



 **inventivedesigners**
making communication easy

XSL in Print

Practitioner's View

Speaker



- Klaas Bals
 - CTO of Inventive Designers
 - Member of W3C XSL Working Group and W3C Advisory Committee
 - Former member of XForms Working Group
 - Development using XML and XSL for over 6 years
 - Co-author of Linux on iSeries IBM Redpiece and IBM Redbook
 - Can be contacted at Klaas.Bals@inventivedesigners.com

Inventive Designers



- Design, development and sale of own unique software based on open standards
 - More than 40,000 end users worldwide
- Winner of:
 - SpringBOK 2003: most creative growing enterprise
 - Trends Gazellen 2003: one of the fastest growing enterprises
 - Best Performer 'Lion of the Export' Small Companies 2003
 - Best Performer 'Lion of the Export' Medium Companies 2005
 - European Seal of Excellence 2005 awarded at CeBIT
 - Honorable mention 'Innovator of the Year' (XPIor 2006)
 - Winner of AIIM Best Practice Award 2006 for Banking & Finance

Industry Associations



- W3C
 - World Wide Web Consortium
 - Active member of XForms and XSL Working Group



- AIIM
 - Association for Information and Image Management



- Xplor
 - Active member of the association for suppliers and users of the output industry



Printing



- 'Print' Symposium
- For me, a 'Print' Solution is
 - Visualization of Paginated Documents
 - Fax
 - Email
 - Web
 - Electronic Output
 - Interactive Forms
 - ...
- Document
 - Not only paper
- Majority of output in companies is still printed
 - Changing to multi-channel
 - Still need to be able to print, consumers still want paper
 - Consumers can print on their own printers

Different Types of Documents



- Business-type documents
 - Transactional documents
 - Reports, invoices, purchase orders, forms, labels, marketing material, product catalogs, etc.
 - Layout decides where data elements appear
- Book-type documents
 - Books, technical documentation, reference manuals, etc.
 - Data decides where layout elements appear
- Marketing-type documents
 - Layout-driven documents
 - Highly graphical
 - Mostly not bound to data (today)

Business-type documents



- Required features:
 - Address
 - Header with company logo
 - Footer with payment instructions, company address
 - Body with table, running totals
 - Multiple input documents
 - Absolute positioning
 - ...
- XSL can do this extremely well
- Businesses need these documents in operations

Book-type documents



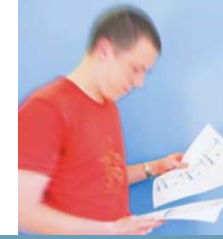
- Required features:
 - Title page
 - Sections
 - Subsections
 - Table of contents
 - Page numbering with different styles
 - 1, 2, 3, ... I, II, III, ... i, ii, iii, ... 1-1, 1-2, 1-3, ..., I-1, I-2, ...
 - Back of the book index
 - ...
- XSL can do this extremely well
- Needed for manuals, books, documentation, aircraft manuals, technical specifications, ...

Marketing-type documents



- Required features:
 - Text cut-out images
 - Multiple flows
 - Rounded Corners
 - Complex shapes
 - Complex page layouts
 - Intruding regions with precedence
 - ...
- Only partially covered by XSL
 - Dynamic marketing-type documents
 - In industry still a challenge
 - Still mainly manual task without high variability
 - XSL 2.0?
 - Tighter cooperation with SVG?

Sample documents



United States Postal Service Sorry We Missed You! We ReDeliver for You		Today's Date	Sender's Name
Item is at: __ Post Office (See back)	Available for Pick-up After Date: _____ Time: _____	We will redeliver or you or your agent can pick up. See reverse.	
<input type="checkbox"/> Letter <input type="checkbox"/> Large envelope, magazine, catalog, etc. <input type="checkbox"/> Parcel <input type="checkbox"/> Restricted Delivery <input type="checkbox"/> Perishable Item <input type="checkbox"/> Other: _____	For Delivery: (Enter total number of items delivered by service type) For Notice Left: (Check applicable item) <input type="checkbox"/> Express Mail (We will attempt to deliver on the next delivery day unless you instruct the post office to hold it.) <input type="checkbox"/> Certified <input type="checkbox"/> Recorded Delivery <input type="checkbox"/> Firm Bill	<input type="checkbox"/> Registered Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Signature Confirmation	<input type="checkbox"/> If checked, you or your agent must be present at time of delivery to sign for item Article Number(s) _____ _____ _____ _____ <div style="background-color: #004a99; color: white; text-align: center; padding: 2px;">Notice Left Section</div> Customer Name and Address _____ _____
Article Requiring Payment Amount Due <input type="checkbox"/> Postage Due <input type="checkbox"/> COD <input type="checkbox"/> Customs \$ _____		Delivered By and Date	
<input type="checkbox"/> Final Notice: Article will be returned to sender on _____			

PS Form 3849, November 1999

Delivery Notice/Reminder/Receipt

United States Postal Service Sorry We Missed You! We ReDeliver for You		Today's Date	Sender's Name
Item is at: __ Post Office (See back)	Available for Pick-up After Date: _____ Time: _____	We will redeliver or you or your agent can pick up. See reverse.	
<input type="checkbox"/> Letter <input type="checkbox"/> Large envelope, magazine, catalog, etc. <input type="checkbox"/> Parcel <input type="checkbox"/> Delivery <input type="checkbox"/> Item <input type="checkbox"/> Other: _____	For Delivery: (Enter total number of items delivered by service type) For Notice Left: (Check applicable item) <input type="checkbox"/> Express Mail (We will attempt to deliver on the next delivery day unless you instruct the post office to hold it.) <input type="checkbox"/> Certified <input type="checkbox"/> Delivery <input type="checkbox"/> Firm Bill	<input type="checkbox"/> Registered Insured <input type="checkbox"/> Merchandise <input type="checkbox"/> Confirmation <input type="checkbox"/> Confirmation	<input type="checkbox"/> If checked, you or your agent must be present at time of delivery to sign for item Article Number(s) _____ _____ _____ _____ <div style="background-color: #004a99; color: white; text-align: center; padding: 2px;">Notice Left Section</div> Customer Name and Address _____ _____
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Article Requiring Payment Amount Due <input type="checkbox"/> Postage Due <input type="checkbox"/> COD <input type="checkbox"/> Customs \$ _____		Delivered By and Date	
<input type="checkbox"/> Final Notice: Article will be returned to sender on _____			

PS Form 3849, November 1999

Delivery Notice/Reminder/Receipt

Sample documents



INVOICE		SERVICE PROVIDER		DISTRIBUTOR	
Invoice	980056	POWER DIRECT USAP		TMW CV	
Invoice Date	January 30, 2002	Peter Wright			
Customer	1168116	Main Street 123			
		Rochester, MN			
		PETER.WRIGHT@POWERDIRECT.COM			
		VAT number: 403199702			
		4078 East Highway			
		Page, AZ 9041			

STATE BANK
4078 East Highway
Page, AZ 9041

ACCOUNTS PAYABLE	VALUE (USD)	VAT rate
Energy Type electricity		
Base	235,23	21,00%
VAT 21,00%	base : 235,23	49,4
Subtotal	284,63	
Energy Type gas		
Base	81,51	21,00%
VAT 21,00%	base : 81,51	17,12
Subtotal	98,63	
Energy Type water		
Base	1,81	6,00%
VAT 6,00%	base : 1,81	0,11
Subtotal	1,92	
TOTAL DUE	385,18	USD

PAYMENT INSTRUCTIONS

Please pay the exact amount of 385,18 USD before February 14, 2002
To: IMEWO CVNV
Account: 000-1680126-86

VAT INFORMATION

energy	VAT rate	base	VAT	total due
electricity	21,00%	235,23	49,4	284,63
gas	21,00%	81,51	17,12	98,63
water	6,00%	1,81	0,11	1,92



Quote this reference for order inquiries

123456-01
123456-01



Print: 12345.7/9 Batch: 1234567 (0/1)

Screwfix Direct Ltd Reg Office: Mead Avenue, Houndstone Business Park, Yeovil BA22 8RT

Reg No: 3006378 VAT No: 232 5555 75

Deliver To:

Pete Edwards
89 Main Street
London
UK
4556

Order:

Invoice No.: 1234-123456 22 September
Customer No.: 1234567890 2003
Your Ref.: 1234567890123456789
0

Payment:

Total Paid: 5473****8457 Method: MasterCard
Details: 78.74 Exp:05/04

Your Order:

D	Quote	Cat	Description	Qty	Pk Size	Pk Price	Sub Total	Less Disc	Net Total	%	VAT	Gross
	12345	123	76MM NECKBOLT	123,567	12,456	89	12,456.89		123,567.90	n/a	12,45	123,567.90
			1KG ABC FIRE EXTINGUISHER	123,567	12,456	89	12,456.89	-34,678.01	123,567.90	12.4	12,45	123,567.90
	12345	123	1.83M CHROMRAIL	123,567	12,456	89	12,456.89		123,567.90	n/a	12,45	123,567.90
			19MM CHROM END	123,567	12,456	09	12,456.09		123,567.90	n/a	12,45	123,567.90
	12345	123	76MM NECKBOLT	123,567	12,456	89	12,456.89		123,567.90	n/a	12,45	123,567.90
	12345	123	6 BALL END CHROME HOOK BOA	123,567	12,456	89	12,456.89		123,567.90	n/a	12,45	123,567.90
	12345	123	8.0 LONG HSS MM	123,567	12,456	89	12,456.89		123,567.90	n/a	12,45	123,567.90
TOTALS:				123,456			123,567.90	-34,678.01	123,567.90		12,45	123,567.90

25mm x 25mm
Greyscale or
Line Image

Thank you for your order.
You saved **£0.80**
Look for the 'D'. Spend over £45 on
discountable items when you buy from the
Screwfix catalogue or online at
www.screwfix.com

25mm x 25mm
Greyscale or
Line Image

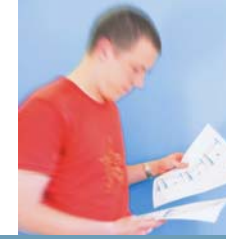
25mm x 25mm
Greyscale or
Line Image

D. Disc: Discount/able. Cat: Catalogue. Qty: Quantity, Pk: Pack, %: Percentage of VAT

1 of 1

Freephone: 0500 41 41 41 Mon-Fri: 7am-10pm Sat & Sun: 8am-8pm Fax: 0800 056 2256 Online: www.screwfix.com

Sample documents



Leu Swiss Equities

Bank Leu Mutual Funds

Monthly Report
October 2003

Fund and Risk Profile

The fund invests primarily in Swiss equities. Besides the stocks contained in the SMI (Swiss Market Index), its investment universe also includes small and mid-sized companies. Stock selection and sector weightings are actively managed. The fund seeks to outperform the SPI (Swiss Performance Index). The fund is suitable for investors who want exposure to a well-diversified portfolio of Swiss stocks. The risk of the fund is comparable to the risk of the SPI.

