping, Extrapolation, Brightness & Contrast adaption...)
ScanFlow™ - Global functions

**Multiple workflows**

<table>
<thead>
<tr>
<th>Workflow 1</th>
<th>Workflow 2</th>
<th>Workflow 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job creation</td>
<td>Scanning</td>
<td>Image processing</td>
</tr>
<tr>
<td>Job upload to server</td>
<td>Set cropping rect</td>
<td>Quality control</td>
</tr>
<tr>
<td>Ok</td>
<td>Check result</td>
<td>Create JPEG 400dpi</td>
</tr>
<tr>
<td>Create PDF</td>
<td>Quality control</td>
<td>Set split line</td>
</tr>
<tr>
<td>Job upload to server</td>
<td></td>
<td>Image import</td>
</tr>
</tbody>
</table>

**ADVANTAGES**

- Create and customize multiple workflows
- Use different workflows simultaneously
- Different projects can be processed with the same staff and hardware simultaneously
- Change workflow settings anytime when needed

**Multiple outputs**

<table>
<thead>
<tr>
<th>Final result</th>
<th>Images</th>
<th>Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIFF, color, 400 dpi</td>
<td>JPEG, greyscale, 400 dpi</td>
<td>PNG, b/w, 300 dpi</td>
</tr>
<tr>
<td>PDF</td>
<td>OCR*</td>
<td>XML*</td>
</tr>
<tr>
<td>OCR*</td>
<td>XML*</td>
<td>Epub*</td>
</tr>
</tbody>
</table>

* In combination with OCR

**ADVANTAGES**

- ScanFlow™ creates multiple file formats
- File formats can be created automatically and simultaneously

**Job finalization**

All finalization tasks (e.g. Transfer to storage, delete auxiliary files) are done by ScanFlow™ automatically.

**Job**

- Job file
- Processing meta data
- Master scans
- Final result
- Auxiliary files
- Auxiliary folders

**AUTOMATIC BY**

ScanFlow™

**Final storage**

- Backup
- Archive
- Server

**ScanFlow™**

TM

**Multiple outputs**

- JPEG, greyscale, 400 dpi
- PDF, color, 400 dpi
- TIFF, color, 400 dpi
- PNG, b/w, 300 dpi

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**Job finalization**

All finalization tasks (e.g. Transfer to storage, delete auxiliary files) are done by ScanFlow™ automatically.
ScanFlow™ - Analysis, Reporting & Tracking*

* Not included in the standard ScanFlow™ package. Customized module optional acquirable on request.

Analysis, Reporting & Tracking tools

ADVANTAGES

- Different process overviews
- Easy project progress analysis
- Fast identification of bottlenecks within scanning projects
- Track & log the status quo of each job (e.g. in which workflow stage is each job, etc.)

ScanFlow™ - Quality control tools

Task completeness check

ScanFlow™ reports automatically if every task has been executed and generates status reports of all embedded workflow tasks.

Quality control recommendation

ScanFlow™ provides recommendations for:
- Which pages might have lower quality?
- Which pages require an additional quality control?

Quality check

ScanFlow™ supports fast quality checking:
- Pages can be easily marked
- Explanatory notes can be easily added

* Faulty pages are marked red.
ScanFlow™ - further functions & tools

### Resource organization tools

**Inter-task message tool**
ScanFlow™ enables users to pass notes within the software by using inter-task messages.

**Remote monitoring tool**
ScanFlow™ includes a monitoring tool for all processes by remote access via web interface.

**Scheduling function**
ScanFlow™ allows to schedule all tasks to guarantee an optimal resource management (e.g. time consuming and computationally intensive tasks can be processed over night).

### Task automation functions

**Automatic execution of external scripts**
ScanFlow™ allows to execute external scripts automatically by using a CLI (Command Line Interface).

**Automatic import functions**
ScanFlow™ supports automatic import functions.

**Automation of FTP-uploads**
ScanFlow™ enables the automation of FTP-uploads.
CUSTOMER FEEDBACK

National Library of Sweden

Treventus: From when on and for what projects have you used the ScanFlow™ workflow?
Mr. Magnusson [KB]: Up to date (2013 jan) we have produced 2500 pdfs of the Swedish Government out of a total of 5600 volumes.

Treventus: Where are the advantages of the ScanFlow™ workflow from your point of view?
Mr. Magnusson [KB]: Its a powerful and flexible system that is easy and fast to do changes in the production depending on what we produce. [...] It is so easy for any of us to make a new flow or changes in the old one.

