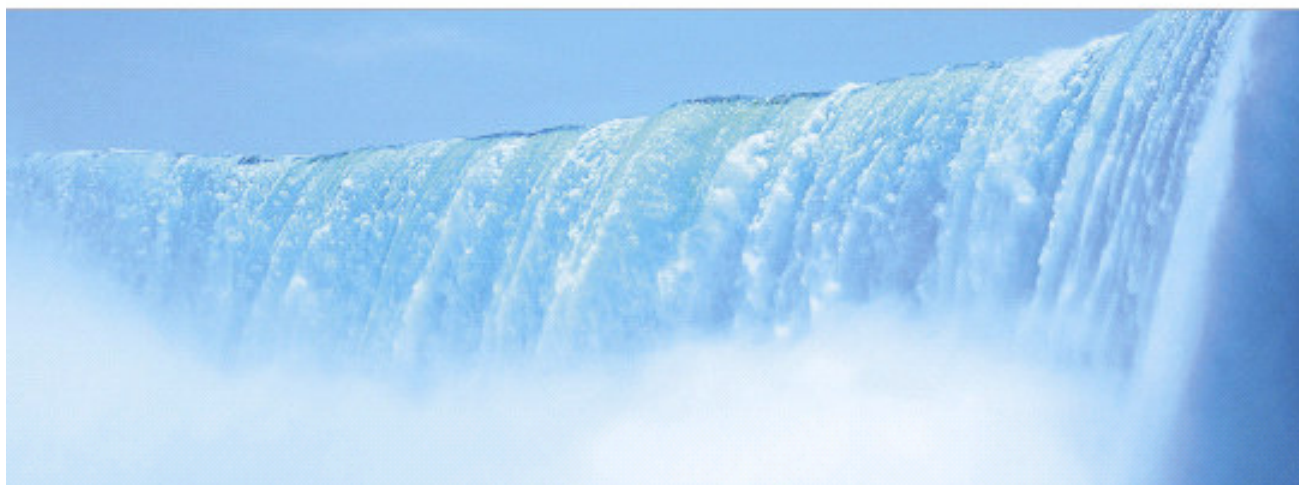




Top Image Systems



Transforming Potential Into Ability

Немного о TIS Top Image Systems

Top Image Systems

- Создана в 1991
- Системы ввода и распознавания данных
- С 1996 на NASDAQ (TISA)
- С 2006 на TASE (TISA)
- 2 приобретения в 2007
- ~250 работников





Филиалы в :

Europe

United Kingdom, Germany,
Italy, Spain, France, Benelux

Asia

Japan, Singapore, Hong Kong, Shanghai,
Guangzhou (R&D) and Australia

USA

North & Latin America

Israel

R&D Headquarters

- Представительства в 40 странах
- Партнёрская сеть по всему миру
- Около 800 установленных по всему миру систем



TIS's Experience in Census Projects



- Turkey Census 1997, 2000
- India Census 2001
- Brazil Census 2000
- South Africa Census 2001
- Ireland Census 2001
- Germany (DP) 1999
- Cyprus Census 2002
- Kenya Census 2001
- Slovak Republic Census 2001
- Hong Kong Census 2001
- Italy Census 2002
- Slovak Republic Census 2006
- South Africa Pilot 2007
- Ireland Census 2006
- Recently Won:
 - Scottish Census 2011
 - Belarus Census 2009

Некоторые из наших клиентов



● Финансы

- American Express
- Deutsche Bank
- Federation of Banks of Brazil
- Garanti Bank
- SEB Bank
- Swiss PostFinance
- Unicre Bank

● Почтовые услуги

- Czech Post
- Deutsche Post
- Slovak Post
- Swiss Post Finance

● Транспорт и логистика

- Jet Airways
- FedEx
- Schneider National
- AIMS Logistics

● Страхование и здравоохранение

- Guardian
- Discovery
- Old Mutual Insurance
- Sanlam Insurance
- Sumitomo Insurance
- BKK Germany

И ещё....



• Гос. проекты

- Australian Department of Defense
- Brazilian Department of Statistics
- Chilean Social Security Office
- US Social Security Administration
- Turkish Ministry of Finance
- Argentinean National Institute of Statistics

• Переписи населения:

- India, Italy, South Africa, Brazil, Ireland ,Kenya,...

• Другие сегменты

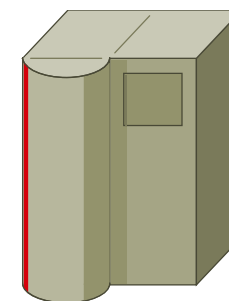
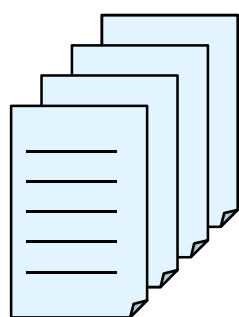
- IBM
- T-Mobile
- BP-British Petroleum
- 3M Europe
- AQA Examination Board U.K
- Comicom Service Bureau
- BCBG Vermont
- BKK