Portrait

First Issue	13 October 1995
Benchmark	SPI
Fund Domicile	Switzerland
Fund Manager	Bank Leu Ltd.
Fondsleitung	
Depotbank	
Fund Currency	CHF
Minimuminvestment	
Erstausgabepreis	
Management Fee	1.0% p.a.
Performance Fee	
High Watermark	
Distribution	End of February
Zuzeichnungen/rücknahmen	
Verkaufsrestriktionen	
Issuing Commission	1.5%
Redemption Commission	

Key Figures as per 27.10.03

Net Asset Value	CHF 160.98
Highest last 12 months	CHF 218.43
Lowest last 12 months	CHF 146.90
Issues/Redemptions	Daily until 16.00 CET
Total Fund Assets	CHF 384.2 m
TER (Total Expense Ratio)	0.98%

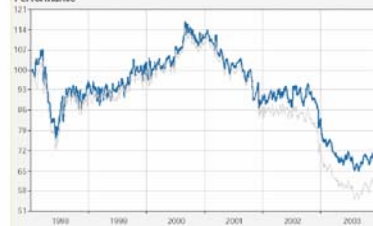
<Header>

Swiss Securities Number	368 578
ISIN	CH0003685788
German Securities Number	989 013
Bloomberg Ticker	LEUSWEQ SW
Price Quotes	NZZ, Le Temps, FuW Tages-Anzeiger, Cash

The 10 largest positions

Novartis	21.0%
Nestle	18.1%
UBS	15.1%
Roche GS	12.5%
CS Group	8.0%
Swiss Re	4.2%
Zurich FS	4.0%
Richemont	1.9%
Centerpulse	1.9%
SGS Surveillance	1.8%

Performance



Cumulated Performance

	Fund	SPI	Lipper Average
YTD in %	-1.0	2.0	1.4
1 year in %	-24.8	-27.2	-29.0
3 years in %	-34.6	-37.2	-42.5
5 years in %	-28.9	-31.4	-35.4

Review and Outlook

In May the Swiss equity market managed to maintain the high levels it had reached. The biggest winners were banks, financial services and technology, while the biggest losers were chemicals and construction. Volatility continued to decline, falling below the 30% mark. However, this is still an unusually high level. We expanded the mid-cap segment somewhat in the portfolio. The beta of the securities in the portfolio remains slightly above one. As long as the central banks keep up their aggressive monetary policies, there should be enough liquidity in the system to maintain the current price levels. In the medium to long term, however, fundamentals will have to improve considerably. Above all, the crucial factor is whether consumers will remain reluctant to buy or not. The current recovery is thus still very fragile and the risk of setbacks has not subsided.

Breakdown by Industries



Sarjalippu

Oplskellija, kortti esitettävä

Matti Melkäläinen

Helsinki - Turku

2IK

Volmassaoloaika 01.07.1996 - 01.08.1996

Suunta vapaa, alitakaloinmekaua

Paikkatiedot voi veratanumeroata 0307 20990

Ilmoitakao tilaunumero varauata tehdeaaänne

Leimauia konduktöörillä ilpunmyyntiosastossa

Til. nro 121000014598

Hinta 335.40 euroax

sis alv 8%

26.80 euroax

22% 1.25 euroax

280696 121212



Matkatili

1
2
3
4
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6
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10
11

Units of this investment fund may not be offered, sold or delivered within the United States.

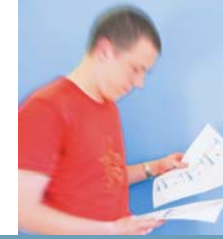
This document is for information purposes only and does not constitute an offer or a recommendation to buy the funds mentioned. All information is taken from carefully chosen and reliable sources. However, neither the author nor the editor nor Bank Leu Ltd can guarantee the accuracy or completeness. Past performance is no guarantee for future results. For more detailed information please consult the relevant fund prospectus with integrated fund regulations.

Bank Leu Ltd, Bahnhofstrasse 32, P.O. Box, CH-8022 Zurich, +41 1 219 11 11, www.leu.com

Bank Leu
seit 1755



Sample documents



Reported by:
Inventive Designers nv
St Bernardsesteenweg 552
B-2660 Hoboken, Belgium

Contact: Joke Dehond
Tel: ++32-3-821.01.70
Fax: ++32-3-821.01.71
E-mail: info@inventivedesigners.com
www.scriptrna-xal.com

MedicalReport **DRUG**

powered by *Scriptura*

The Complete Drug Analysis

Patient/Sample Details			Physician Details			
Patient name	John Hurricane	Sample Type	Plasma	HOBOKEN MEDICAL CENTRE		
Subject ID	459625	Collection Date	12-Nov-2001	ALBERT J SCHWEITZER		
Sample ID	D83077157-6	Receipt Date	0	63 WALTON STREET		
Patient ID	607390	Session	10-SEP-2003	NEW ORLEANS 78912		
Birth Date	06-Sep-1960	Report Date	700007	USA		
Gender	M	Company ID				

SUMMARY REPORT

DRUGS	FOLD CHANGE ¹	CUT-OFF ² (BCO - CCO)	DRUG ANALYSIS ³	CLINICAL NOTES (see p2 for details)	
NRRTI / NRRTI[†] mutations: 31, 10F, 12P, 14R, 18E, 32I, 33F, 37N, 41K, 46I, 47V, 50V, 55R, 63P, 69Y, 77I, 85V, 93L					
Posuere™	Aliquam	29.5	4.0	Resistant	
Facilis™	Aenean	3.3	4.5	Susceptible	
Vestibulum™	Faucibus	Rules-Based Interpretation		Resistance Likely	
Luctus®	Ultrices	1.1	2.0	Susceptible	
Curae™	Egestas	1.7	1.8	Susceptible	
Mauris™	Imperdiet	1.8	3.0	Susceptible	
Aliquam™	Voluptat		3.0	Resistant	
Pellentesque™†	Curabitur	1.8	3.0	Susceptible	
NNRTI mutations: 41L, 70R, 74V, 69T, 69S, 135R, 162C					
Tincidunt™	Vivamus	59.8	8.0	Resistant	
Congue™	Fermentum	51.7	10.0	Resistant	
Vehicula, Libero	Aenean	371.4	6.0	Resistant	
PI mutations: 173R, 181C, 190A, 200I, 207D, 211K, 214F, 215Y, 219R, 219K, 221Y, 244V, 277K, 292I, 293V, 311R, 329Y, 345I, 374D, 376A					
Condimentum	Facilis	0.8	3.0	Susceptible	Note 1, 2
Ligula™	Adipiscing	0.8	3.5	Susceptible	
Risus	Fusce	0.9	4.0	Susceptible	
Interdum, Maurus	Turpis	0.7	2.5	Susceptible	Note 2
Curabitur	Elementum	0.7	2.0	Susceptible	Note 2
A component of Potenti	Fringilla	0.7	2.0	Susceptible	Note 2
Accumsan	Lobortis	Rules-Based Interpretation		Resistance Likely	

1. Predicted Fold Change in 50% Inhibitory Concentration (IC50), relative to susceptible laboratory reference virus. 2. Cut-off values for normal susceptibility range (biological cut-off) or maximum virologic response in treated patients (clinical cut-off). Clinical cut-offs are printed in bold and underlined. 3. Analysis of drug resistance, based on predicted Fold Change and cut-off values. "SUSCEPTIBLE" means within normal susceptibility range; "RESISTANT" means above normal susceptibility range but below clinical cut-off. "RESISTANT" means above normal susceptibility range or above clinical cut-off. See page 3 for definitions.



MedicalReport **DRUG**

powered by *Scriptura*

The Complete Drug Analysis

SUBJECT ID 459625 COMP ID 700007

DETAILED ANALYSIS REPORT

ANALYSED SEQUENCE REGION		MATCHES IN DATABASE	PROPORTION OF MATCHED SAMPLES				Mean Fold Change in IC50	Cut-off Values For normal susceptibility range For maximum virologic response
SUBTYPE ANALYSIS CLADE F			25	50	75	(%)		
DRUGS								
Posuere™	Aliquam	POS 342	[Bar chart showing 25% match]				29.5	4.0
Facilis™	Aenean	FAC 399	[Bar chart showing 3.3% match]				3.3	4.5
Vestibulum™	Faucibus	VST 73	[Bar chart showing 3.2% match]				3.2	2.0
Luctus®	Ultrices	LCT 249	[Bar chart showing 1.1% match]				1.1	2.0
Curae™	Egestas	CUR 246	[Bar chart showing 1.7% match]				1.7	1.8
Mauris™	Imperdiet	MAU 224	[Bar chart showing 1.8% match]				1.8	3.0
Aliquam™	Voluptat	ALQ 0	[Bar chart showing 3.0% match]				3.0	
Pellentesque™	Curabitur	PLT 224	[Bar chart showing 1.8% match]				1.8	3.0 - 4.0, 4.0
Tincidunt™	Vivamus	TNC 247	[Bar chart showing 59.8% match]				59.8	8.0
Congue™	Fermentum	CNG 246	[Bar chart showing 51.7% match]				51.7	10.0
Vehicula, Libero	Aenean	VHC 237	[Bar chart showing 371.4% match]				371.4	6.0
Condimentum	Facilis	CND 3042	[Bar chart showing 0.8% match]				0.8	3.0
Ligula™	Adipiscing	LGL 3043	[Bar chart showing 0.8% match]				0.8	3.5
Risus	Fusce	RIS 3047	[Bar chart showing 0.9% match]				0.9	4.0
Interdum, Maurus	Turpis	ITD 3042	[Bar chart showing 0.7% match]				0.7	2.5
Curabitur	Elementum	CRB 2210	[Bar chart showing 0.7% match]				0.7	2.0
A component of Potenti	Fringilla	POT 2210	[Bar chart showing 0.7% match]				0.7	2.0 - 10.0, 10.0
Accumsan	Lobortis	ACM 0	[Bar chart showing 2.0% match]				2.0	0

Additional Clinical Notes

Note 1 Pharmacokinetic enhancement with RTV may increase drug concentrations and overcome some degree of resistance to CRB, CND, ITD and ACM. This effect is already accounted for in the 'clinical cutoff' for POT when dosed as Potenti™.

Note 2 Should not be combined with Condimentum

Note 3

Note 4

Note 5



XSL



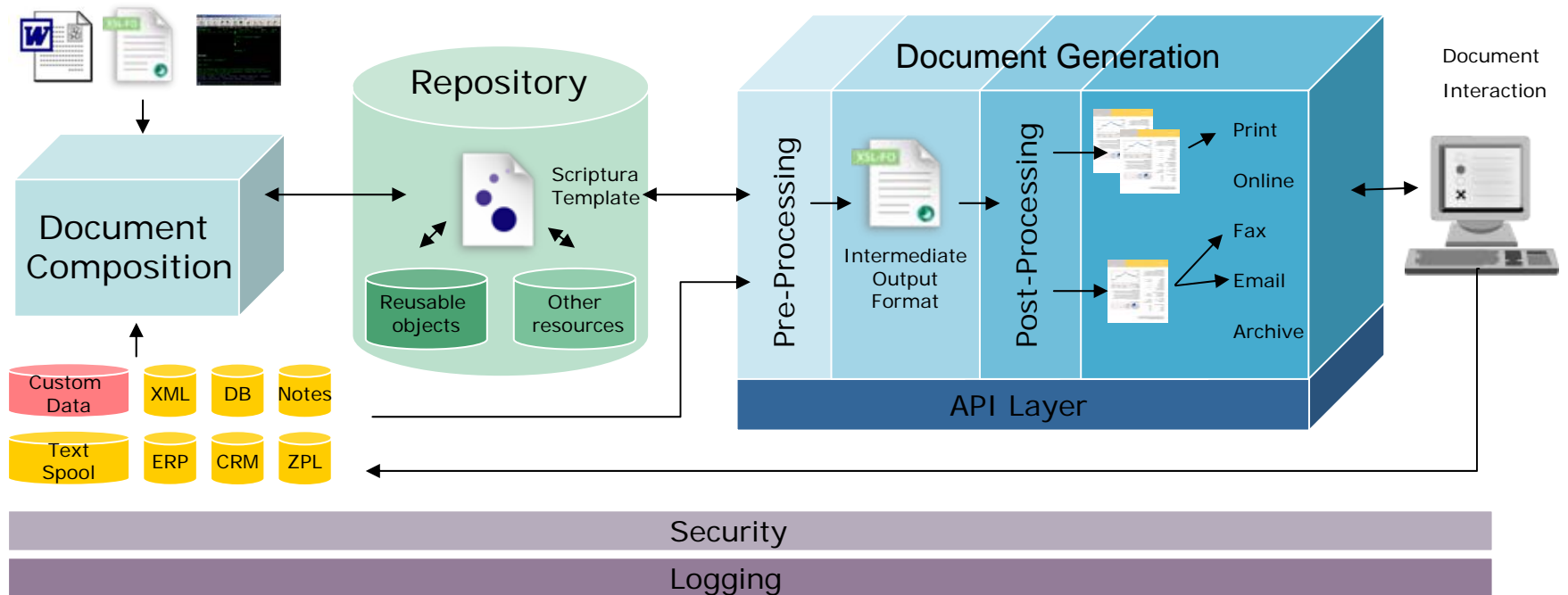
- XSL
 - Designed from beginning for presenting paginated content, built on expertise of DSSSL
- XSLT
 - Transformations, calculations, etc
 - Change the structure of the data
 - Can take data from more than XML
 - Database (with extensions)
 - Text
 - XML syntax
 - Calculations, charts, number/date/time formatting, parameters, ...
- XSL-FO
 - Formatting Objects can be converted to output format
 - Mostly used as intermediate format
 - Express formatting semantics and structure of documents
 - Can maintain tables, paragraphs etc in output formats that support it
 - Very wide set of features
 - XML syntax



