



TRUE DATA INTEGRATION WITH GROOPER

TACKLING TOUGH DATA TASKS IN HIGHER EDUCATION

The world of higher education is riddled with numerous hurdles surrounding documents and information locked within.



WHO IS BIS?

BIS is a Company based out of Edmond, Oklahoma with over 35 continuous years of designing, developing and implementing intelligent document processing solutions. BIS partners with top manufacturers in both the software and hardware industries to ensure we always include the best technologies in every solution. We stand-by our products and partners and use everything we offer internally through out our facilities, including our state-of-the-art data migration center.

- **Scanners**

- Canon
- Kodak
- Fujitsu
- Epson
- Crowley

- **Electronic Contentment Management**

- Hyland OnBase(Cloud or On-Prem)
- Box (Cloud)
- ApplicationXtender (On Prem)

- **Data Migration Center**

- Document Conversion
- MicroFilm Conversion
- MicroFiche Conversion



WHAT IS GROOPER?

Grooper is an intelligent document processing and digital data integration solution that empowers organizations to extract meaningful information from paper/electronic documents and other forms of unstructured data. The platform combines patented and sophisticated image processing, capture technology, machine learning, natural language processing, and optical character recognition to enrich and embed human comprehension into data.

- Digital document processing
- Single platform
- Patented OCR
- Image processing
- Machine learning
- Natural language processing
- Zero code
- Zero templates
- Open architecture



PAINFUL DATA TASKS IN HIGHER EDUCATION

- **Painful Tasks**
 - Repetitive Manual Data Entry
 - Human Errors
 - Image Cleanup/Corrections
 - PPI Redaction
 - Multiple scans of the same document
 - Lack of data integration
 - Inability to consume electronic documents
- **Painful tasks effect**
 - Print to Scan method
 - More Paper consumed
 - Longer onboarding cycles
 - Fewer students processed
 - Longer Financial Aid approval cycle
 - Inconsistent data
 - Duplicate Archived Records
 - Increased storage cost



HOW CAN BIS HELP?

INDUSTRY EXPERTS AT YOUR SERVICE

BIS has helped customers reach levels of success that were previously unimaginable.

- Fully Staffed Service Bureau
- End to End solutions design
 - Scanners
 - ECM
 - Workflows
 - Document Retention
 - E-Signature



THE FUTURE OF YOUR DATA

INTEGRATING LINES OF BUSINESS

Grooper is revolutionary software that will transform the way you perceive and process information.

- In house developed software
- True data integration
- Automation
- Grooper-As-A-Service
- Grooper Desktop
- Grooper Enterprise



HOW DOES GROOPER HELP?

- Eliminate multiple scans of the same document
- Ingestion of Electronic documents
- Eliminate Manual Keying
- Normalize Data
- Export Values to both ECM and SIS