Transforming Potential Into Ability

Платформа eFLOW

Краткое обозрение eFLOW



Бланки

Экспорт



Документы Office



Эл. почта



Web страницы



Файлы PDF



Текстовые файлы



Изображения



Традиционные системы



Подготовка

Сканирование

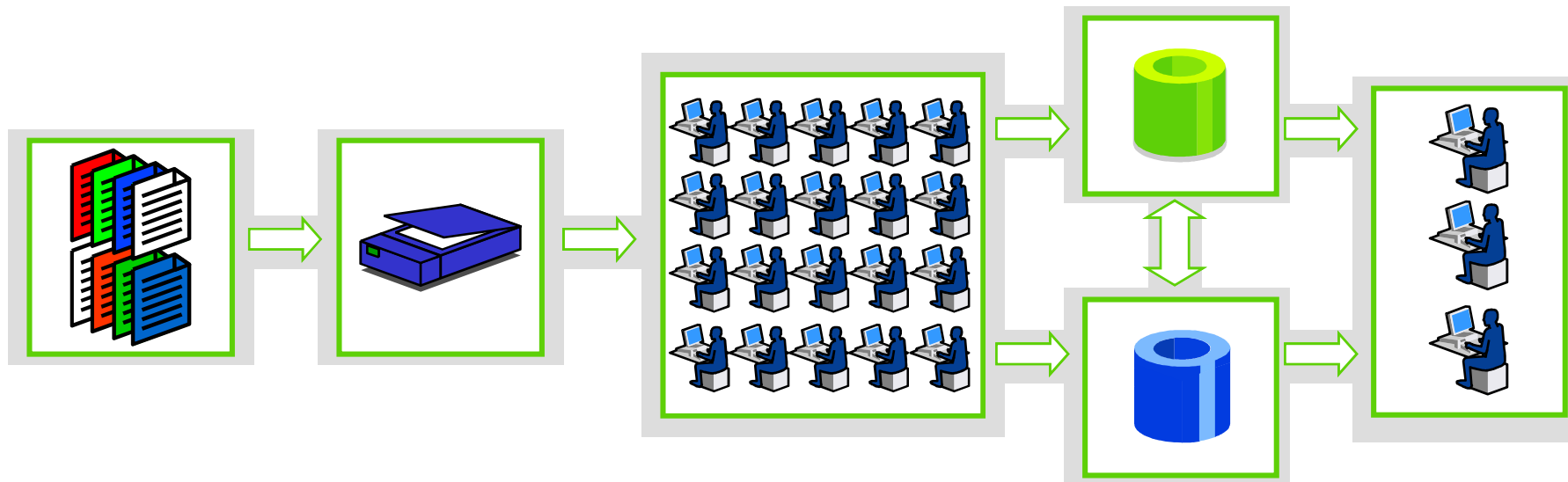
Ввод данных

Back-Office

Пользователи

Сортировка

Ручной ввод



“Умные” системы



Подготовка

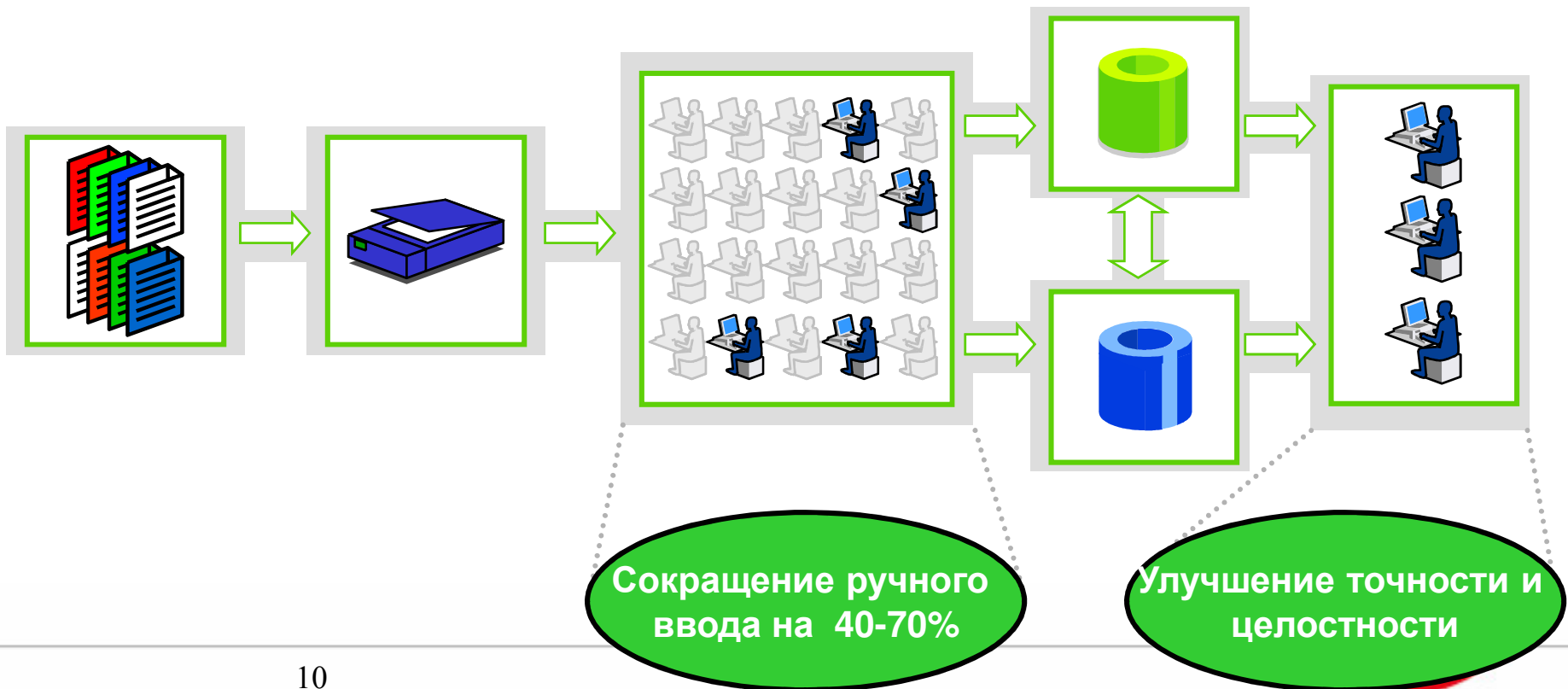
Сканирование

Ввод данных

Back-Office

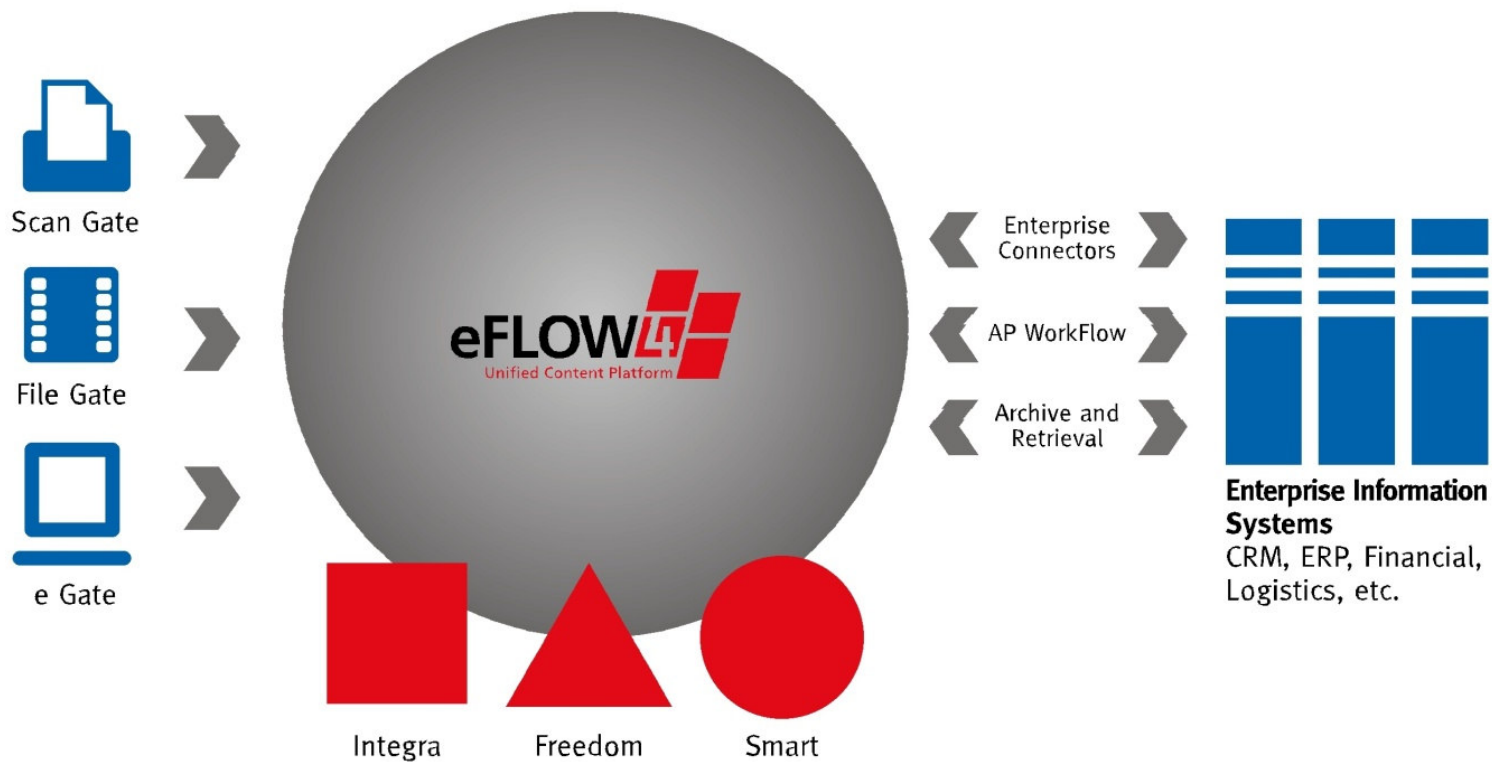
Пользователи

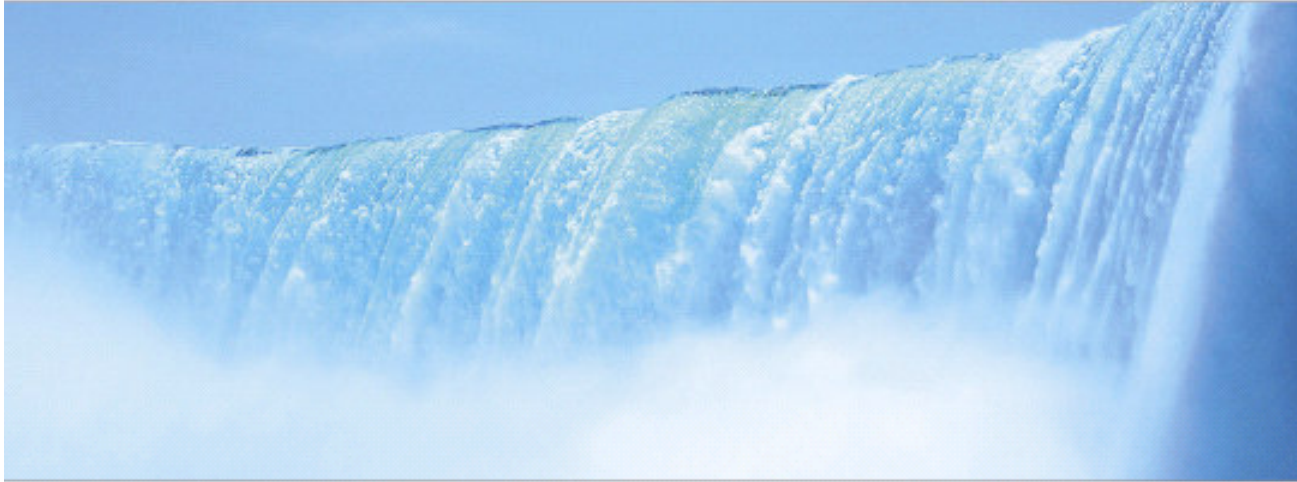
Нет сортировки





Универсальная платформа eFLOW





Transforming Potential Into Ability

Что такое структурированные, частично-
структурированные и неструктурированные
бланки?

Integra

Структурированные бланки



- Фиксированное расположение полей

Дата	№. счёта
Сумма	

Дата	№. счёта
Сумма	

Дата	№. счёта
Сумма	

Структурированные бланки



EASY ORDER FAX FORM Photograph this form and fax to: **1-800-685-5010**

Source Code: 711131000 Customer ID: 4411

Date: 02/07/00

Please complete all information in different from left.

Your Name: _____
Company Name: _____
Ship To Address: _____

IMPORTANT: To ensure next business day delivery, please fax your order by 3:00 pm. To expedite processing of your order, please provide account number or old credit card number.

Phone Number: 760 434 3500 Fax Number: 760 434 3501

METHOD OF PAYMENT

Cash Check Credit Card Bill Me New Bill Bill To: 02/07

CC # 443218 Credit Card Billing Address: _____

SERVICE REQUESTED

Delivery to the address above Addition to an existing order Check here to order our complete office product catalog.

ITEMS TO ORDER: In order to better service your needs and minimize any inconvenience, we will make substitutions for any out-of-stock item with the same or comparable value and quality where available.

Page	Qty	Unit Price	Item #	Quantity	Price	Description
1	1500	02.0	1811	75	8.99	Stacking Letter Tray
2	1514	02.0	4113	14	8.99	Desk Box Calendar
3	1322	02.0	4356	247	11.99	Laser 341000
4	1344	02.0	5669	2	12.99	Maxwell Hi-Capacities
5	153	02.0	6539	7	19.99	Letter Envelopes

RETURNS: Name: _____ Quantity: _____ Original Order #: _____ Reason: _____

Thank You For Your Order!

EASY ORDER FAX FORM Photograph this form and fax to: **1-800-685-5010**

Source Code: 710035000 Customer ID: 4411

Date: 01/08/00

Please complete all information in different from left.

