

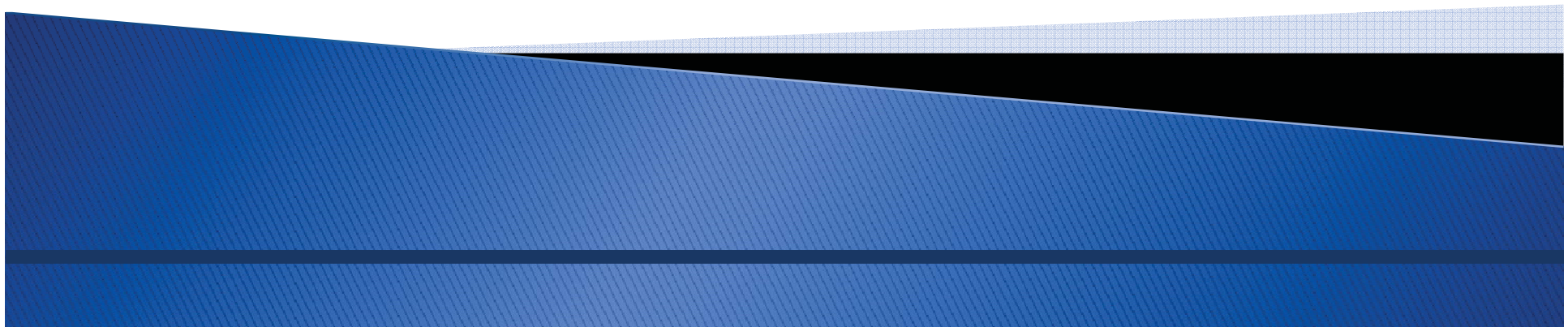


EIOPA XBRL Europe Seminar

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Data collection of Solvency II reports

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A few words about Invoke

An expert in regulatory reporting

- ▶ Software company with a team dedicated to monitoring regulatory developments
- ▶ Providing solutions to both supervisory bodies and filers

▶ Specialized expertise in international regulations

- ▶ Unique expertise in leveraging XBRL:
 - Founding member of XBRL France
 - Direct member of XBRL International
 - Actively involved in several working groups
 - Dedicated XBRL R&D team > 15 persons