INCOMING DOCUMENTS

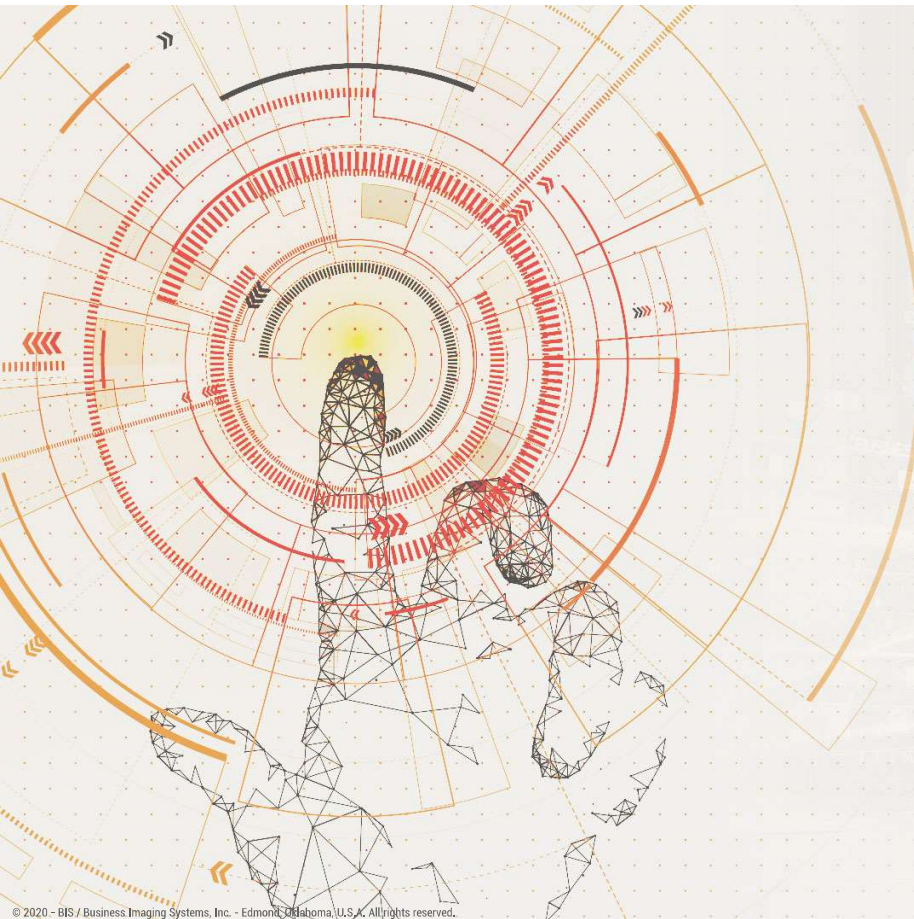
DOCUMENTS COMING IN NUMEROUS WAYS?

NO PROBLEM

Historically, many new student documents came in via mail or physical documents, but that trend has started to change. Especially over the last two years, more documents are received electronically.

- Email Watcher
- Folder Watcher
- Scan
- Fax
- Import Electronic Documents



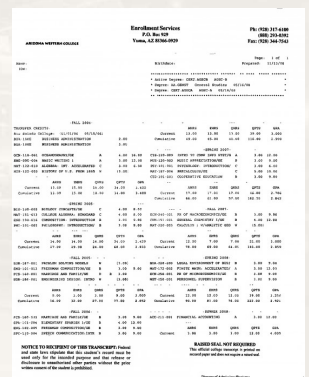
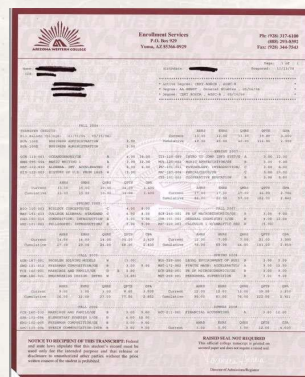


POOR IMAGE QUALITY? CLEAN IT UP

AUTOMATED IMAGE ENHANCEMENT

Poor Quality Images lead to Poor Results. Have you ever received documents from a student that were skewed, unclean, etc.? No longer an issue with Grooper.

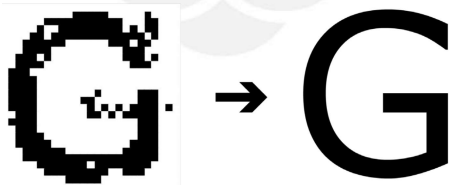
- Skew Corrections
- Speck Removal
- Cropping
- Color drop out
- Line Removal
- Shape Removal
- Resize
- Redaction



OPTICAL CHARACTER RECOGNITION

WHAT IS OCR?

OCR is the technology that converts typed or printed text from Digital Images or scanned documents into machine readable, encoded text.





SYNTHETIC OCR

BUILT TO BE BETTER

We have a patented Synthetic OCR process that allows to segment each region of a document and stitch together to retain the documents' structure. This allows us to search an entire document for unique identifiers.



CLASSIFICATION

BATCH SCANNING MADE EASY

Grooper's advanced classification allows you to easily ingest numerous types of document at once through a single process.