Your Name: _____
Company Name: _____
Ship To Address: _____

IMPORTANT: To ensure next business day delivery, please fax your order by 3:00 pm. To expedite processing of your order, please provide account number or old credit card number.

Phone Number: 760 756 6400 Fax Number: 760 756 8412

METHOD OF PAYMENT

Cash Check Credit Card Bill Me New Bill Bill To: 01/08

CC # _____ Credit Card Billing Address: 850 Los Vallecitos, San Marcos, CA 92069

SERVICE REQUESTED

Delivery to the address above Addition to an existing order Check here to order our complete office product catalog.

ITEMS TO ORDER: In order to better service your needs and minimize any inconvenience, we will make substitutions for any out-of-stock item with the same or comparable value and quality where available.

Page	Qty	Unit Price	Item #	Quantity	Price	Description
1	1404	02.0	1559	283	5.99	2-Drawer Lat. Cabinet
2	1425	02.0	652	420	2.99	Global Chair
3	1463	02.0	657	150	3.99	U-Shape Work Station
4	1152	02.0	424	783	4.99	Marble Wide Calendar
5	181	02.0	680	358	9.99	Via-A-Via Pens
6	1471	02.0	442	970	2.99	3m Overhead Projector
7	1310	02.0	140	723	6.99	Eikon Desk Organizer

RETURNS: Name: _____ Quantity: _____ Original Order #: _____ Reason: _____

Thank You For Your Order!

EASY ORDER FAX FORM Photograph this form and fax to: **1-800-685-5010**

Source Code: 4411 Customer ID: 4411

Date: _____

Please complete all information in different from left.

Your Name: _____
Company Name: _____
Ship To Address: _____

IMPORTANT: To ensure next business day delivery, please fax your order by 3:00 pm. To expedite processing of your order, please provide account number or old credit card number.

Phone Number: 760 756 6400 Fax Number: 760 756 8412

METHOD OF PAYMENT

Cash Check Credit Card Bill Me New Bill Bill To: 02/07

CC # _____ Credit Card Billing Address: 8025 Alvarado Rd, San Diego, CA 92126

SERVICE REQUESTED

Delivery to the address above Addition to an existing order Check here to order our complete office product catalog.

ITEMS TO ORDER: In order to better service your needs and minimize any inconvenience, we will make substitutions for any out-of-stock item with the same or comparable value and quality where available.

Page	Qty	Unit Price	Item #	Quantity	Price	Description
1	1627	02.0	652	220	2.7	HP Copy Paper
2	1120	02.0	657	140	8	Assorted Color Paper
3	49	02.0	546	201	3	10-Envelope
4	73	02.0	181	594	8.3	Topo-Matic Pens
5	144	02.0	104	242	3	Verbatim
6	145	02.0	483	205	7	AcME 8' Scissors

RETURNS: Name: _____ Quantity: _____ Original Order #: _____ Reason: _____

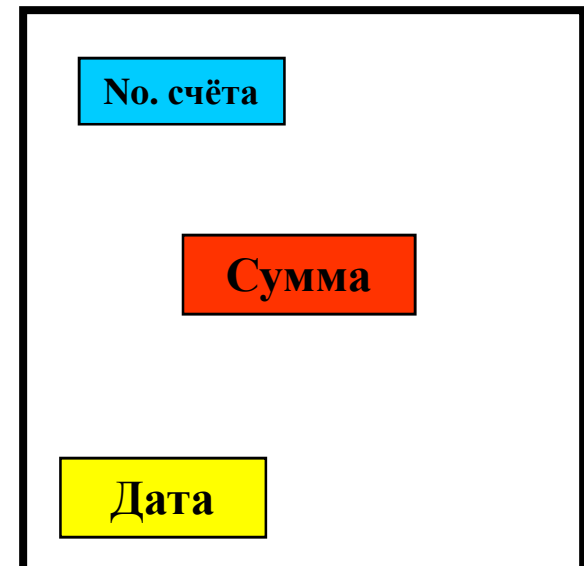
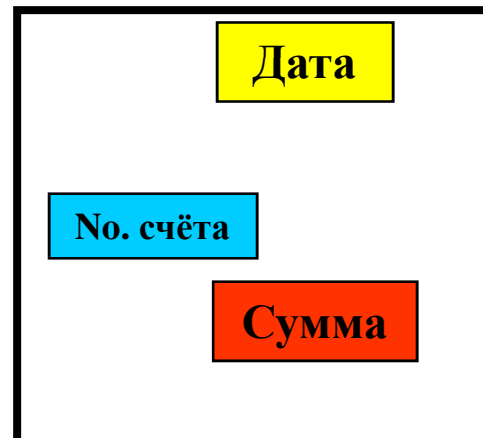
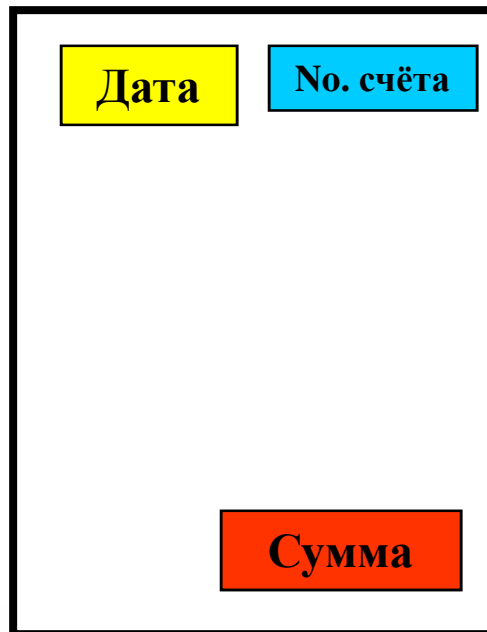
Thank You For Your Order!



Freedom

Частично-структурированные бланки

- Произвольное расположение известных полей
- Пример – Платёжные ведомости



Smart Неструктурированные бланки

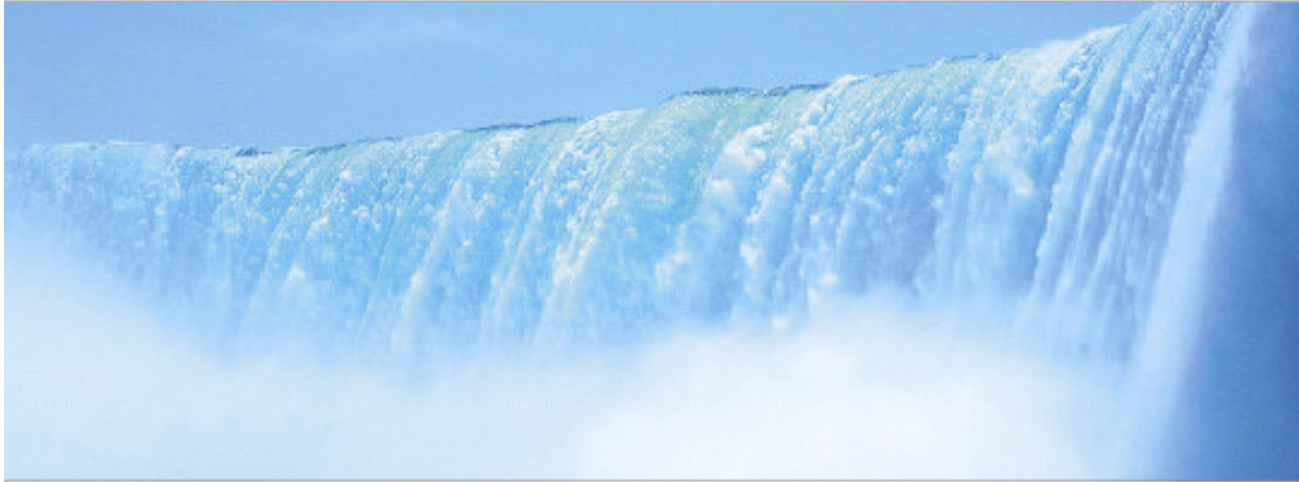


- Произвольный текст
- Письма

*Санкционирование
контракта*

*Просьба о
смене
адреса*

*Заказ на
поставку*



Transforming Potential Into Ability

Каким образом eFLOW “читает” данные?

Типы данных



- **OCR** – Оптическое распознавание символов
(Напечатанный текст и штрих-коды)
- **ICR** – Intelligent Character Recognition
(Прописной текст)
- **OMR** – Оптическое распознавание меток
(Метки)

Типы данных



OCR

HERR
MAX MUSTERMANN
MUSTERSTR. 123
12345 MUSTERORT

Füllen Sie bitte die Anmeldung in Druckbuchstaben aus und kreuzen Sie dick umrandete Felder an. Anschließend einfach in den Rückumschlag stecken und ab geht die Post.

A B C X



www.payback.de

Hier können Sie sich auch online für *PAYBACK anmelden und jederzeit Ihren aktuellen Kontostand erfahren.



ICR

Bitte unbedingt ausfüllen!

Nummer zur Kontaktaufnahme

0 1 2 3 4 5 6 7 8 9

Postleitzahl

0 9 - 1 2 - 2 0 0 1

J O H A N N @ H O T M A I L . C O M

Telefonisch Sie ich um weitere zu erreichen unter?

Falls vorhanden, bitte Mobilfunknummer angeben!

Gibt es weitere Unternehmen, bei denen Sie Punkte sammeln möchten? Auf der Rückseite können Sie sie uns nennen.