▶ Unparalleled reactivity in adapting Invoke solutions to any taxonomy

Widely-used solutions

Solutions for supervisory bodies



Solutions for filers

Insurance companies



Banks

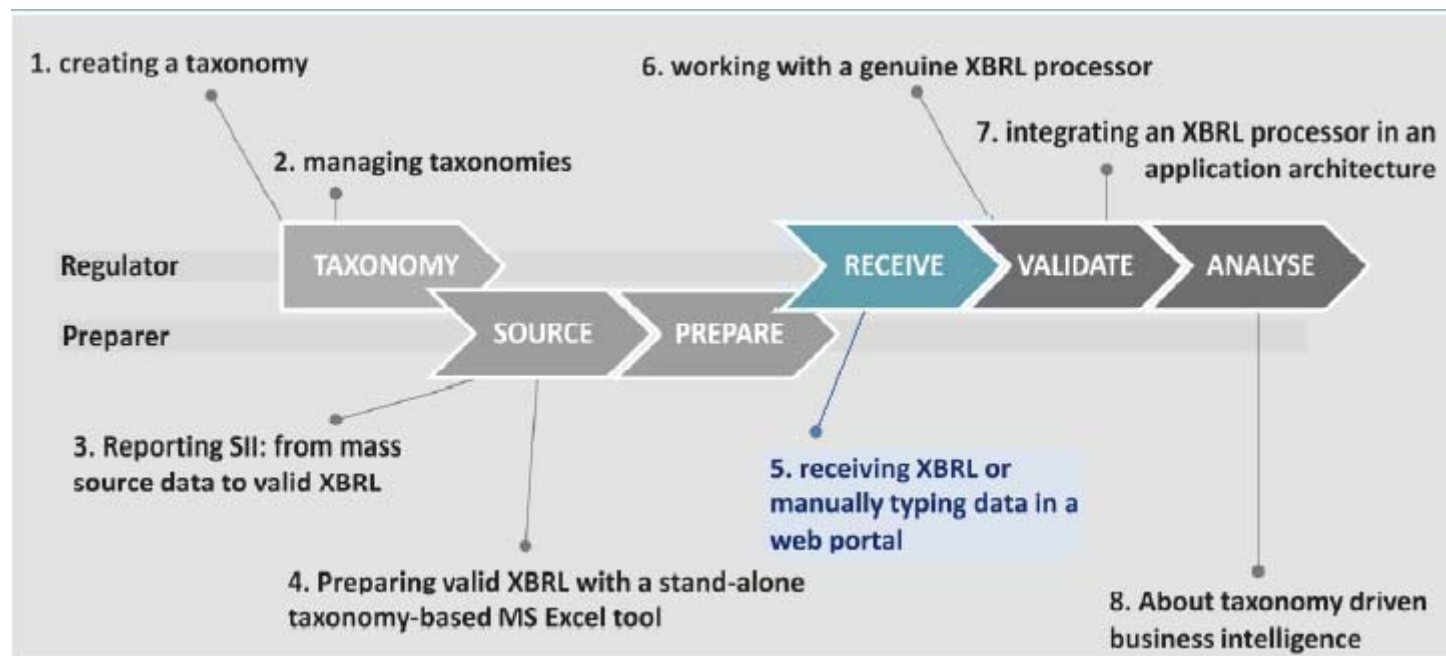


Tax reporting



Presentation n°5

- ▶ Live demonstration of receiving Solvency 2 reports



- ▶ Objective: to illustrate data collection from regulated entities, whether or not they have XBRL solutions

Solvency 2 data collection

Focus on the web filing portal

Insurance
company
IT System



Off-line completion

Solvency 2
reporting system

Excel to XBRL
offline converter

Online completion

Supervisor
IT System

Web filing portal

Data collection from regulated entities

Storage

Mass validation

Rendering

Customized analyses

Description of the demonstration

- ▶ **Taxonomy used:**
 - sample taxonomy provided with the technical consultation published by EIOPA in July 2011
 - + added XBRL assertion for online formulae validation
- ▶ **3 sample reports:**

Report	Technical characteristics
BS_C1: Balance Sheet	<ul style="list-style-type: none"> • Fixed structure
AS_D1: Investment portfolio	<ul style="list-style-type: none"> • Variable number of rows • Columns having restricted possible values (ID Code Type)
TP_NL_E3: Non-life insurance claims information	<ul style="list-style-type: none"> • Variable number of pages resulting from combination of many dimensions (Line of Business, currency...)

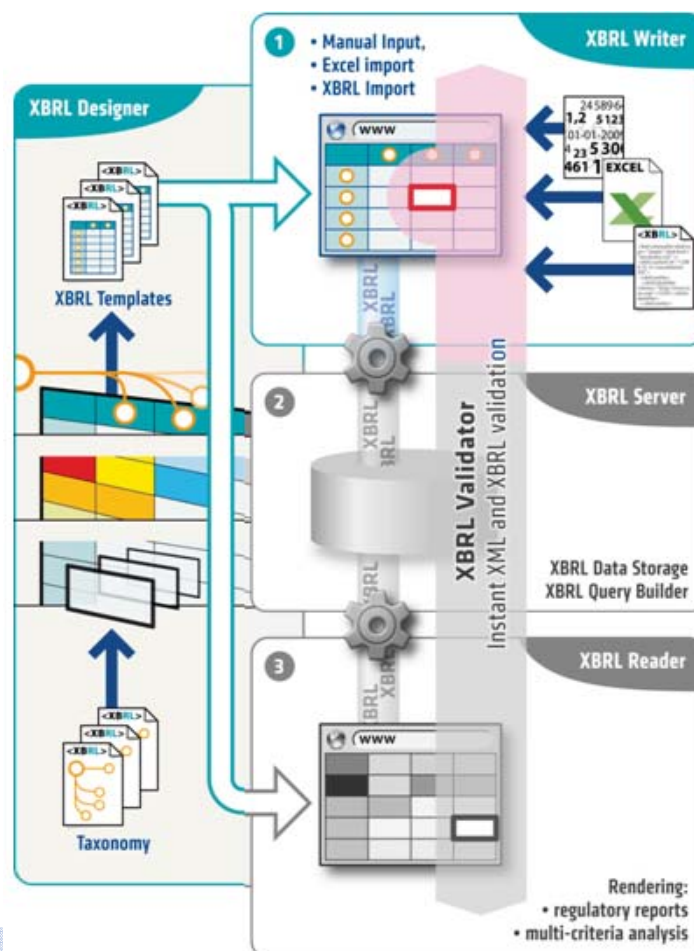
Description of the demonstration

1 - Configuration of the regulator web portal

Tool used:
XBRL Designer

Several steps:

- loading the taxonomy
- configuration of the template by drag-and-drop
- customizing it thanks to the features of the spreadsheet
- publication of the template on the web portal



2 – Data collection from regulated entities through the web portal

Tool used:
XBRL Writer + XBRL Validator (web version)

Several options:

- upload of existing XBRL instances
- manual data entry

Online validation to assist filers

Description of the demonstration

- Description of the added assertion for online formulae validation

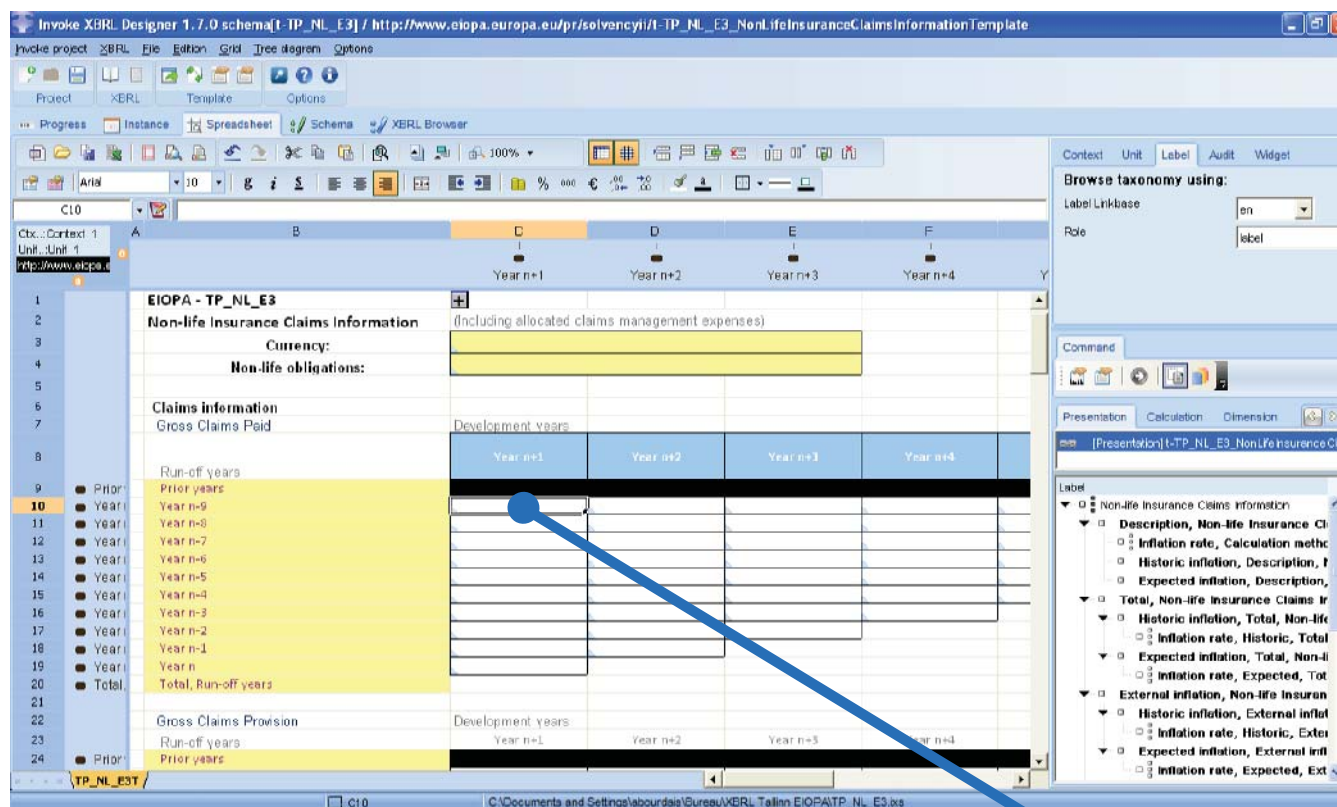
	A	B	C	D
1	BS_C1			
2	Balance sheet			
49				
50				
	Liabilities	Solvency II value	Statutory accounts value	
51				
52	Technical provisions – non-life (excluding health)	L1=L1A+L2+L3	LS1	
53	TP calculated as a whole	L1A		
54	Best Estimate	L2		
55	Risk margin	L3		
56	Technical provisions - health (similar to non-life)	L4=L4A+L5+L6	LS4	
57	TP calculated as a whole	L4A		
58	Rest Estimate	L5		