YEAR	2004
SEMESTER	FALL
EARNED HOURS	16.00
GPA HOURS	16.00
SEMESTER HOURS	48.00
GPA	3.00

Course No.	Course Title	Grade	Hours	Points
GE 102	COMPOSITION & LITERAT...	B	3.00	9.00
GE 109	INTRO TO COLLEGE MATH	B	3.00	9.00
GE 122	FRESHMAN SEMINAR	A	1.00	4.00
GE 140	WORLD CIVILIZATION	A	3.00	12.00
GE 155	PRIN OF BIOLOGICAL SCL...	C	3.00	6.00
GE 155L	PRIN OF BIOLOGICAL SCL...	A	1.00	4.00
GE 185	HEALTH CONCEPTS	C	2.00	4.00
			16.00	48.00

INSTITUTION CREDIT :

FALL 2004

GE 102	COMPOSITION & LITERATURE I	3.00	B	9.00
GE 109	INTRO TO COLLEGE MATH	3.00	B	9.00
GE 122	FRESHMAN SEMINAR	1.00	A	4.00
GE 140	WORLD CIVILIZATION I	3.00	A	12.00
GE 155	PRIN OF BIOLOGICAL SCIENCE	3.00	C	6.00
GE 155L	PRIN OF BIOLOGICAL SCIENCE	1.00	A	4.00
GE 185	HEALTH CONCEPTS	3.00	B	9.00

Extraction

ELIMINATING MANUAL INDEXING

One of the most time-consuming parts of processing data is having to find values and manually index the document. Grooper automates this by identifying the values needed and extracting that data from the Text generated during OCR.

EXPORTING DATA

BETTER DATA INTEGRATION THAN EVER

Grooper uses Content Management Interoperability Services, which facilitates export to many different Electronic Content Management Systems. In addition, Grooper can export to Student Information Systems.

CMIS



INGEST



OUTPUT



KEEPING REAL WORD PROBLEMS IN MIND WITH EVERY RELEASE.....

Our 35 years of experience with the top software and hardware manufacturers and firsthand experiences with end-user's frustration drive BIS to continue taking Grooper to the next level.

ALWAYS IMPROVING...

- **Grooper v2.6**
 - Fuzzy Regular Expression
- **Grooper v2.7**
 - Key Value Pair
 - Bound Region OCR
- **Grooper v2.72**
 - Integration with Microsoft Azure Services
 - CMIS Connectors
- **Grooper v2.8**
 - Better integration with Visual Studio
 - Expanded use of Expression
- **Grooper v2.9**
 - Integration with Microsoft Office & BOX
 - Further ability to classify and extract data
- **Grooper v2021**
 - Label Sets
 - Smart PDFs
 - Ingestion API



WHERE HAS GROOPER BEEN IMPACTFUL?

THE ALL-INCLUSIVE APPROACH

Our approach to Grooper is simple. Invest in Grooper and you get everything included. Every feature and function is included from the beginning. Our all-inclusive platform is scalable to all departments and use cases.

- Admissions-Registrar
- Financial Aid
- Human Resources
- Financial Information Management
- Transcript Processing





INVOICE PROCESSING

WORK SMARTER NOT HARDER

- Single Process for multiple invoice types
- Automated Calculation Validation
- Export Indexed Values to Accounting Platforms
- Flag Invoices that are inaccurate
- Onboard Vendors with ease





STUDENT RECORDS & TRANSCRIPT PROCESSING

REDUCE STUDENT ONBOARDING TIME

Streamlining the Onboarding process follows a simple method: Do more with less. Eliminate Manual indexing and submission of the same date multiple times. Grooper can export to multiple platforms in a single process.

- Redaction
- Automated indexing
- Flag Exceptions
- Validation against existing SIS records
- Export indexed Data to SIS & ECM