OMR

Freiwillige Angaben

Kontostand

Single

Paar

Verheiratet

Автоматическое распознавание



A B C D E F
1 2 3 4 5 6 7



***=Нераспознанный
СИМВОЛ**

A * C * E F
1 2 3 4 5 * 7

Технологии распознавания OCR/ICR “движки”



LIGATURE

RICOH
(Japanese)

PENPOWER
(Chinese)

OCE

ABBYY

KADMOS

JUSTICR

INLITE

EXPERVISION

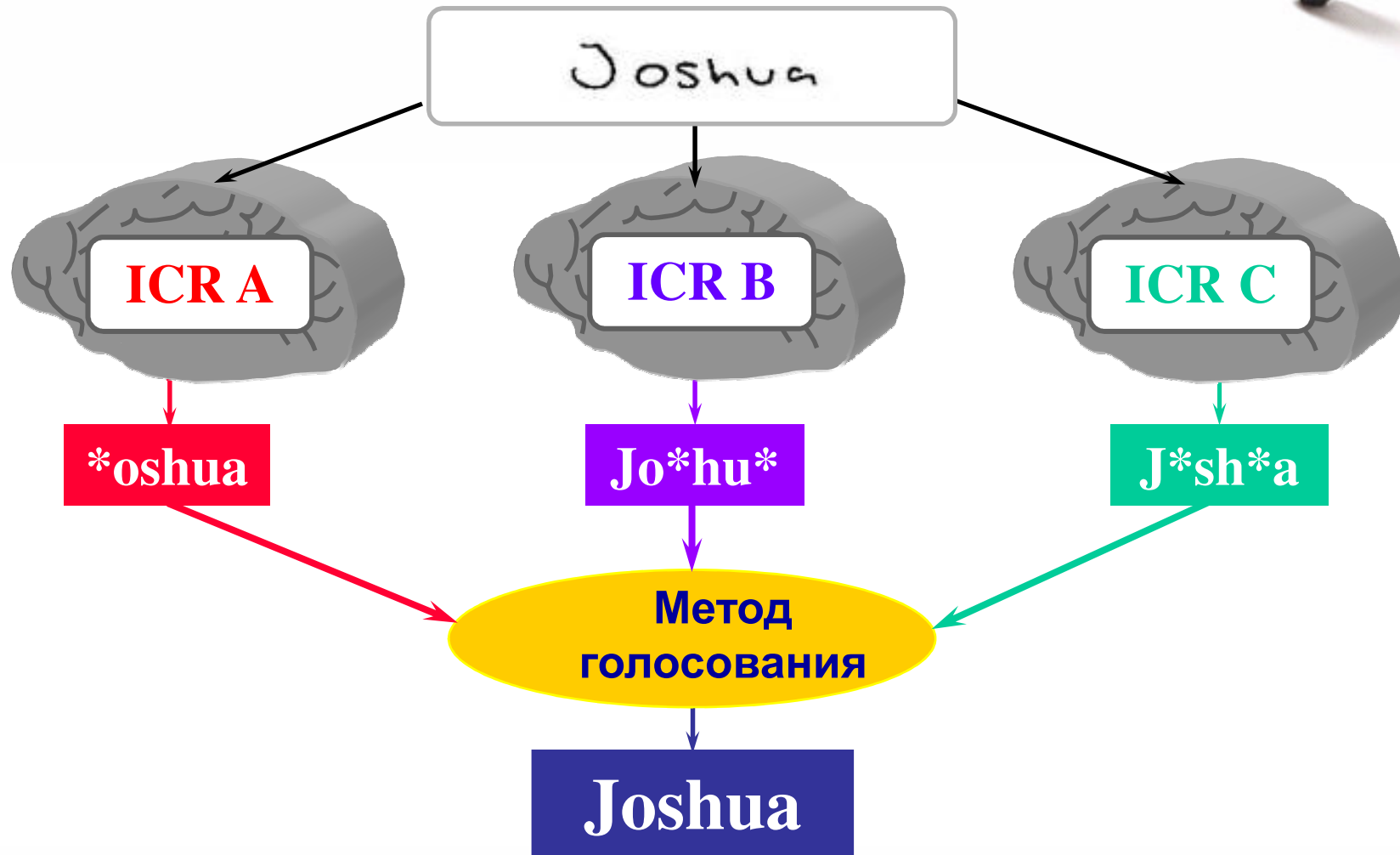
OMNIPAGE

A2IA

TIS

NESTOR

Виртуальные “движки”



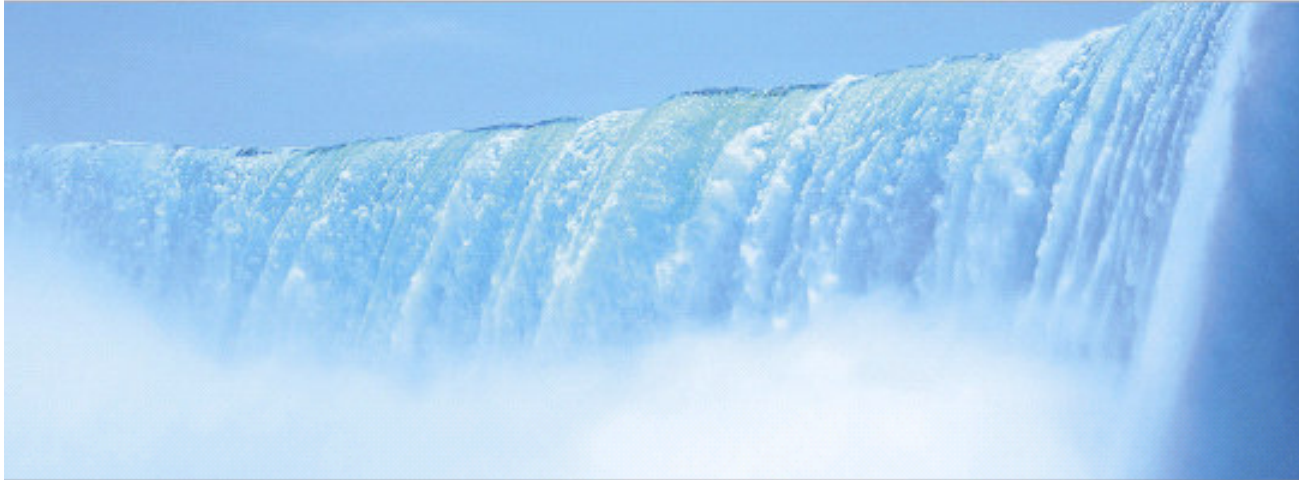


Методы голосования

- Виртуальный “движок” с 4 физическими “движками”
- Искомое значение : 253478

- Safe: 2****8
- Normal: 25**78
- Majority: 253478
- Order: 255378
- Equalizer: ???????

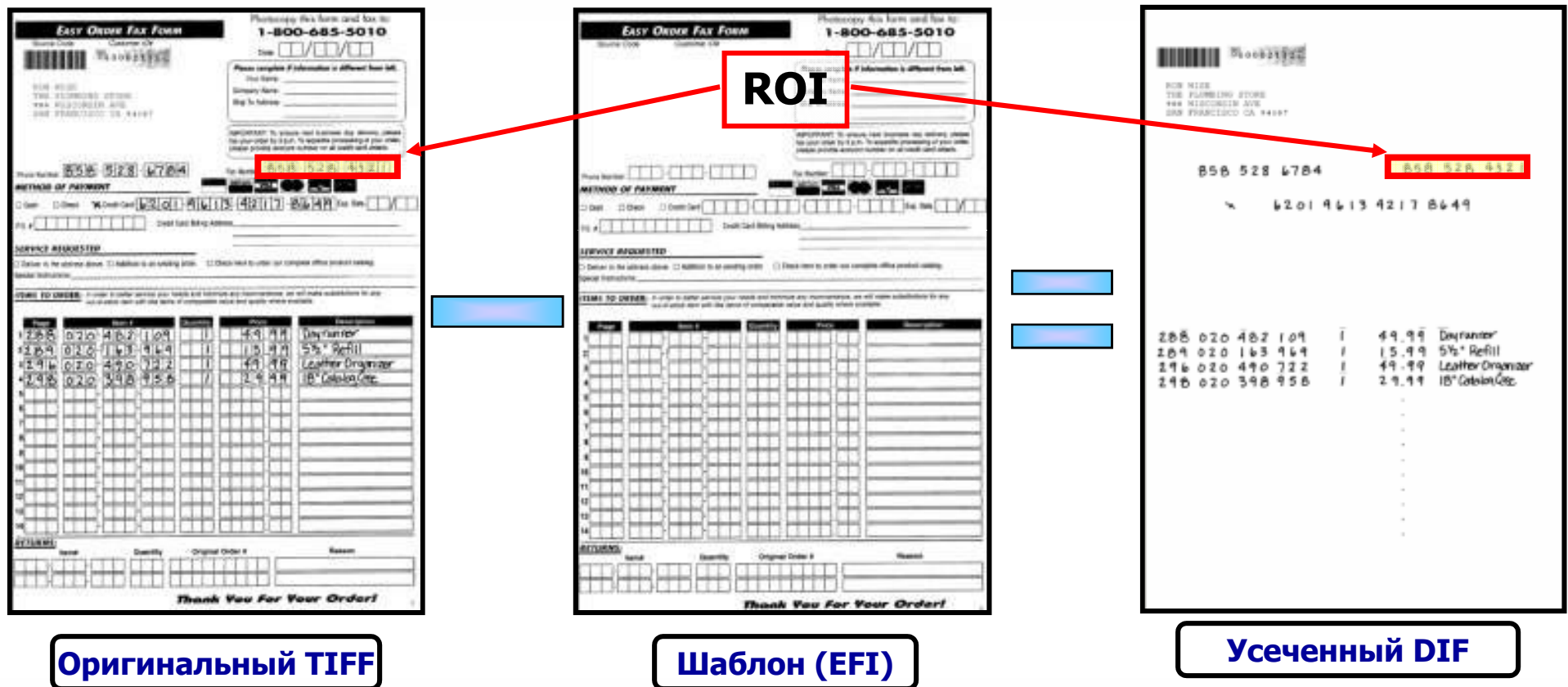
<i>Engine</i>	<i>Result</i>
1	25***8
2	2*5378
3	253478
4	2*34*8