$$L1 = L1A + L2 + L3$$

```
<va:valueAssertion xlink:type="resource" implicitFiltering="true" aspectModel="dimensional"
test="abs(sum( ($BS_C1_L1, -$BS_C1_L1A, -$BS_C1_L2, -$BS_C1_L3))) le 0" id="BS_C1-L1" />
```

Live demonstration

1 – Configuration of the web portal (INVOKE XBRL Designer)



Sources	References	Attributes	Type
Title	Workbook	Sheet	Row
Context		Context 1	
Element			Gross claims
Unit		Unit 1 iso4217:EUR	
Decimals/Precision			
Currency (Dimension)		<d-sty:CurrencyDimensionElement>	<d-sty:CurrencyDimensionElement>
Development year (Dimension)			Year n+1
Run-off (Dimension)			Year n-9
Lines of business (Dimension)		Accident insurance, Non-life obligations	Accident insurance, Non-life obligations
Solo or group (Dimension)		Solo	Solo

Live demonstration

2 – Data collection through the web portal based on INVOKE XBRL Writer + Invoke XBRL Validator



INVOKE XBRL Suite - Demonstrati...

www.invokexbrl.com

Google INVOKE XBRL Suite - ... e-Regulatory INVOKE XBRL Suite - ... E-Filing ICM_WEB Solvabilité 2 Solvency2

home check save Excel import Demo INVOKE account logout

Assets - D1
Investments Data - Portfolio list (detailed list of investments) - annual

	Portfolio	Fund number	Asset held in unit linked and index linked funds (Y/N)	ID Code	ID Code type	Asset pledged as collateral	Security Title
	A1	A2	A3	A4	A5	A6	A7
00001	G	1195	N	XS0198059643	ISIN		ARN AMRO TV 24
00002	G	1195		XS0198059643	ISIN		ARN AMRO TV 24
00003	G	1195		XS0221082125	ISIN		ARN AMRO TV15 F
00004	G	1195	Y	FR0010101832	ISIN		FINA FONC TV24 J
00005	G	1195	N	FR0010108811	My Own Code		DEXIA TV 010919F
00006	G	1195	N	XS0221082125	ISIN		ARN AMRO TV15 F
00007	G	1195	N	XS0270531147	ISIN		BNPP TV16 EM
00008	G	1195	N	CAP1	ISIN		CAPC0620/CAP
00009	G	1195	N	CAP2	ISIN		CAPC0821/CAP
00010	G	1195	N	CAP3	ISIN		CAPC0518/CAP
00011	G	1195	N	CAP4	ISIN		CAPC0515/CAP
00012	G	1195	N	CAP5	ISIN		CAPC0520/CAP
00013	G	1195	N	FR0000124711	ISIN		UNIBAL-RODAMC
00014	G	1195	N	FR0000124711	ISIN		UNIBAL-RODAMC
00015	G	1193	N	FR0010878033	ISIN		AMUNDI ETF CAC
00016	G	1195	N	FR0007054358	ISIN		VALLOR ETF DJEUJ
00017	G	1195	N	FR0007056841	ISIN		VALLOR ETF DJEUJ
00018	G	1193	N	FR0010724641	ISIN		INDEXE PLUS FCP
00019	G	1195	N	FR0007054358	ISIN		VALLOR ETF DJEUJ

AS_D1 CXT

Label : Enumeration error : Choice [ISIN or CUSIP or SEDOL or SICOVAN or BBG_TICKER or RIC]

Description : Enumeration error : Choice [ISIN or CUSIP or SEDOL or SICOVAN or BBG_TICKER or RIC] Error on cell : sheet AS_D1, row 11, column H, with value : My Own Code

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Data collection - Conclusion

- ▶ Key benefits of a XBRL web filing portal
 - Reduced implementation and maintenance burden for regulated entities
 - Data controls driven by the taxonomy
 - Enhanced data quality and reliability
 - Potential free solution for small regulated entities
 - Greater ease of Solvency 2 adoption
 - Easy to adapt to other local reporting requirements



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