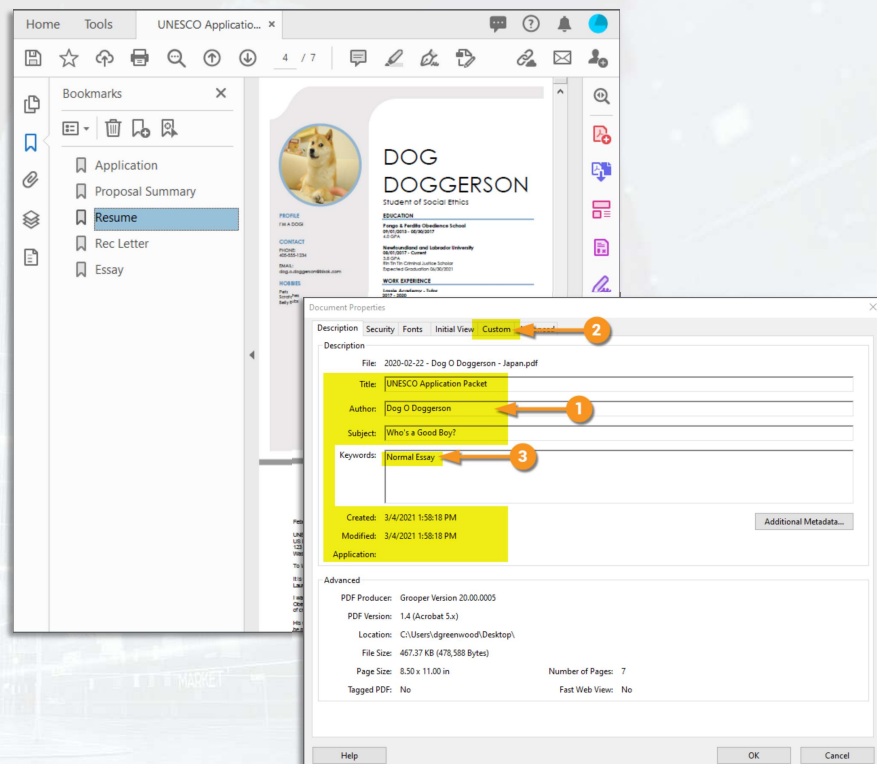


SMART PDF

DOCUMENTS AND DATA AS ONE

The Smart PDF architecture's goal is to unify document content into a single source. Too often it is the case that a document content is divided in two, with the image-based content being represented as a PDF file and the data content living in a database or other content management platform
Why can't they exist as one unit?

- Annotations
- Bookmarks
- Metadata



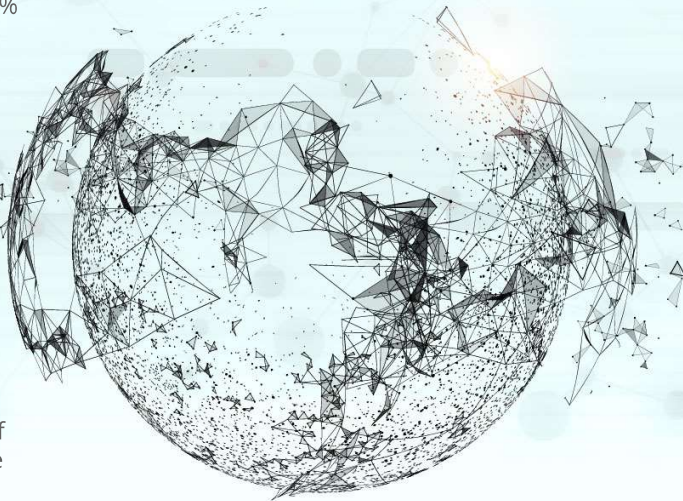


WHY ARE SMART PDFS IMPORTANT

- An AACRAO survey showed that 51% of survey respondents are sending PDF transcripts; 85% are receiving; and 39% are doing both. Of those currently sending PDF transcripts, 82% use a third-party provider.

- Of the respondents **receiving** PDF transcripts, 91% receive PDF transcripts from between one and five different third-party providers.

- Survey results showed that **only 3%** of those sending PDF transcripts include embedded XML or EDI.





DEPARTMENT BENEFITS

- **Admissions-Registrar**
 - Faster Student Onboarding
 - Increased Enrollment Possibilities
 - Better data integration with SIS
 - Better Student Experience
- **Financial Aid**
 - Faster Student Aid Approvals
 - Better Student Experience
 - Competitive Advantage vs other schools
- **Human Resources**
 - Protection of Sensitive Information
 - Less Errors
 - Faster Employee Onboarding
- **Financial Information Management**
 - Accounts Payable
 - Accounts Receivable
 - Invoice Processing
- **Transcript Processing**
 - Faster processing
 - Quickly identify inconsistencies