 **inventivedesigners**
making communication easy

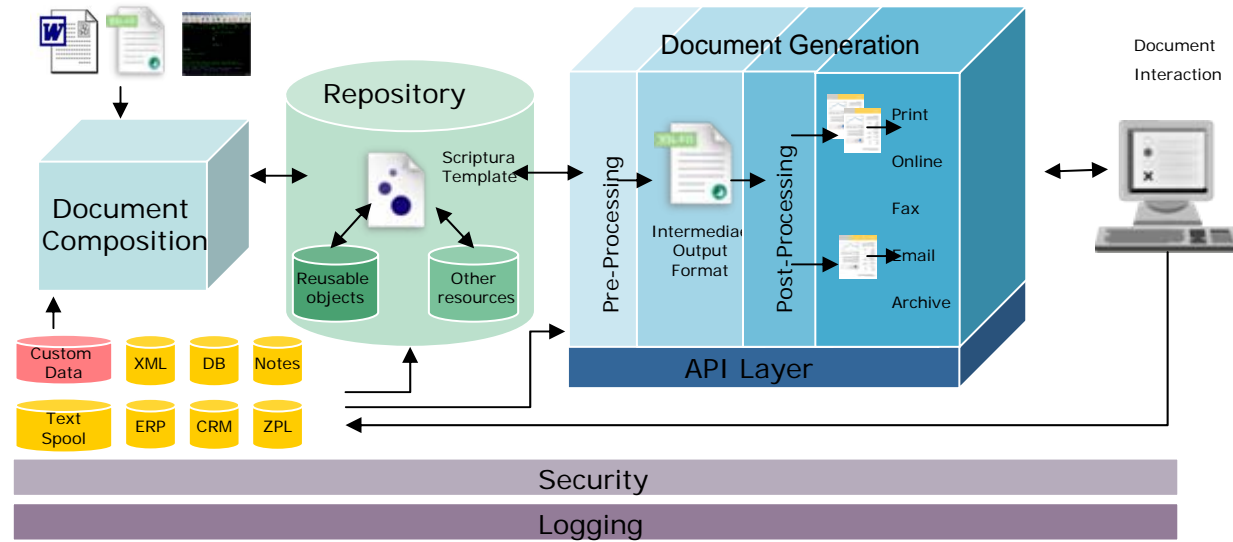
Scriptura

Document Lifecycle



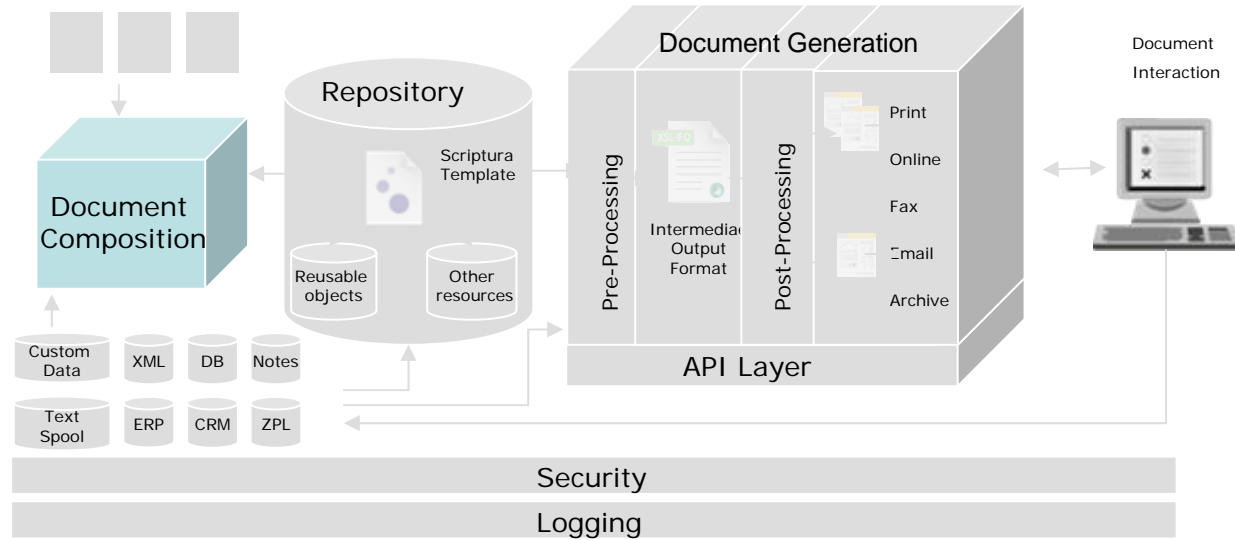
- Scriptura provides a single solutions for building and deploying all batch, real-time and interactive document applications across an enterprise

Scriptura

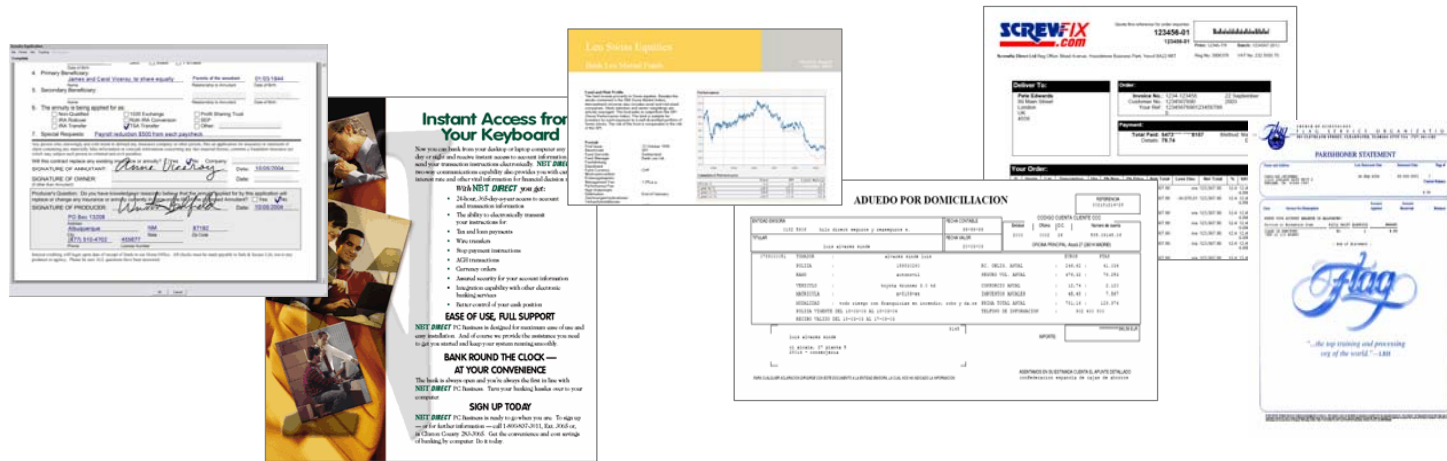


- Built on Open Standards
- Modular and Extensible
- Multi-Platform
- Multi-Channel
- Multi Media
- Scalable
- Multi-format

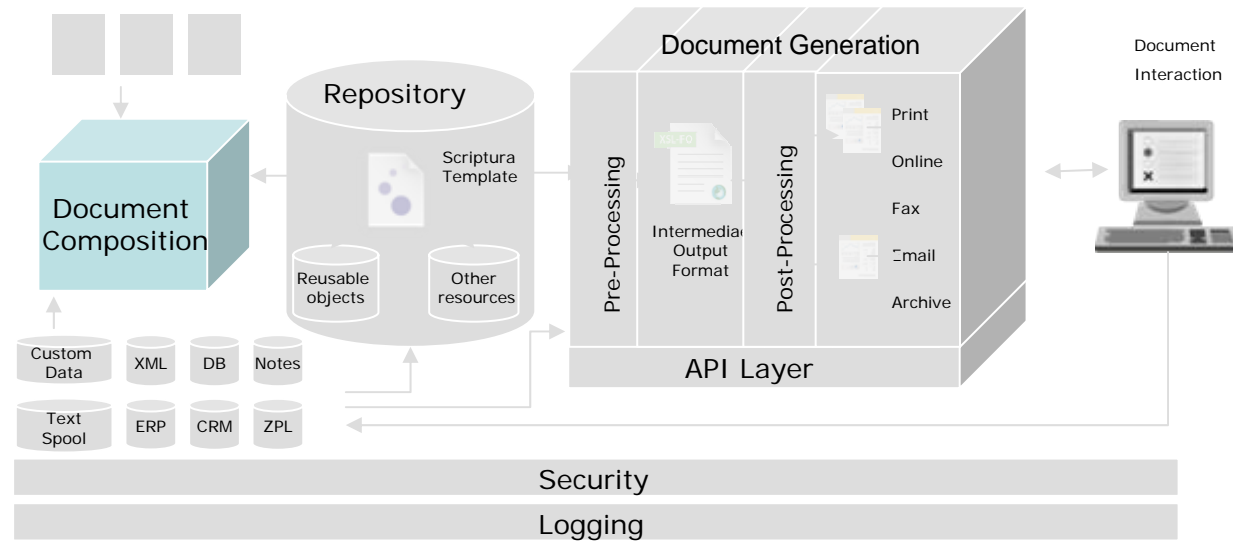
Document Composition



- Create/maintain any type of template
 - Reports, invoices, electronic forms, 1-to-1 marketing messages ...