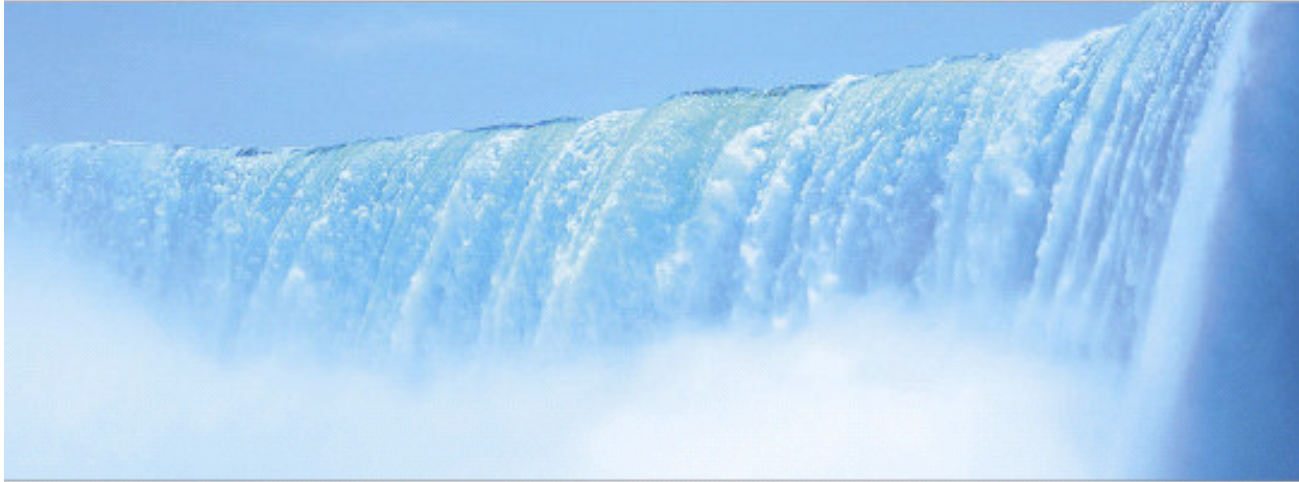


Transforming Potential Into Ability

Integra – eFLOW для структурированных бланков

От TIFF к DIF





Transforming Potential Into Ability

Freedom – eFLOW для частично- структурированных бланков

“Умное” распознавание документов



6.55
9.10
9.80
0.61
36.40
22.24
29.21
2.78
2.56

W. Shirley & Sons Ltd. ESTABLISHED 1880
17 Montague Road Telephone: 0208-698 8241
Croydon CR9 3DU Facsimile: 0208-698 8908

CITROËN

Customer alt. no. 020019 Reference 0200
Customer name Mr J Richardson Make/Model CITROËN Vehicle No. 11719
Address 8 Balsa Drive Reg. No. 20000 Plateage
West Wickham Purch. date 08/04/00 Reg. date 20
Post Bk 486 Chassis no. 9003

Invoice no. 57 1082 J/C Date/Time 08/04/00

LABOUR
0 CHECKED OIL 40,000 MILE SERVICE 15.00
0 REPLACED FRONT BRAKE PADS ON MON. 25.00
0 REPLACED REAR BRAKE PADS ON MON. 25.00
0 CHECK NEW CENTER HUB 15.00
0 INSPECT DISK REPAIRS NEW CENTER RE-TESTED ALL OK. 15.00

TAXES/CHAS. 500 SUB-TOTAL 294.00

PARTS AND MATERIALS
0 OIL FILTER 6.55
0 OIL 3.10
0 SWIRL BEHAVIOUR 9.80
0 SWIRL FILTER BRACK 2.56
0 SWIRL FILTER 2.78
0 SWIRL BEARINGS 2.56
0 SWIRL INTERNAL CLEANER 2.78
0 WASTE 2.56
SUB-TOTAL 119.00

LIBRARIANS
0 ENIGNE OIL 4.80
SUB-TOTAL 15.00

TOTAL 80000 378.00
TOTAL VAT 66.00
TOTAL INVOICE 445.00

Invoice

21007250

- Слово “invoice” в 3 местах
– Вероятно это платёжная ведомость
- Число “21007250” рядом с “Invoice No.”
– Вероятно это номер платёжная ведомости

Нет одинаковых счётных ведомостей от различных поставщиков



Metrex (800) 243-1111
 Delivery... with Care

Ship To: OWENS & MINOR DENVER 53
 11440 E 56TH AVE
 DENVER CO 80239

Bill To: OWENS & MINOR DENVER 53
 PO BOX 85007
 RICHMOND VA 23261-5007

Invoice

Invoice Number: 22089	Invoice X-Ref:	IN U.S. REMIT TO METREX RESEARCH CO P.O. BOX 37080 PITTSBURGH, PA 15251-7080
Date: 29-SEP-00	Order No.: 3004052	
P.O. Number: 04284	Order Date: 29-SEP-00	
Customer Number: 150001	Pick Slip No.: 893950	
Location Ref: RICHMOND, VA	Pick Slip Date: 29-SEP-00	

TERMS	PAYMENT DUE	SALESPERSON	CUS
1/10 30 NET	29-OCT-00	WATLING, KRISTIN - 3034 3034	
SHIP DATE	SHIP VIA	SHIPPING REFERENCE	
29-SEP-00	Arkansas Best Freight	220893142	

CATALOG NUMBER	DESCRIPTION	QTY. ORD.	QTY. SHIPPED	UOM
10-1000	METRIXIPES 100 CT.	6	6	CS
10-1400	14 DAY METRICIDE GALLONS 4/CS	12	12	CS
10-2000	20 DAY METRICIDE GALLONS	4	4	CS
10-3000	METRIKTEST 1.5 50 PCK. x 2	6	6	CS
10-4000	METRIZYME GALLONS	2	2	CS
10-4010	METRIZYME HALF GALLON	4	4	CS
12-1000	CAVICIDE GALLONS C04-120	2	2	CS
13-1000	CAVICIDE 24 OUNCE C12-024	13	13	CS

Energizer
 Eveready Battery Company, Inc.

ORIGINAL INVOICE Page 1 of 1

BILL TO #01141837
 OWENS & MINOR INC
 OWENS & MINOR #0093
 945 MUIRFIELD DR
 HANOVER PARK IL 60103

SHIP TO #01141837
 0093
 OWENS & MINOR #0093
 945 MUIRFIELD DR
 HANOVER PARK IL 60103

THANK YOU FOR YOUR BUSINESS!

QTY	UNIT PRICE	TOTAL PRICE	NET UNIT PRICE	NET PRICE
40	\$5.9900 EACH	\$191.52	\$3.9900	\$191.52

DISCOUNT
 If Payment Received by 12/06/2000
 Take Cash Discount \$1.52

TOTALS
 Due Date 12/07/2000
 Terms 1% 30 NET 31
 Net Invoice Amount \$191.52

DISCOUNT INVOICE AMOUNT \$189.60

PAY THIS AMOUNT \$191.52

Dun's # 180537714
 UPC Manufacturing ID 439800

Make checks payable to
EVEREADY BATTERY CO., INC.
 P.O. BOX 751162
 CHARLOTTE, NC 28275-1162

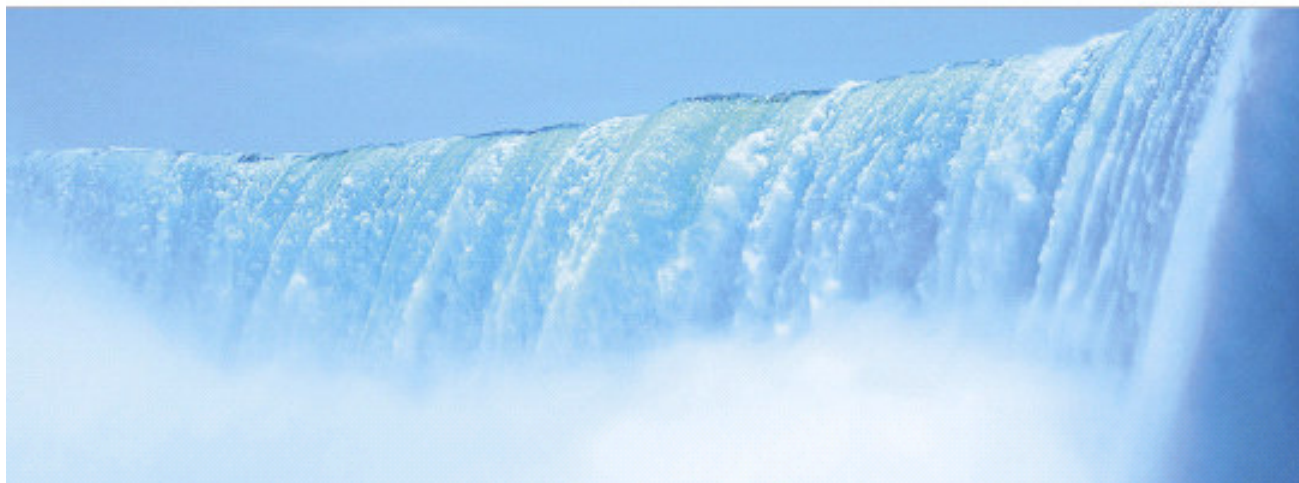
Алгоритмы



- Freedom ищет информацию по:
 - Ключевым словам: “total”, “total due”, “payment”
 - Маскам полей: @@/@@/@@@@
 - Логическим правилам: Subtotal + VAT = Total
 - Топографии: т.е. поле A расположено над полем B
 - Обучению: Поле X было найдено в области Y