Treventus: What can be done better, faster with the support of the ScanFlow™ workflow than before?
Mr. Magnusson [KB]: I think you are fast and effective!

University Library of Gothenburg

Treventus: Where are the advantages of the ScanFlow™ workflow from your point of view?
Mr. Stark [UB.GU]: First of all we can use different scanning stations regardless of type (robot, camera, flatbed or sheetfed scanners) and still use the same general way of collecting the images from the scanner, do a first quality check and apply workflows. This leads to a consistent way of handling the images and it also speeds up the time it takes to train new operators. Also important point for us is the relative easy way of setting up a new workflow. The high degree of automation in the image processing which includes the possibility to move and copy files to and from different locations on the network is another advantage of ScanFlow™.

Treventus: Why did you choose or go for the ScanFlow™ workflow?
Mr. Stark [UB.GU]: We could not find any competing software that did it better.
We also have to add that the support given by Treventus is very swift and they have been very cooperative when we have asked for changes or improvements in the software.

Treventus: What can be done better, faster with the support of the ScanFlow™ workflow than before?
Mr. Stark [UB.GU]: The main difference is the automation, earlier we had to move the files more or less manually between different locations and processes which meant that we could not start a continuous process for several jobs that could run during the night. Almost everything was done during office hours. Now all these parts are done overnight. So we can focus on the image processing. Now you know where your images are located so you don't have files laying around “forgotten” on different workstations. As some negative feedback: New functionality is often added, but the documentation is lagging far behind.

Roger Magnusson (Image Technician)
National Library of Sweden / Kungl. Biblioteket
eMail: roger.magnusson@kb.se
WEB: www.kb.se/english

Lennart Stark (IT-developer digital services)
University of Gothenburg, SWEDEN
eMail: lennart.stark@ub.gu.se
WEB: www.ub.gu.se
The Bavarian State Library (BSB) is one of the largest European universal libraries. The library’s unique collection profile is characterized by an extremely heterogeneous material [...] of more than 200,000 titles from thousands of years of cultural heritage. As an international research library it offers services to scholars and students worldwide [...] And it allows 24/7-access to information for everybody around the world. It is therefore a primary strategic objective of the library to digitize as soon as possible its unique holdings and to make them accessibly free of charge on the WWW. The Munich Digitization Center (MDZ) of BSB has built up a huge production line for digitizing the rare books, manuscripts and special collections from the 8th up to the 16th century.

**Customer Feedback**

**Treventus:** What was the activator to look for a suitable workflow software?
**Dr. Brantl [BSB]:** In the Scanning Center there are more than 24 different scanners [...]. It is a real challenge to coordinate the different processes caused by different hardware: this was the activator to look for a special workflow-solution in order manage all scanner devices under one single workflow. After an implementation phase in 2010 we are running now all scanners with the ScanFlow™-Software of Treventus.

**Treventus:** Why did you choose or go for the ScanFlow™ workflow from Treventus?
**Dr. Brantl [BSB]:** ScanFlow™ allows using a centralized workflow system which is scalable and flexible for nearly all customers needs. As soon as it is implemented it is an easy to use system.

**Treventus:** Which problems or challenges does the ScanFlow™ workflow solve?
**Dr. Brantl [BSB]:** ScanFlow™ is ideal for managing jobs on different systems. You can start e.g. with scanning at the robot and you can always switch to another system e.g. a normal book scanner. The software integrates the whole hardware within our digitization centre.

**Treventus:** What were your expectations with using the ScanFlow™ workflow?
**Dr. Brantl [BSB]:** We expected time and cost reduction through automization of the workflow and we have the experience that there are now fewer errors within the production cycle of a book through the functionality of ScanFlow™. By this we do save time and costs during the digitizing process.

**Treventus:** What can be done better or faster within your digitizing projects by using the ScanFlow™ than before?
**Dr. Brantl [BSB]:** The entire digitizing process runs smoother. Every step from “books check in” at the scanning center, the production, quality control, up to the checking of the final data transfer in the long-term digital archive at the Leibniz Super Computing Centre (which means 445 Terabyte at 31.12.2012).
PRODUCT FAMILY

Awards
Winner of the European ICT Grand Prize
Innovation prize of the Theodor Kery foundation
1st place in Genius Innovation Award