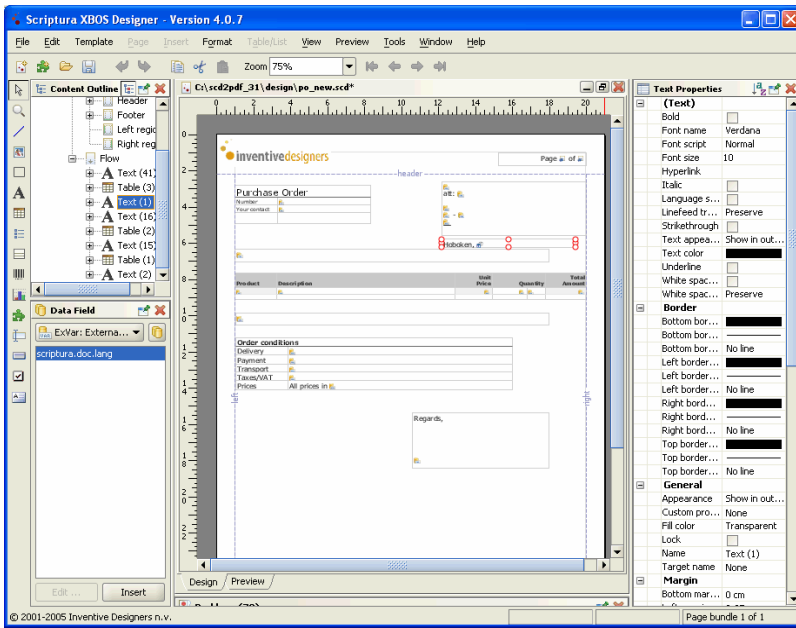
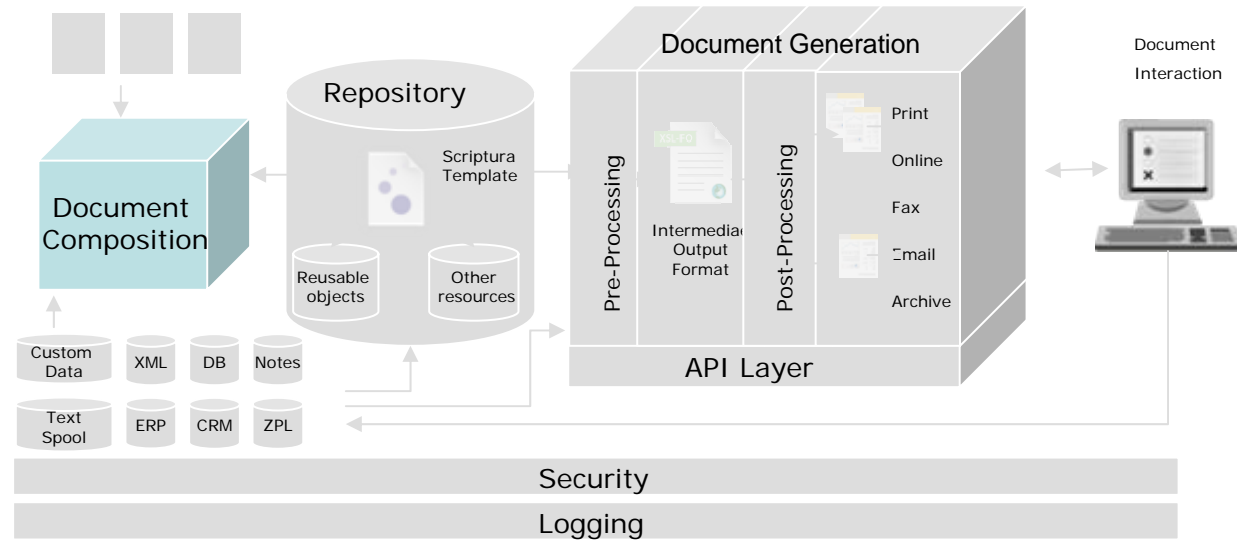


Document Composition



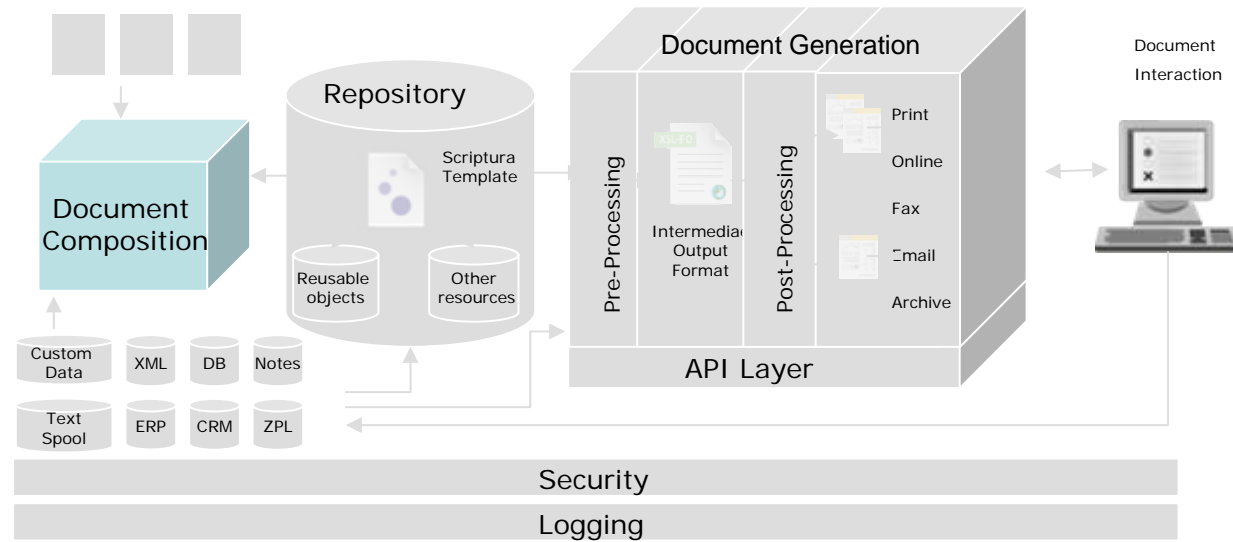
- WYSIWYG
- Completely wizard driven – No programming required
- Non-IT personnel can create/maintain own templates

Document Composition



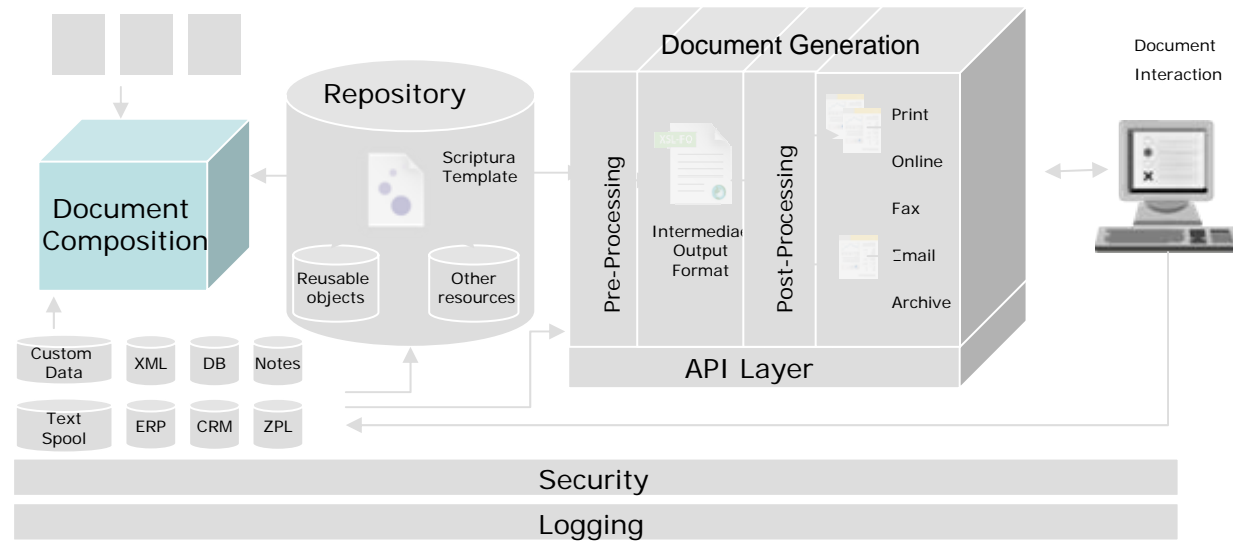
- Screenshot Designer

Document Composition



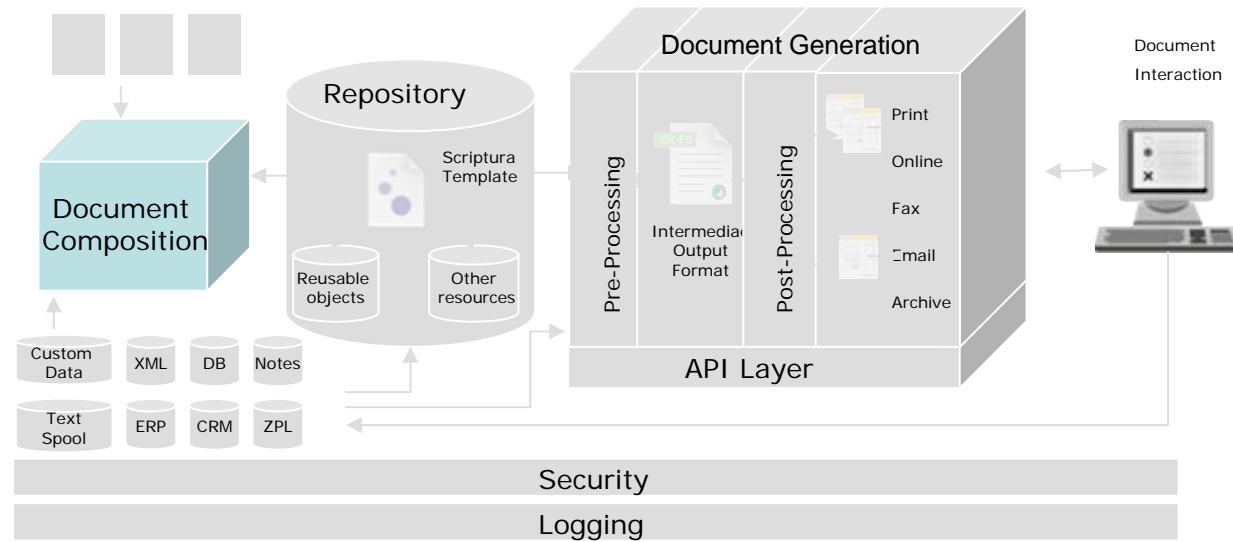
- Use any number of different page bundles and page layouts in 1 template
- Use text objects, tables, lists, images, charts, bar codes ... to design templates
 - All objects can be static and/or dynamic
 - Every object can be formatted

Document Composition



- Object handling
 - Positioning (absolute / relative)
 - Cut/Paste, Group, Align, Distribute, Resize, Order, Keep ...
- Object formatting
 - Color, Margins, Borders, Paragraph (alignment, indents, keep, ...), Background, Size ...
 - Password protect objects