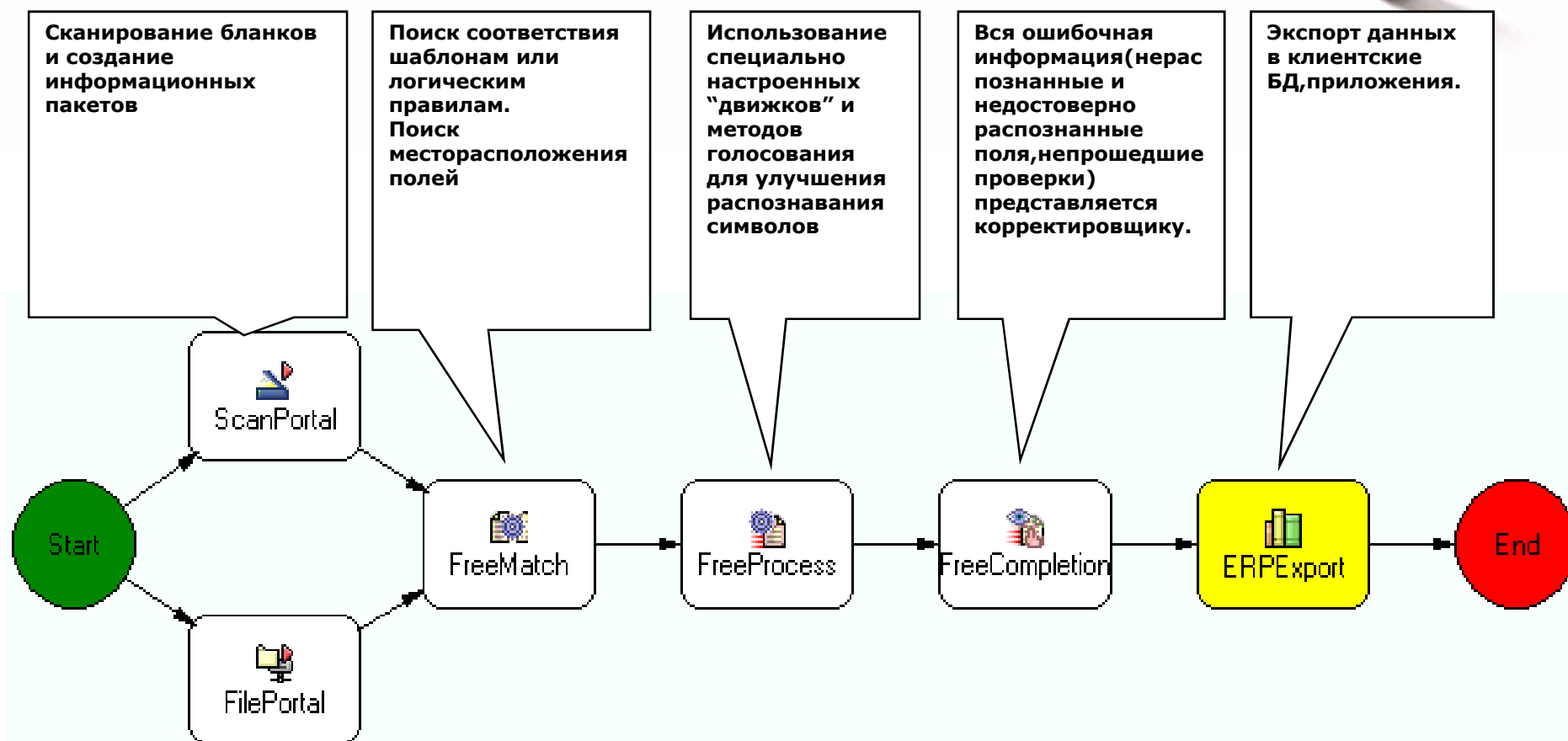
Top Image Systems



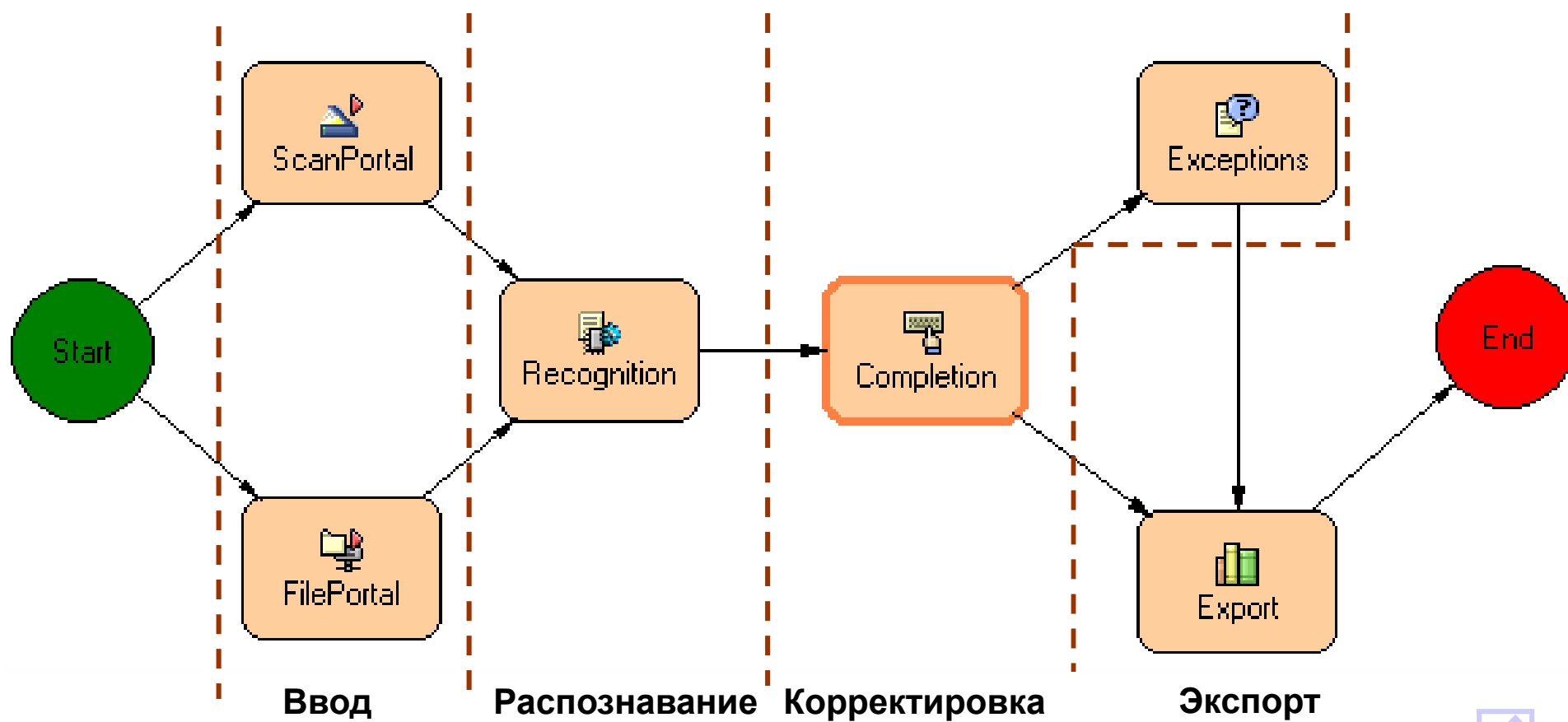
Transforming Potential Into Ability

eFLOW станции

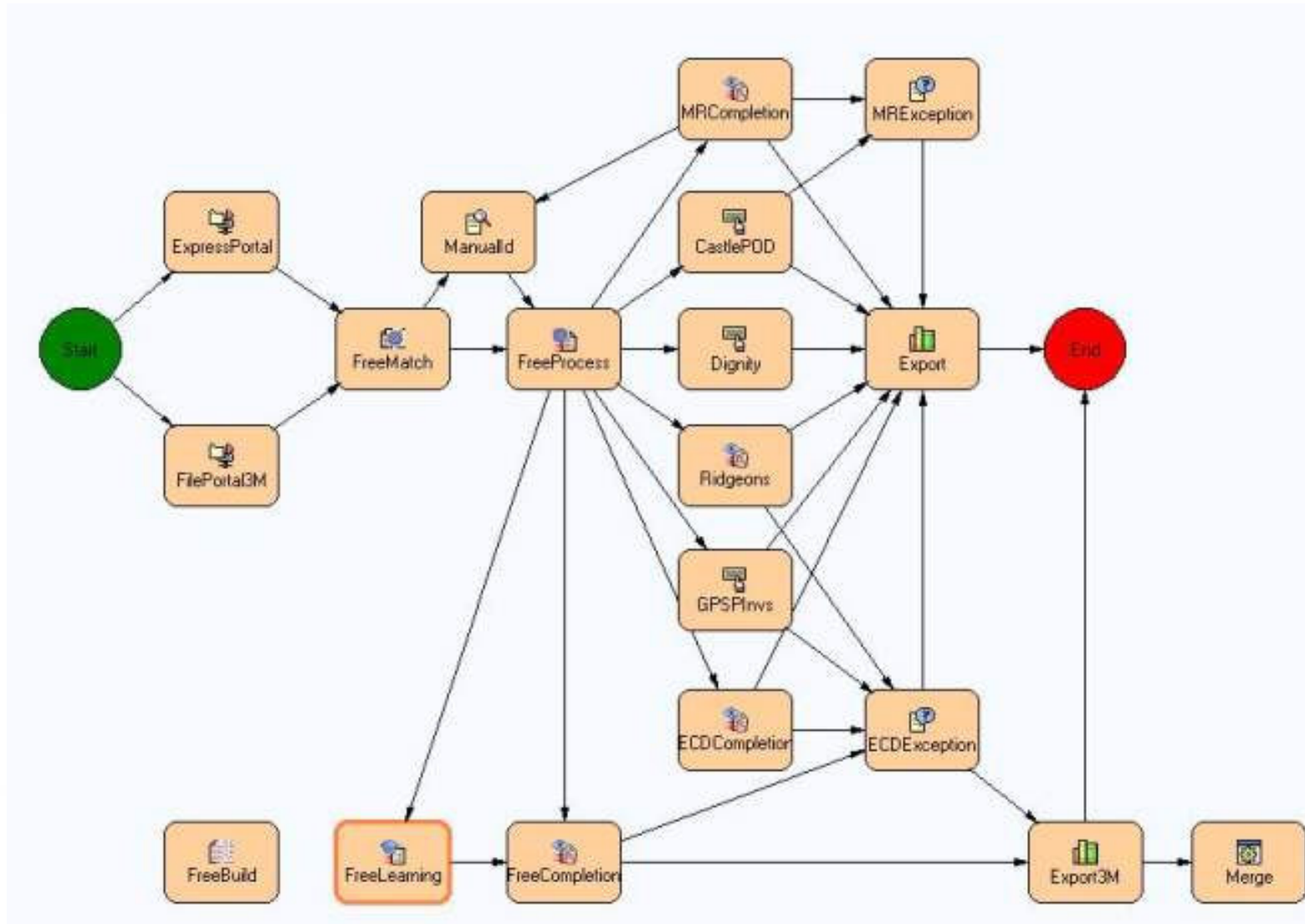
Базовый процесс eFLOW



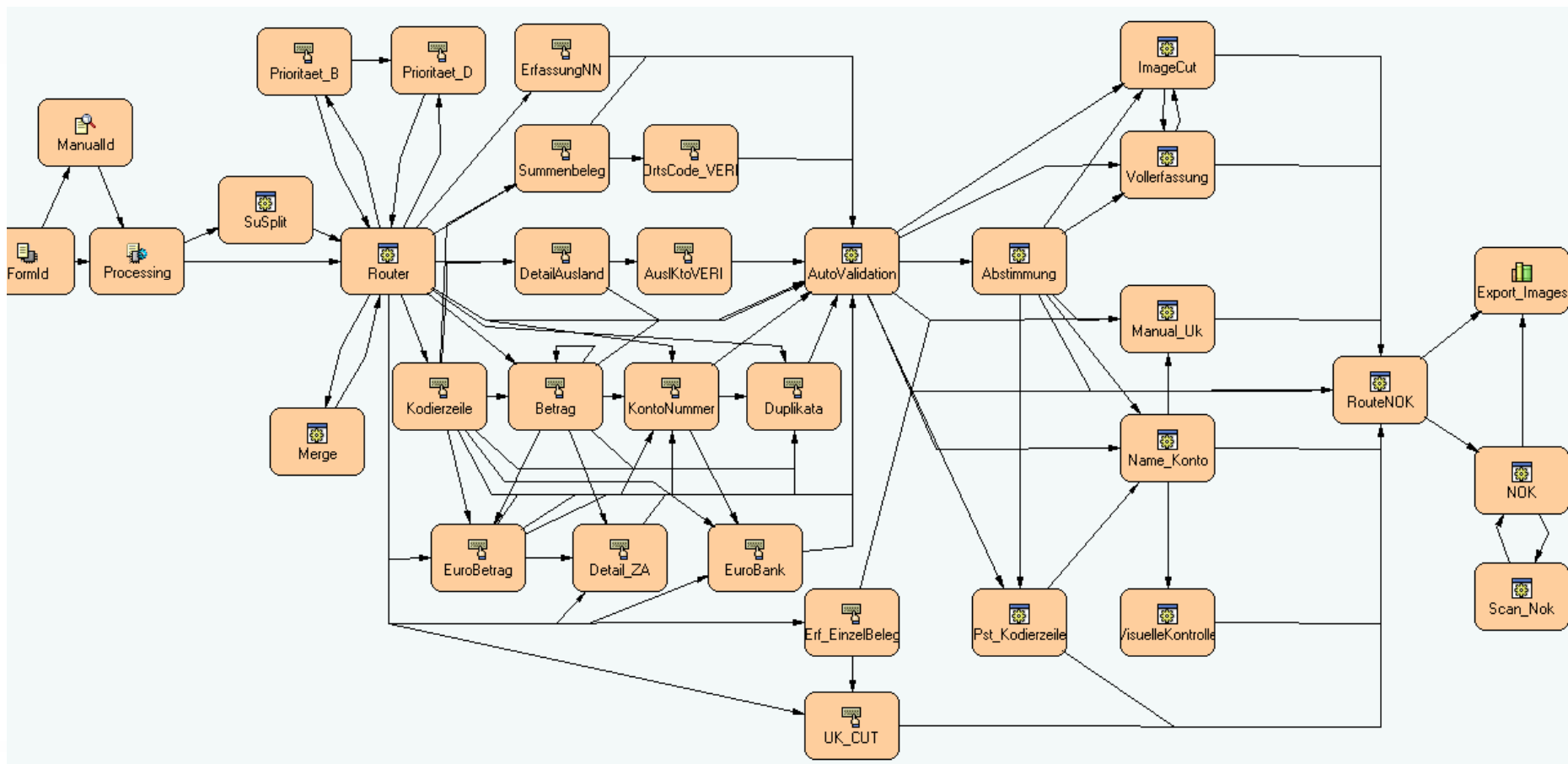
Централизованный запуск станций



Сложный технологический процесс



Сложный технологический процесс



Станция корректировки данных



Integra - Completion (RomaniaPost) - 10000097

File Tools View Options Help

Get Save Discard Exceptions Zoom Skip Pin Image

Destinatar: BERSH TANYA Telefon: 88870

Strada: CALLE VICTORY Nr.: 29 Blocul: Scara: Etaj:

Localitatea BUCHAREST sector judet 23

Oficiul de destinație:

Expedito: IRENA KELMAN

Strada: BLVD. MARASESTI Nr.: 70 Blocul: Scara: Etaj:

MrField	DataField	NameField	TelefonField
		BEASH TANYA	8887011
Street	StreetNo	countryField	SectorField
CALLE VICTORY	29	BUCHAREST	23
ExpName	ExpStreet	ExpPhone	ExpCountry
IRENA KELMAN	BLVDI MAHASESTI		BUCHAAEST
ExpSector	ExpOnLineField	ExpViaPostl	
4			

TIS

Form: FP0001 Page: 1 / 6 ALL Insert 17:28:58

Станция посимвольной корректировки



Integra - Tile (Lab1) - 00000002

File View Options Help

Get Put Save Discard View Edit Prior Page Character Page 7 6 Next Page

7	7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7		

Character "7" unchanged Page 8 / 10 14:45:08

Start | Inbox | Mobili... | Top Im... | Integr... | Integr... | Integr... | Tile_5... | EN | 14:45

Контроллер



eFlow Controller

File Collection View Options Help

Application: SimpleSpMerge... Flow: <All Flows>

```