Paving the way to a better future

BIS IS HERE TO HELP SHAPE YOUR FUTURE

- **Grooper**

- Desktop
- Enterprise
- GAAS

- **Scanners**
- **Workflows**
- **Automation**
- **Data conversion**





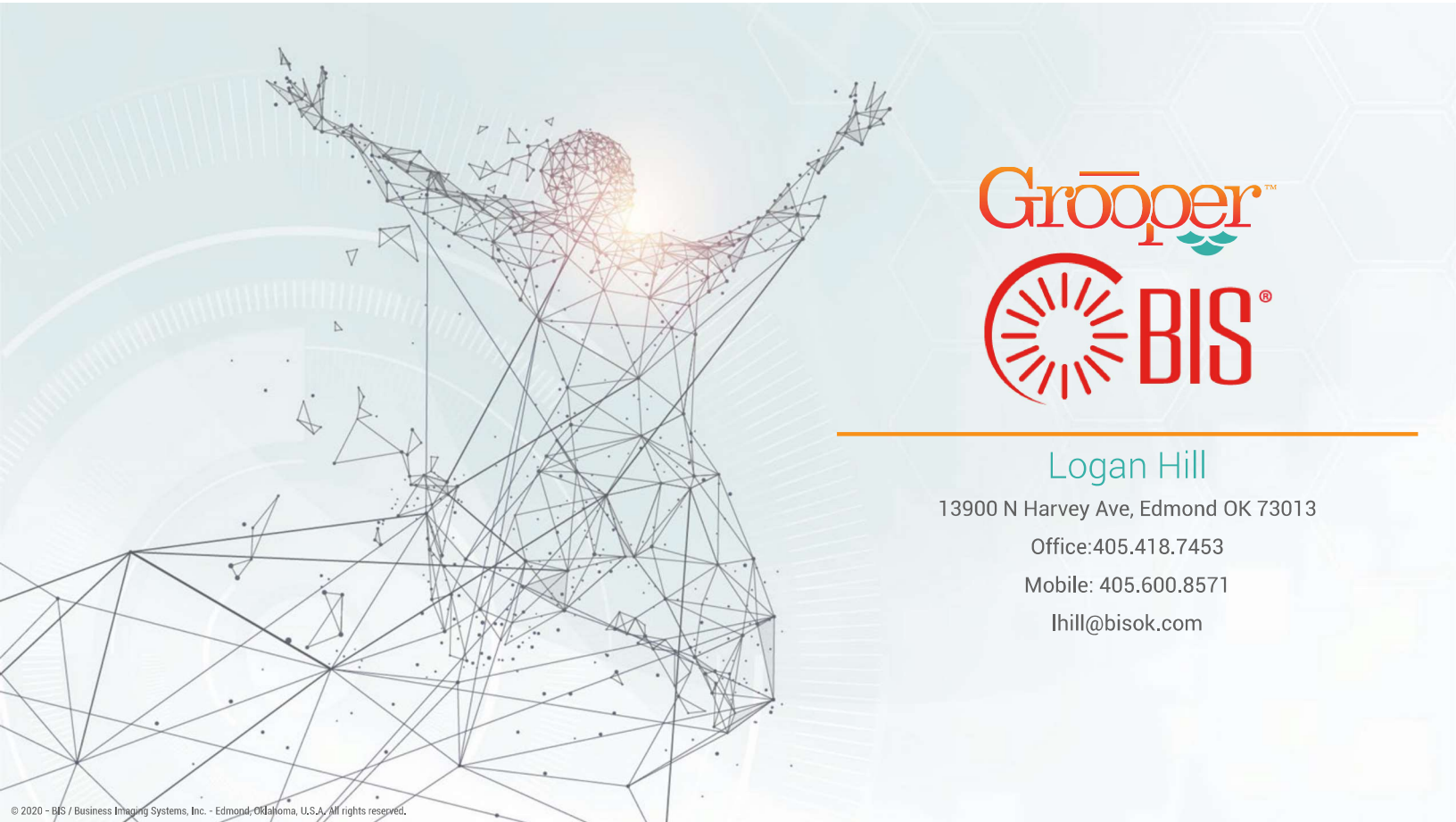
STATEWIDE CONTRACT 1070

- AVOID A TIME-CONSUMING BID PROCESS
- SECURED PRICING





Q&A SESSION



Logan Hill

13900 N Harvey Ave, Edmond OK 73013

Office: 405.418.7453

Mobile: 405.600.8571

lhill@bisok.com