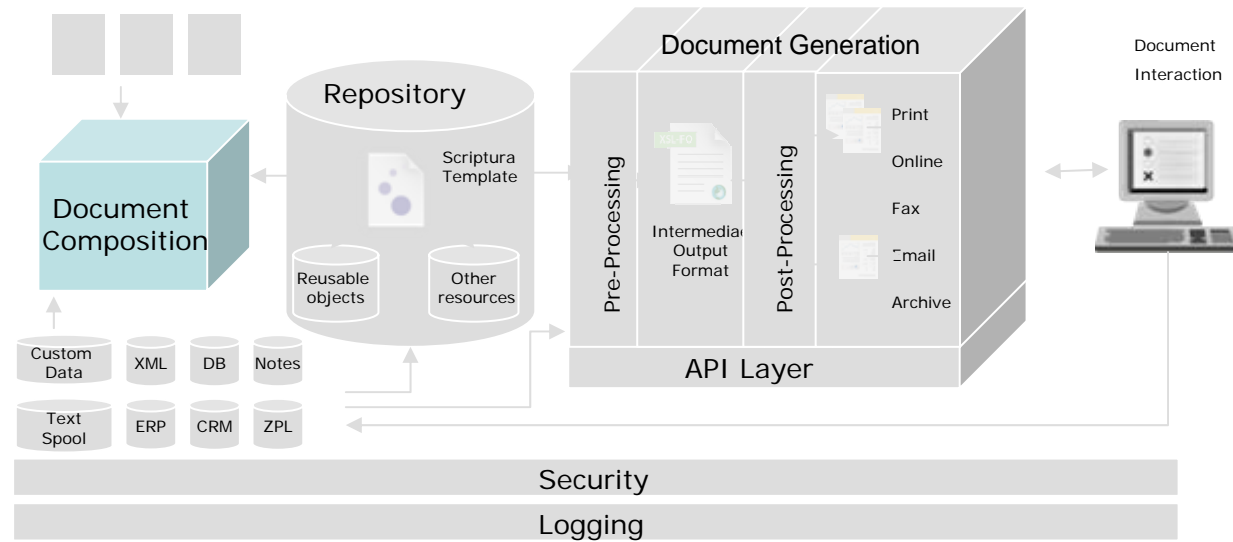
Document Composition



- **Multilingual**

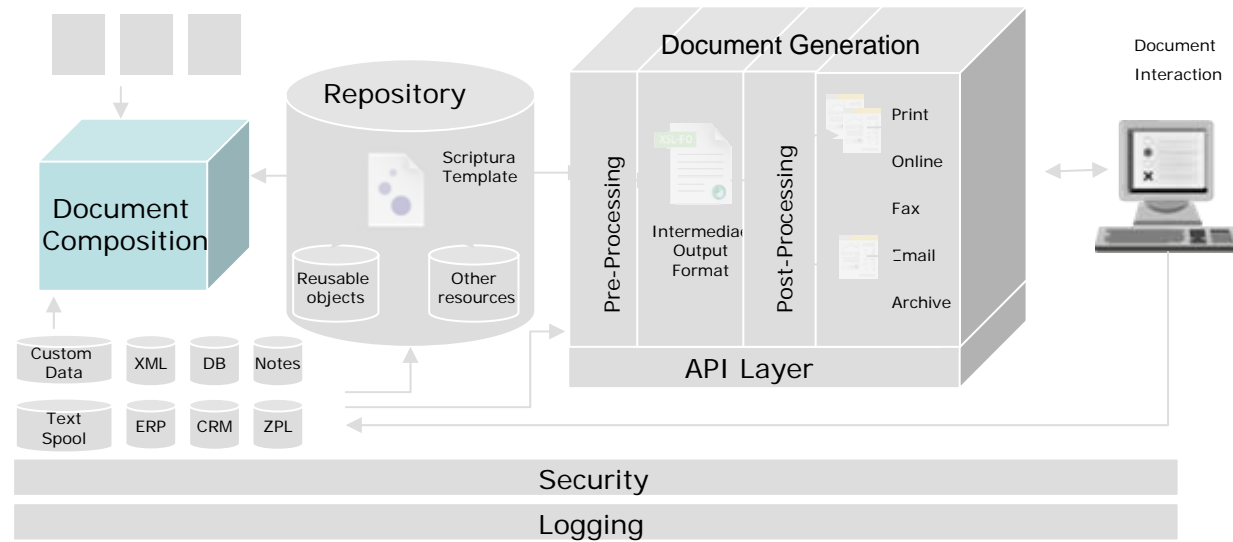
- Create/maintain only one template for different languages
- Country settings
- Automatic numeric & date formatting when other language is selected
- Specify language at runtime

Document Composition



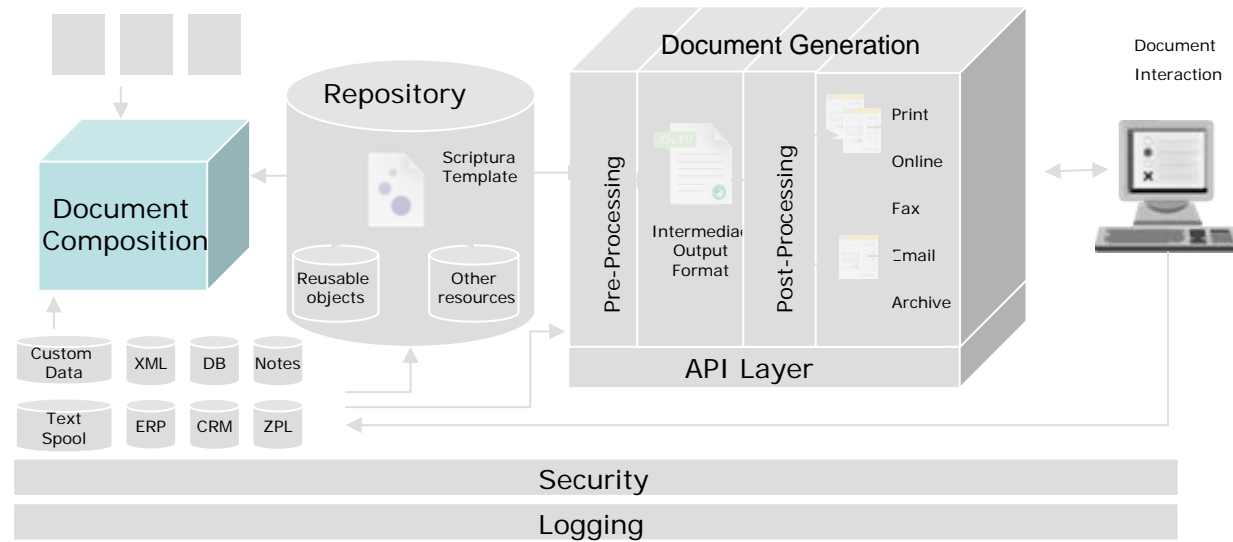
- Add business logic
 - Expressions (XPath, Javascript)
 - Conditions
 - Variables & External variables
- Wizard driven - No programming required

Document Composition (forms)



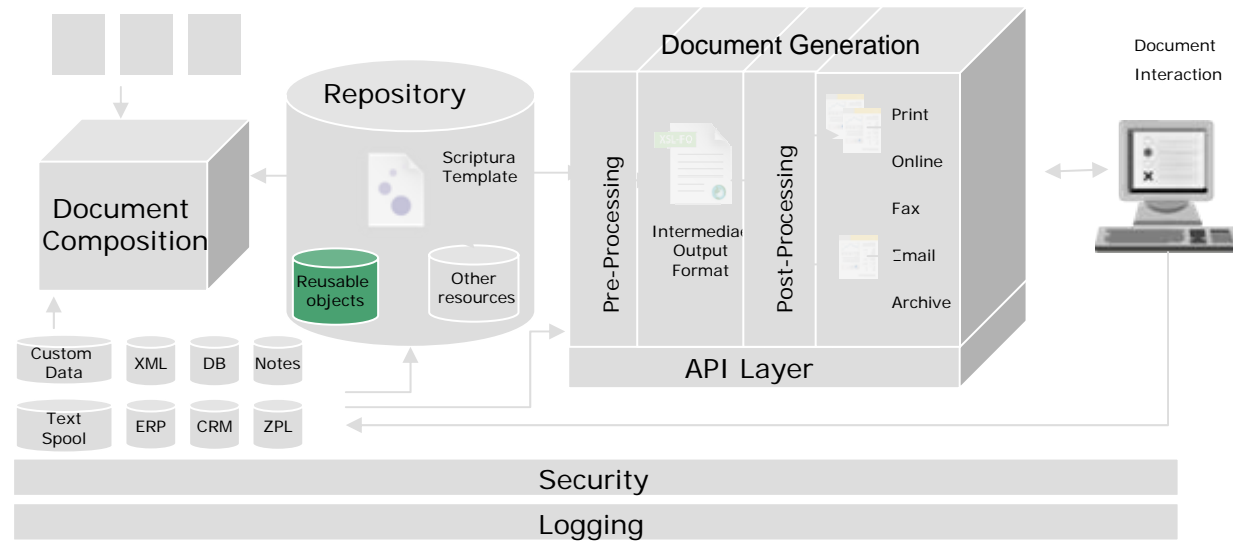
- Create any type of intelligent forms
 - Fields: text, numeric, date/time, rich text, read-only, required ...
 - Check box, repeated items ...
 - Buttons: submit, reset, add/remove dynamic row
 - Help text, hint text, hover text
- Strong input validation
 - Constraints, Calculations, Default values (Static or Dynamic)

Document Composition (forms)



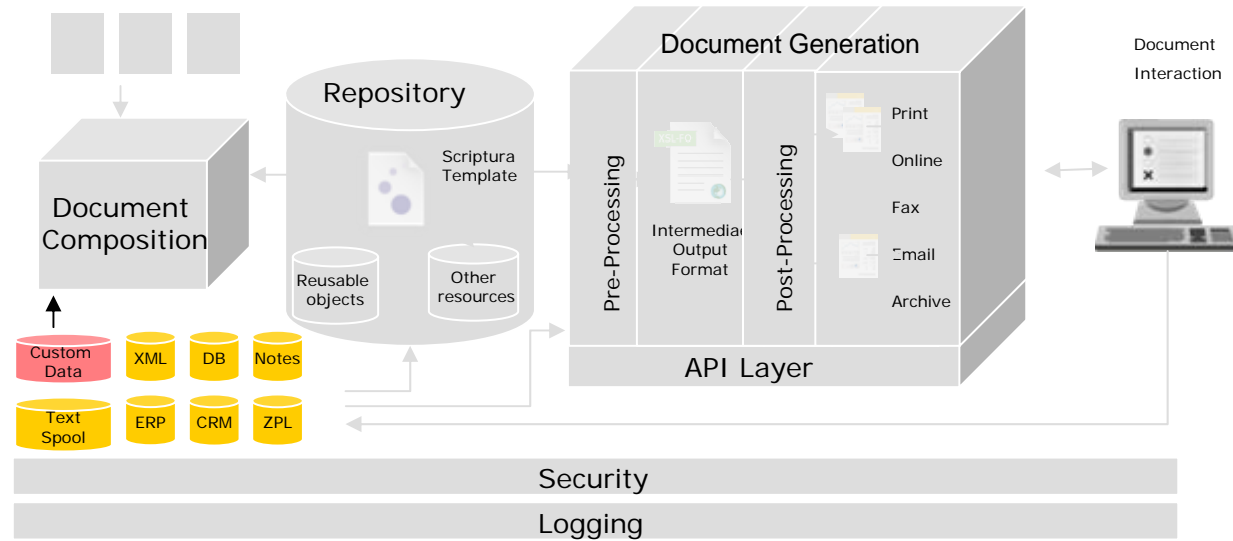
- Single button form preview at any time, so users can prototype, review, test and modify form templates immediately.

Document Composition



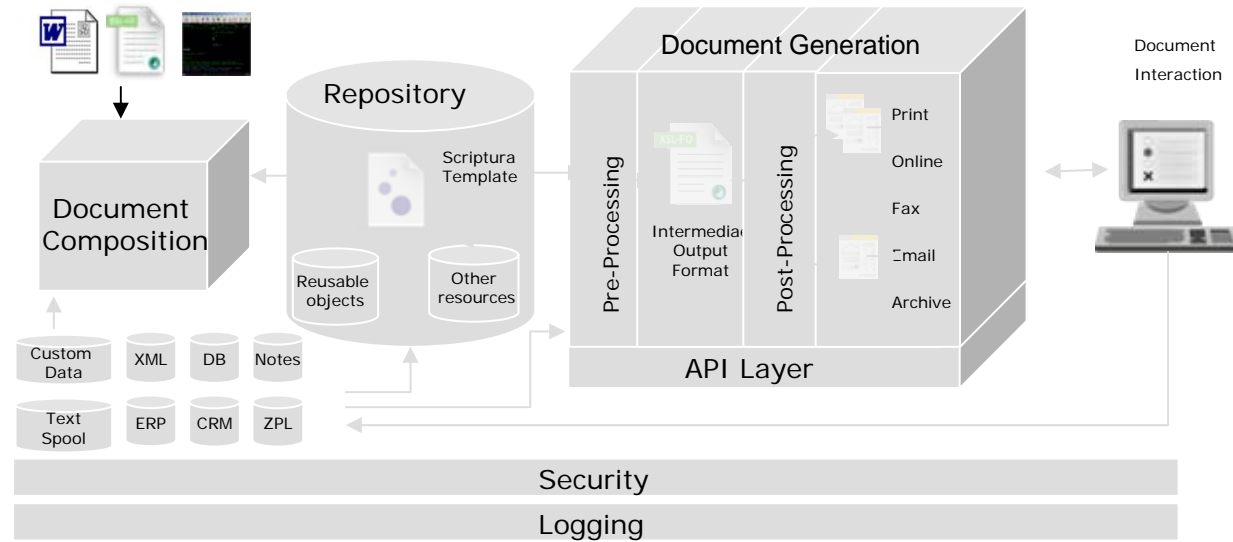
- Create reusable objects
 - Reusable objects can be used in multiple templates
 - Can contain any combination of objects, data and other reusable objects
 - Stored in the repository