graph LR; Start((Start)) --> ScanPortal[ScanPortal]; Start --> FilePortal[FilePortal]; ScanPortal --> Recognition[Recognition]; FilePortal --> Recognition; Recognition --> HighTotal[HighTotal]; Recognition --> LowTotal[LowTotal]; HighTotal --> Exceptions[Exceptions]; HighTotal --> Export[Export]; LowTotal --> Exceptions; LowTotal --> Export; Exceptions --> End((End)); Export --> End
```

Workload

Collections

Stations

Viewer





Collections Stations

Collection	Flow	Status	Time in System	TotalAm...	AnyBadPagesOrForms	BarcodeMissing	BatchName	Cre
00000016#6	OfficeS...	AVAILABLE	98:11:15	50			00000016	29G
00000016#5	OfficeS...	AVAILABLE	98:11:15	50	TotalAmount		00000016	29G
00000001#2	OfficeS...	AVAILABLE	98:12:49	100			00000001	29G
00000001#1	OfficeS...	AVAILABLE	98:12:49	100			00000001	29G
00000001#7	OfficeS...	AVAILABLE	98:12:49	100			00000001	29G
00000001#3	OfficeS...	AVAILABLE	98:12:49	100			00000001	29G
00000001#6	OfficeS...	AVAILABLE	98:12:49	100			00000001	29G
00000001#4	OfficeS...	AVAILABLE	98:12:49	100			00000001	29G
00000002#4	OfficeS...	AVAILABLE	98:12:33	100			00000002	29G
00000002#5	OfficeS...	AVAILABLE	98:12:33	100			00000002	29G
00000002#6	OfficeS...	AVAILABLE	98:12:33	100			00000002	29G
00000002#1	OfficeS...	AVAILABLE	98:12:33	100			00000002	29G

112 batches 112 forms 8:40 PM

Контроллер



User	Station	Position	Flow	Batch	Progress	Rate	
 Dina	Data Entry	Comp1	Flow2	82123 #	85%	37	<div style="width: 85%; background-color: #f4a460;"></div>
 Rina	Data Entry	Comp23	Flow1	91167	12%	42	<div style="width: 12%; background-color: #f4a460;"></div>
 Mina	Data Entry	Comp11	Flow1	12345 #	44%	12	<div style="width: 44%; background-color: #f4a460; border-left: 2px solid red;"></div>
 Zina	Manual ID	Comp44	Flow2	66775	99%	48	<div style="width: 99%; background-color: #f4a460;"></div>