Application Data



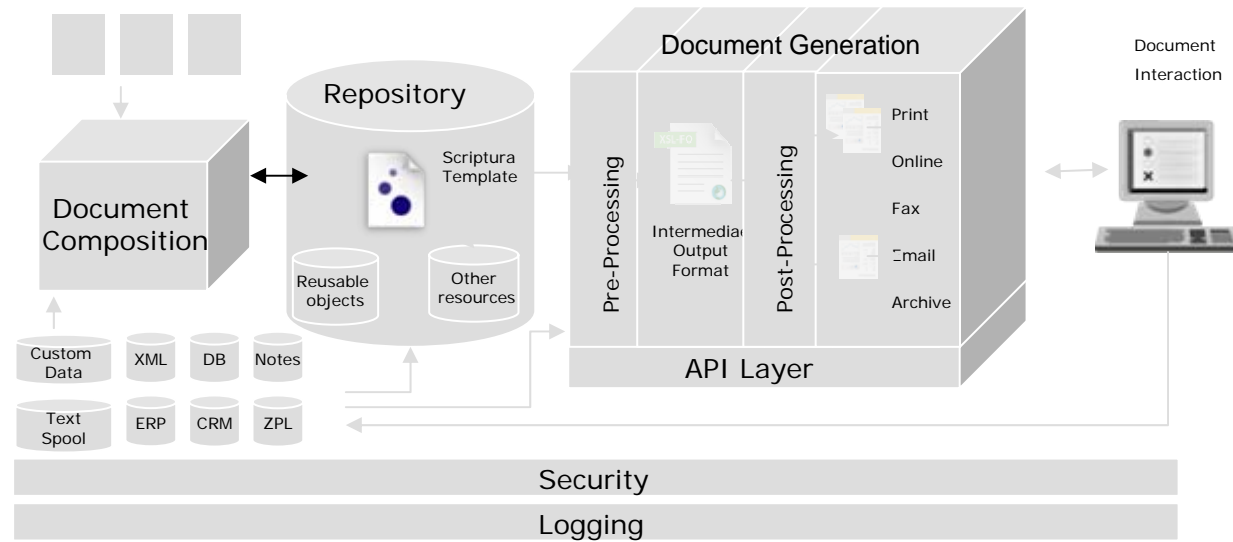
- Use unlimited number and any combination of data sources to design templates
 - XML (schema/non schema)
 - Relational Database
 - Lotus Notes/Domino
 - Text and Spooled Data
 - Custom Data Source

Import Existing Templates



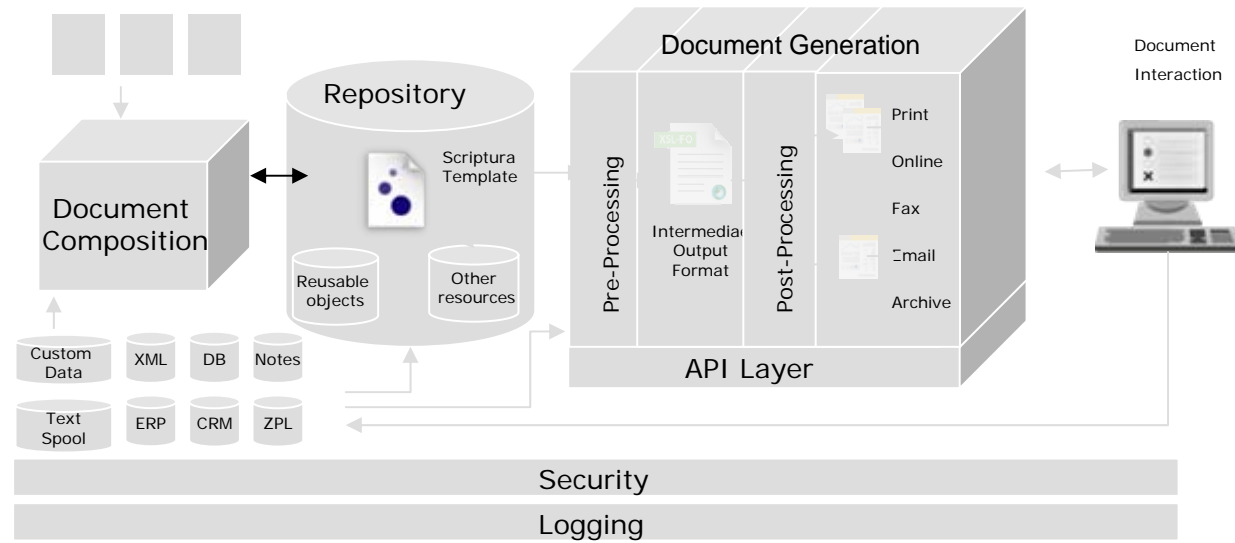
- Import
 - MS Word
 - XSL-FO
 - DTM
- No need to redesign templates

Document Template



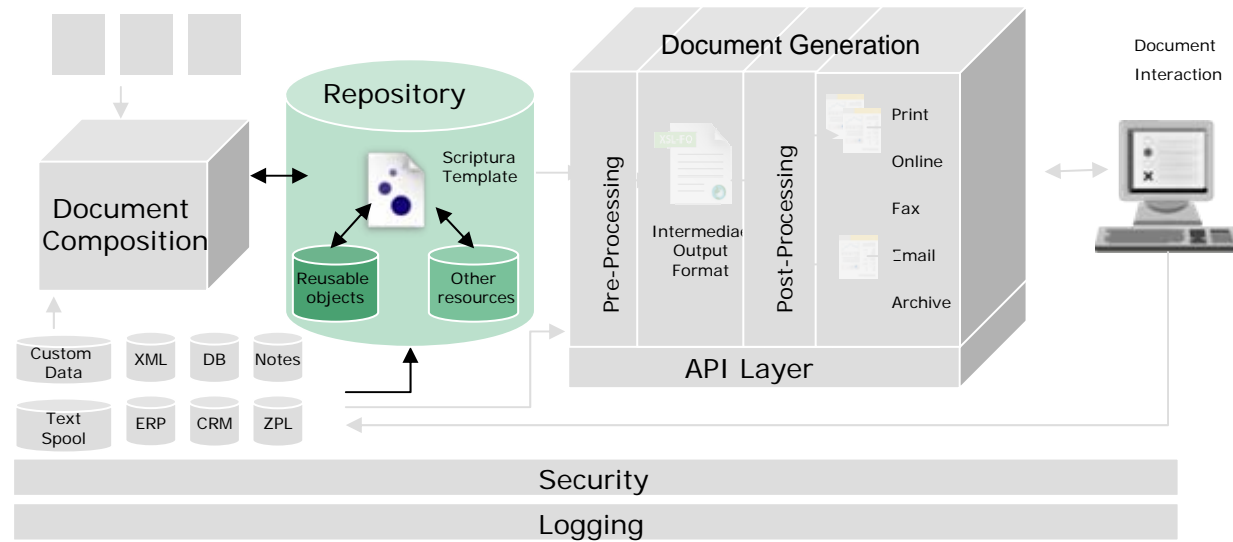
- Scriptura template contains layout independent on final output format
 - Template is presented as unique combination of W3C Open Standards (XSL, XSLT, XPath, XSL-FO, XForms)
 - Create any output format for any output channel from one and the same template
 - Example: Create paper forms and electronic forms from one and the same template

Document Template



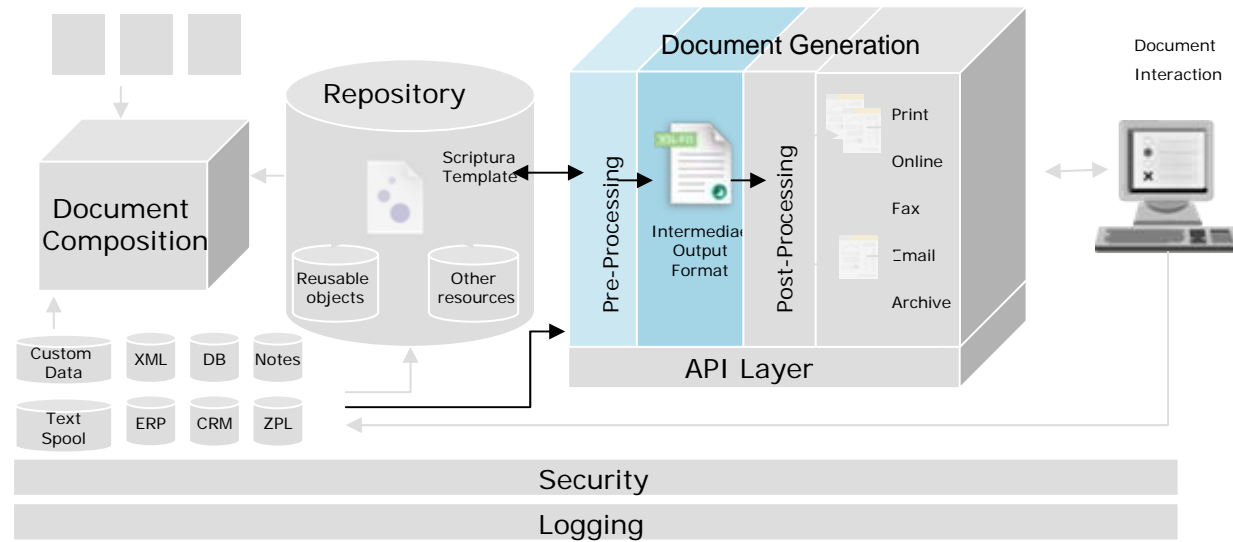
- Template security
 - Protect objects
 - Hiding objects
 - Password protect templates

Repository



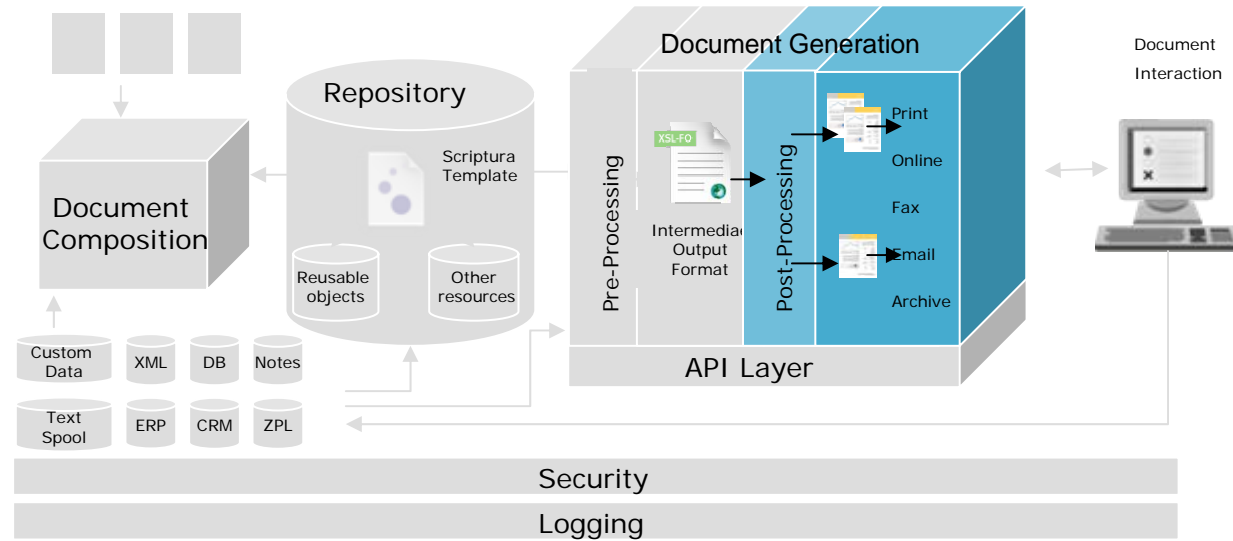
- Store reusable objects, templates and other resources in the repository
- Based on WebDAV (Open Standard protocol)
- Features
 - Versioning, Labeling
 - Multiple repositories and custom repositories possible

Intermediate Output Stream



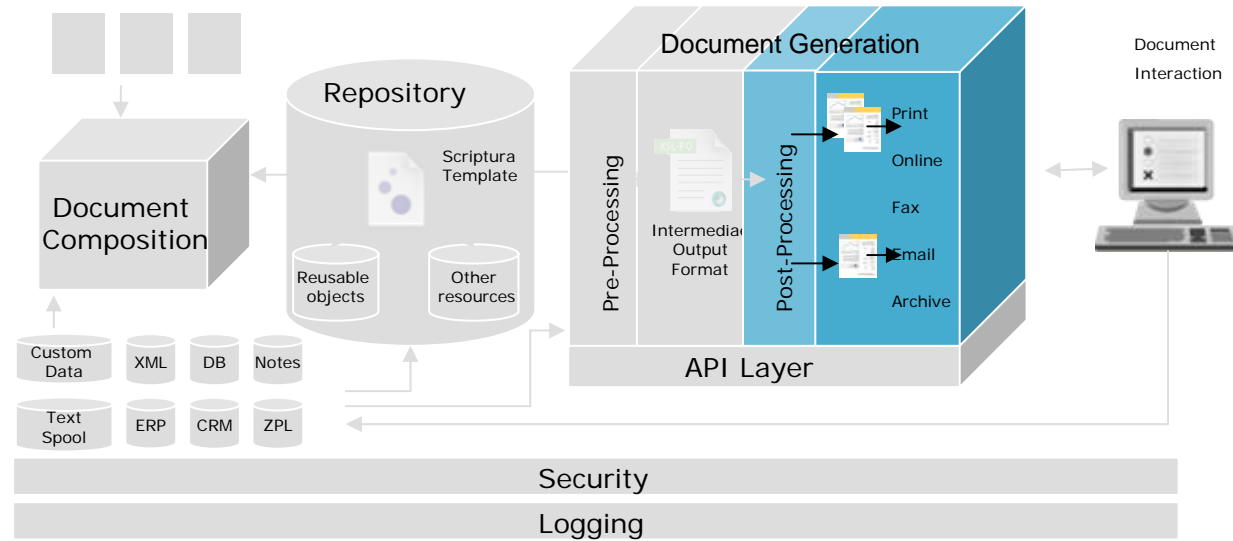
- XSLT step transforms data into intermediate XSL-FO
 - W3C XSL-FO standard (Extensible Stylesheet Language Formatting Objects)
 - XSL-FO describes the formatting of data for output to screen, paper or other media
 - Contains the data + formatted objects previously retrieved

Post Processing



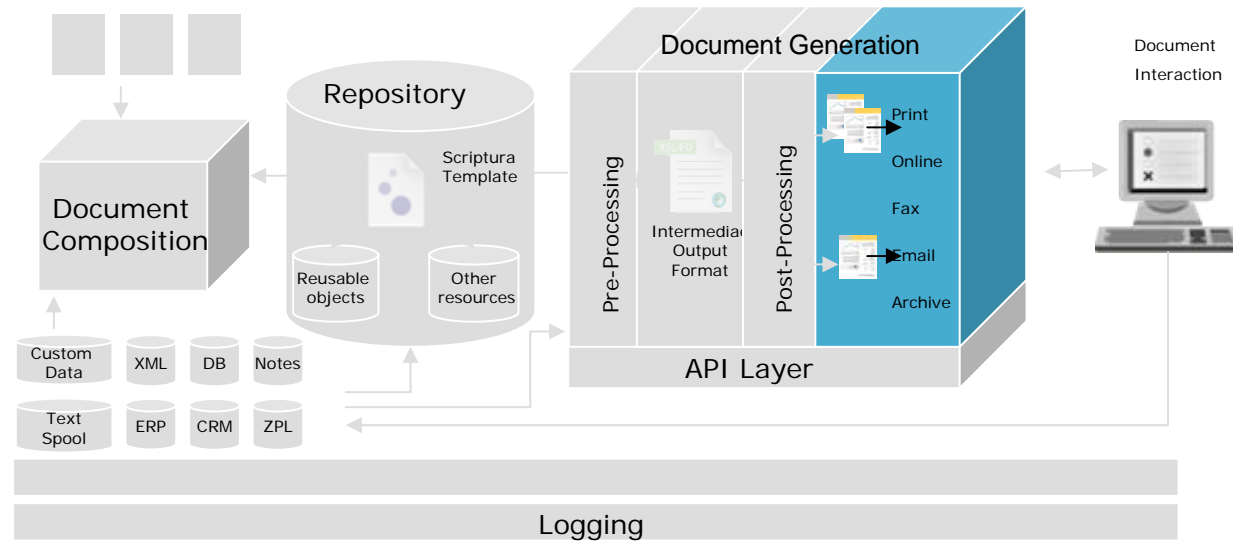
- Post-processing handles grouping, merging, splitting, selecting, sorting ... of pages
- Adjusting individual documents in flow
 - Add bar codes, page numbers, overlays, OMR & OCR Marks, specific content, cover pages ...
- Redirecting of output and output formats possible
- Allows Post Processing for postal cost optimisation

Post Processing



- Creates final output format from one template
 - PDF
 - AFP, PS (high volume printers)
 - XForms (online forms)
 - XML (data)
 - JPG, PNG (email)
 - SVG
 - XSLT, XSL-FO, Paged XSL-FO (compatibility, flexibility)
 - PCL, PS (low-cost printers)
 - RTF (MS Word)
 - HTML (the web)
 - TecPCL, ZebraPL (label printers)
 - TIFF (fax)
- Output format can dynamically be determined at runtime

Post Processing



- Output handling

- Printing

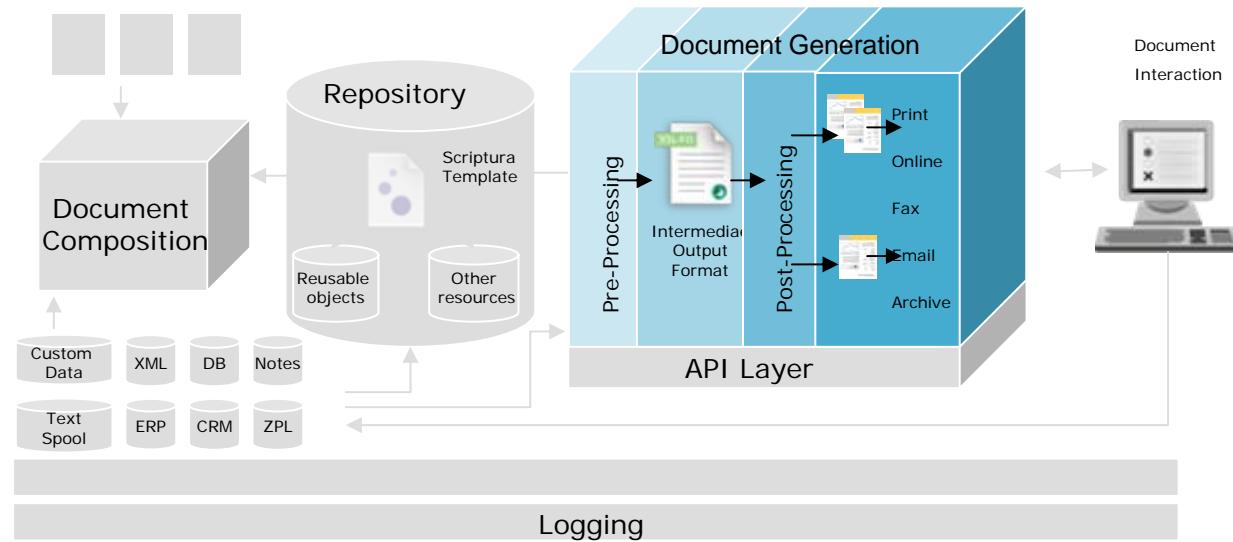
- Nr of copies, Simplex/Duplex, Set finishing, Specify media tray, ...
 - Central / Decentral printing

- Email

- Fax

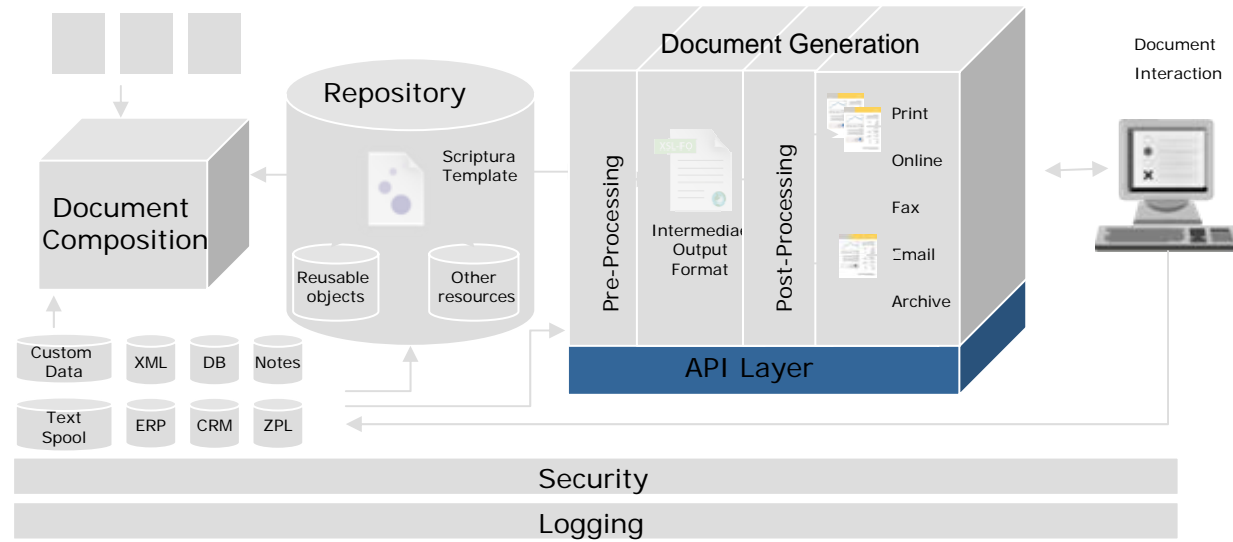
- Filing/Streaming/Archiving

Document Generation



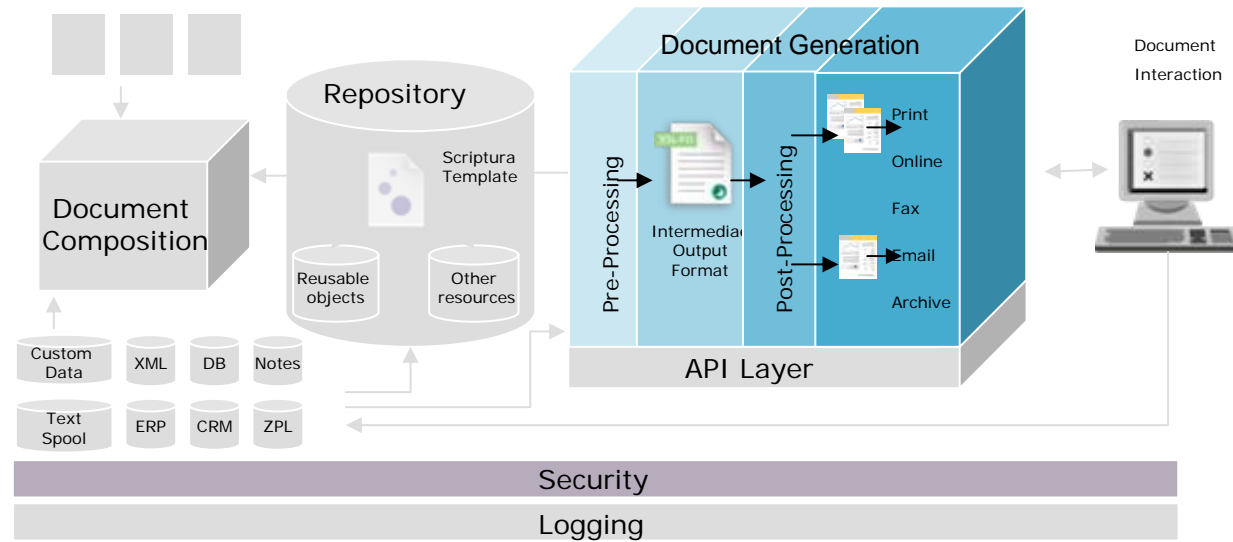
- Scalable
 - High Volume (Batch approach)
 - On Demand (Interactive approach)
- Configuration, Administration
- Memory usage, Caching properties, Font mapping
- Definitions of "roles": Authentication / Authorization