Visual Designer (разработка приложения)



eFLOW Visual Designer

File Edit Selected View Tools Options Help

PO00003A

FIELD : MrField

Properties Events

General	
Name	MrField
Description	MrField
Caption	MrField
Label	MrField
Type	Integer
Mode	Standard
AutoTab	<input type="checkbox"/>
Max. Lines	1

Validation	
Double Typing	<input type="checkbox"/>
ReadOnly	<input type="checkbox"/>
Edit Mask	(None)
Display Rule	When unrecognized
Value required	<input type="checkbox"/>

Lookup table	
Lookup Table	(None)
Lookup Item	(None)
Quick Lookup	(None)
Show Listbox	(None)
Automatic Fill	(None)
Force Validation	<input checked="" type="checkbox"/>

Tile	
Supported	<input checked="" type="checkbox"/>
Character Filter	
Max. Char Confi	100

Bad Chars Lev	
For Display	0
For Process	0

ROMANIA MANDAT ON-LINE (UL. TPOPAPIA 10)

Numar de inregistrare: [input type="text"]

Adresa de domiciliu: [input type="text"]

Activitati in [input type="text"]

Destinatari: [input type="text"] Telefon: [input type="text"]

Strada: [input type="text"] Nr.: [input type="text"] Blocul: [input type="text"] Scara: [input type="text"] Etaj: [input type="text"]

Localitatea: [input type="text"] Judet: [input type="text"]

Citizenship of destination: [input type="text"]

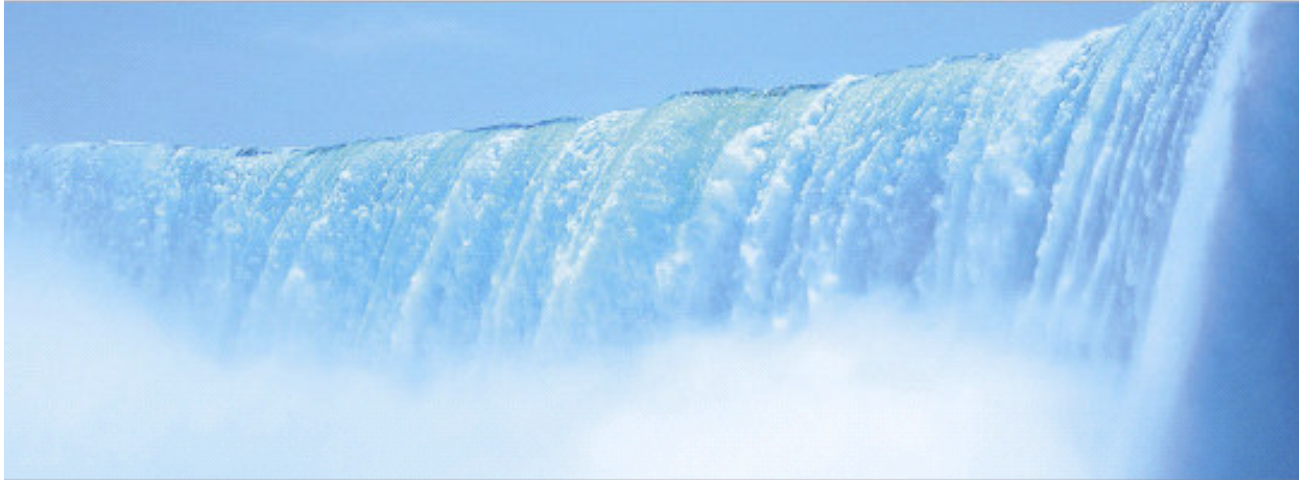
Expeditor: [input type="text"]

Strada: [input type="text"] Nr.: [input type="text"] Blocul: [input type="text"] Scara: [input type="text"] Etaj: [input type="text"]

Telefon: [input type="text"] Localitatea: [input type="text"] Sector / judet: [input type="text"]

MAPONERE IN CAZ DE NEACHTARE: on-line personal (pe baza raspunsului primit asupra cererii)

Formularele corespunzatoare:



Transforming Potential Into Ability

Расширение стандартной платформы eFLOW



Расширение eFlow

Всё может быть изменено:

- Расположение полей на дисплее станции “Корректировка”
- Витуральные “движки”
- Технологический процесс
- Бизнес–правила и логические проверки
- Экспортируемые данные
- Поведение станций
- И всё остальное...

Изменение экспортных данных



```

<?xml version="1.0" ?>
- <TisDynamicDatabase>
- <Collection>
  - <TIS_000000F3>
    - <Properties>
      <BatchName>000000F3</BatchName>
      <CreationDate>20040516</CreationDate>
      <CreationTime>58953</CreationTime>
      <FlowType>OfficeStore</FlowType>
      <FormsInBatch>7</FormsInBatch>
      <PagesInBatch>7</PagesInBatch>
      <CollectionSource>0</CollectionSource>
      <ExportPassCount>1</ExportPassCount>
      <MTFFile>16052004162613.MTF</MTFFile>
    </Properties>
    - <Form>
      - <FP0001>
        - <Properties>
          <FormType>EasyOrderFax</FormType>
        </Properties>
      - <Page>
        - <P0001>
          - <Properties>
            <IdentificationMethod>10</IdentificationMethod>
            <IsAttachment>0</IsAttachment>
            <MatchCode>98</MatchCode>
            <PageId>DEMO</PageId>
          </Properties>
        - <Field>

```

XML

CreditExpDate	CreditNum	
0101	296743672191684	◀
1101	794268432167172	
1101	8585286784	
		*

SQL

```

760,4388867,760,4382929
760,6343570,760,6343571
760,7368200,760,5273711
760,7368400,760,7638412
858,5286784,858,5284321
858,5669228,858,5661793

```

CSV

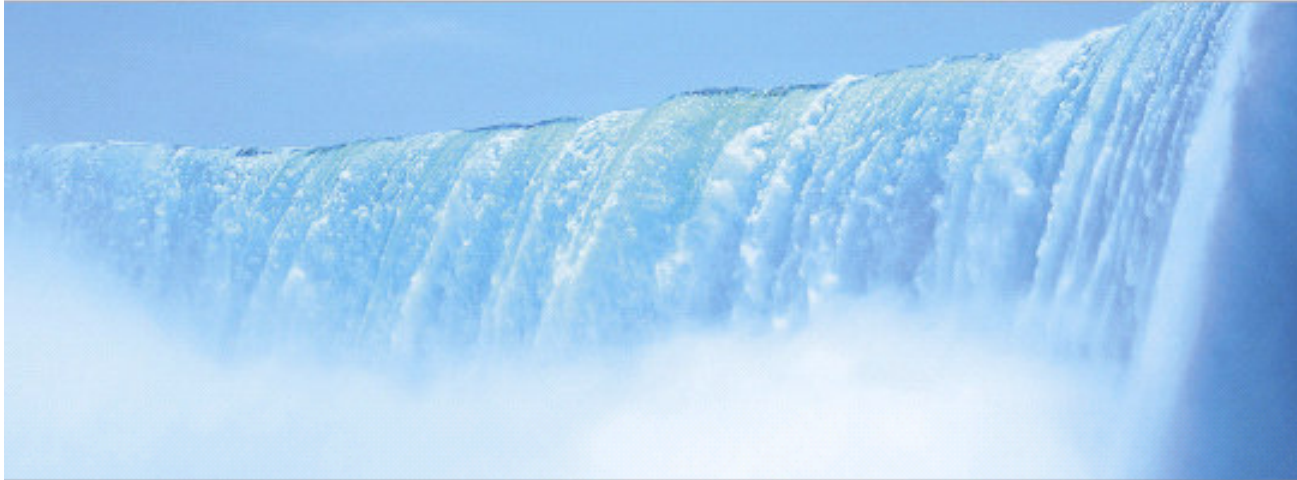
Data for flow: OfficeStore batch: 000000F3

20000207	2967436721916842	01/01	760	634-3571 OFFICE SUPPLY BUYERVIKING SHEET METAL7590 CARROL CANYON RDSAN DIEGO CA 92121	Credit	760	6343570
20000108	7942684321671725	11/01	760	763-8412 JOE MORGAN COUNTRY FURNITURE850 LOS VALLECITOS SAN MARCOS CA 92069	Credit	760	7368400
	6201961342178649	858	528	4321 RAIL WISETHY FURNISHING STORES WISCONSIN WISCONSIN SAN FRANCISCO CA 94107	Credit	858	5286784
20000108	7942684321671725	11/01	760	763-8412 JOE MORGAN COUNTRY FURNITURE850 LOS VALLECITOS SAN MARCOS CA 92069	Credit	760	7368400
20000116	4693216784211596	11/02	858	5286784 OFFICE SUPPLY BUYERVIKING SHEET METAL7590 CARROL CANYON RDSAN DIEGO CA 92121	Credit	760	4388867
	7897686329071723	09/00	760	527-5711 OFFICE SUPPLY BUYERVIKING SHEET METAL7590 CARROL CANYON RDSAN DIEGO CA 92121	Credit	760	7368200
	6398426189001793	09/01	858	5669228 OFFICE SUPPLY BUYERVIKING SHEET METAL7590 CARROL CANYON RDSAN DIEGO CA 92121	Credit	858	5669228

Tab Delimited



Top Image Systems



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Спасибо