API Layer



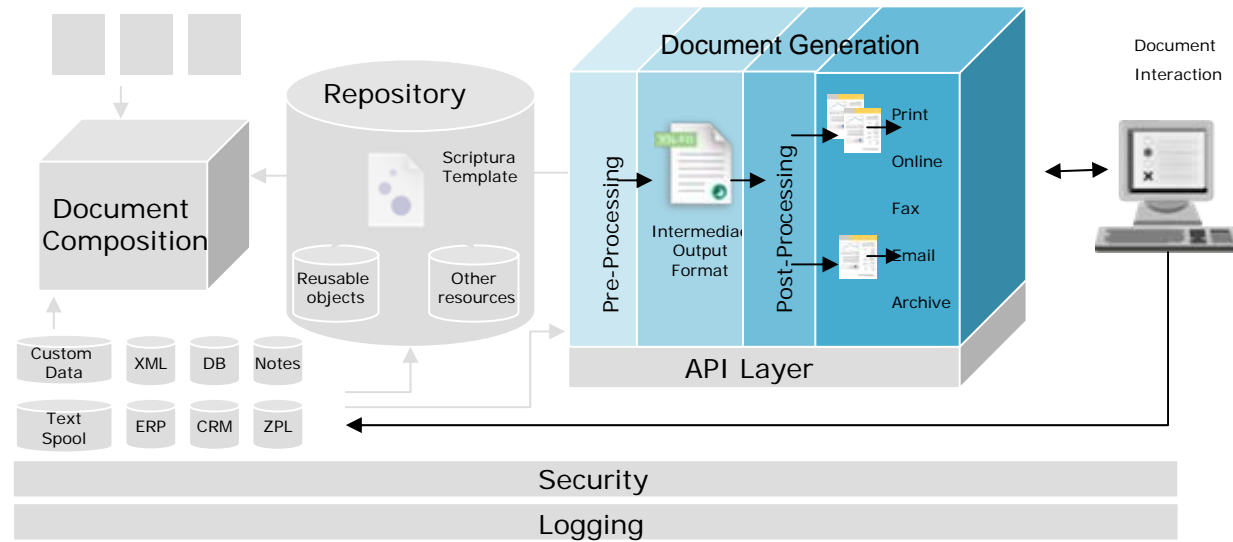
- Seamless integration with any (legacy) application
 - Command line
 - Java API's
 - OS/400 CL Commands
 - C++
 - .NET Interface
 - Graphical User Interface

Document Generation



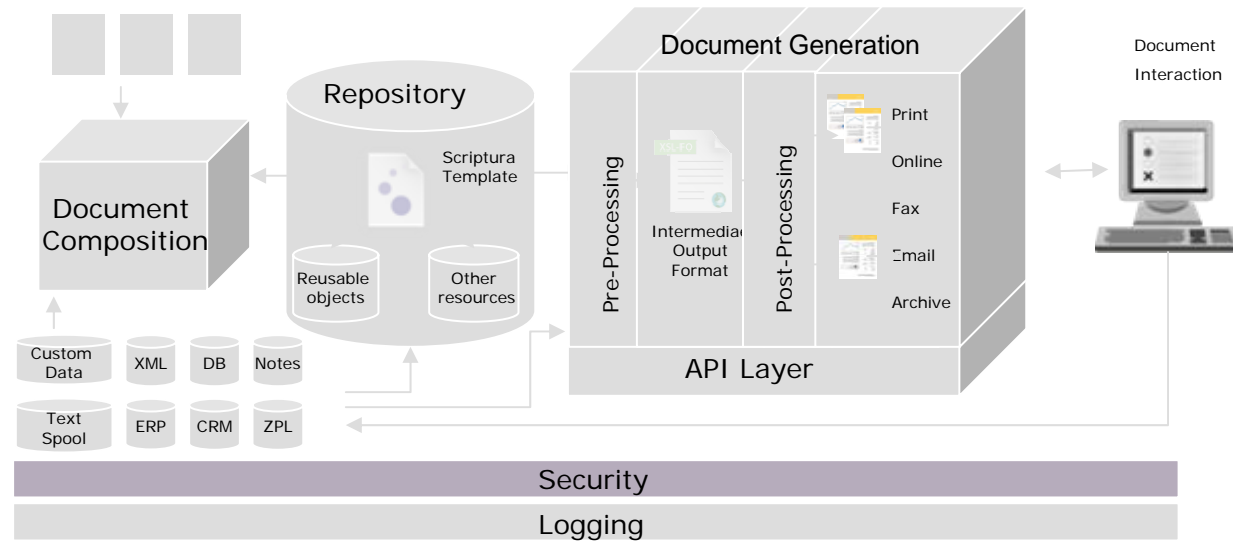
- Scalable
 - High Volume (Batch approach)
 - On Demand (Interactive approach)

Document Generation



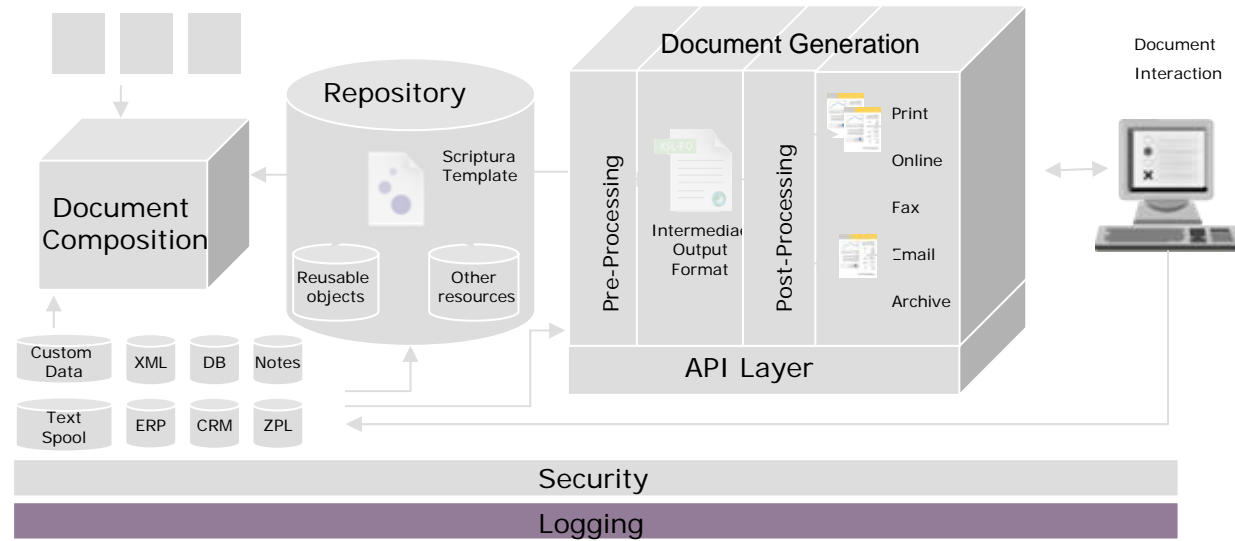
- Handles Forms
 - Communicates with Scriptura Forms Reader and Scriptura Forms Reader Applet
 - Client/Server validation
 - Automatic information capture in XML for easy processing by enterprise applications
- Users can edit documents before printing

Security



- Central Authentication and Authorization service
- Used on
 - Repository level
 - On Demand Service level
 - Document level
- System administrator can define
 - Users, Groups, Roles
 - Roles can be assigned to Users or Groups

Logging



- Document composition warnings
 - Scriptura Designer
 - Warning Panel
 - Diagnostic Panel
- Generation & Post Processing
 - Logfile contains generation and processing events, errors, completion messages, diagnostics

Some Scriptura Customers



Customer case: Dexia



- Second largest financial group in Belgium
 - 2.2 Million customers
 - 1200 offices throughout country
- Strategic project for Dexia
- Document types
 - Bank statements, contracts, reports, share-portfolio reports in color
- Performance & size
 - Handles 100.000 documents per hour
 - Data retrieval & document generation & printer starts: 125ms
 - 6 million page documents: 1 day generation, 1 week print

Customer case: Dexia



- Before Scriptura
 - Online document generation using MS Word
 - Batch generation using AFP application, on mainframe
 - Document 'programming'
 - Simple documents: 2 days
 - Medium documents: 5 days
 - Complex documents: 4 weeks
- Since Scriptura
 - One solution for all documents
 - All documents generated in HQ
 - Flexibility of hardware and OS
 - Document 'design':
 - Simple documents: 1-2 hours
 - Medium documents: 4-8 hours
 - Complex documents: 5 days
 - Designer training: 2x5 hours

Dexia Bank NV
Pachecolaan 44 - 1000 Brussel
Rekeningnummer 052-9006469-91
IBAN: BE23 0529 0064 6991 - BIC: GKCCBEBB
RPR Brussel BTW BE 0403.201.185
Verzekeringsagent CBFA nr. 19649 - MEZ 4944
Dexia Contact 02 222 12 02



fa34df10aac21480342dc3d5328caeaba75144bc

DEXIA BUSINESS ACCOUNT
068-2450039-40 EUR

INVENTIVE DISTRIBUTION
B V B A

DATUM : 02-10-2006

026138

BLZ. : 9/1

AGENTSCHAP : 026138

DATUM NR AARD VERRICHTING BEDRAG

SALDO OP 27-09-2006 EUR +17.607,31

28-09 0026 UW DOMICILIERING 053-2491608-20 VOOR KUWAIT
PETROLEUM BELGIUM - 106C153168 106L201652
REF. : 0081173328672 VAL. : 28-09 - 211,19

28-09 0027 DOSSIERKOSTEN TEN GEVOLGE VAN DE OPENSTELLING
VAN UW BEROEPSKREDIET NR. 071-3504614-65
REF. : 080499R001629 VAL. : 27-09 - 50,00



 **inventive**designers
making communication easy

Demonstration

Windows

A fatal exception 0E has occurred at 0028:C8300A313 in VXD VMM12301 001230121. The current application will be terminated.

- * Press any key to terminate the current application
- * Press CTRL+ALT+DEL again to restart your computer. You will lose any unsaved work in all applications.

Unique Selling Points

- One central solution for all output needs
 - Cfr. Suncorp: Scriptura replaced more than 40 different output solutions
- Move template design and document production from IT to business
 - Cfr. Acerta: They were looking for a very user-friendly, powerful and intuitive solution that required no programming
- Open standards
 - Cfr. Dexia: Open standards was required
- Multi-platform
 - Cfr. Princess Cruise Lines: Use one solution on all platforms



Print Symposium: XSL in print

Conclusion

Conclusion



- Without XSL, we wouldn't be able to create Scriptura