



28TH ASEAN+3 BOND MARKET FORUM (ABMF) MEETING AND RELEVANT MEETINGS

18-21 June 2018 / Seinan Gakuin University, Fukuoka City, Japan

DAY 4 - 21 JUNE 2018

VENUE: MULTI-PURPOSE FUNCTION ROOM, 1st Floor, Seinan Community Center

ASEAN+3 BOND MARKET FORUM (ABMF) – EXTENSIBLE BUSINESS REPORTING LANGUAGE (XBRL) JOINT ÁSIAN ROUNDTABLE

TIME	PROGRAM				
08:30 – 09:00	Registration				
09:00 - 09:10	Welcome remarks by XBRL Japan				
09:10 – 9:40	Session 1: "Exploring the Future – The Potential for an Asian Reporting Forum" by Mr. John Turner, CEO, XBRL International				
9:40 — 10:00	Session 2: "Digital Reporting: Enhancing Trust Across Boundaries" by Mr. Yoshiaki Wada, Chairman, XBRL Asian Round Table, NTT Data				
10:00-10:25	Session 3: "New Technologies, Standards and Data Collection" by Mr. Mark Montoya, Federal Deposit Insurance Corporation (FDIC)				
10:25-10:50	Session 4: "Future of Digital Reporting" by Mr. Mike Willis, Securities Exchange Commission (SEC)				
10:50 – 11:10	Coffee break				
11:10 – 11:50	Session 5: "Key Achievements in Data Collection in Asia" – Member Presentations.				
11:50 – 12:20	Session 6: "Enhanced Analysis for the 21 st Century - XBRL data analytics with AI", by XBRL Japan				
12:20 – 13:30	Lunch				
13:30 – 13:45	Session 7: "Construction and operation of XBRL for Non-financial information" by Mr. Hirokazu Sayama, Chief Engineer, NTT DATA SYSTEM TECHNOLOGIES				
13:45 – 14:15	Session 8: "Modernisation and Simplification of the XBRL Standards" Mr. John Turner, CEO XBRL International				

ASEAN+3 BOND MARKET FORUM (ABMF) – EXTENSIBLE BUSINESS REPORTING LANGUAGE (XBRL) JOINT ÁSIAN ROUNDTABLE							
TIME	PROGRAM						
14:15-14:45	Session 9: "The Importance of Collaboration in Central Bank Data Collection", Mr. Beju Shah, Bank of England						
14:45-15:05	Session 10: "Distributed Reporting: The European Financial Transparency Gateway" by Mr. Michal Piechocki, BR-AG						
15:05 – 15:30	Coffee break						
15:30 – 16:10	Session 11: "Opportunities for Collaboration: Cutting Implementation Costs and Improving Reporting in Asia" A Panel Discussion with ART Members						
16:10 – 16:45	Session 12: Vender's update (5minutes each \times 7 vendors)						
16:45 – 17:00	Session 13: "Next Steps In Collaboration for the Asian Round Table" by Mr Yoshiaka Wada						



Welcome remarks

June 2018 Chairman, XBRL Japan Kyosuke Wagai

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XBRL Asia Round Table (XART) and ABMF

- The XBRL Asia Roundtable is an official activities of XBRL International.
- It has played an important role as a venue to brings together XBRL experts, project leaders and national regulators from throughout Asia and neighbor countries to discuss topics of common interest, including project updates and regulatory developments.
- ADB has been playing an important role as a regional leader to enhance economic development in Asia.
- Asia Bond Market Forum (ABMF) is one of the example of such an activities to modernize Asia Bond Market, and XART started the collaboration with ADB to enhance efforts in both organizations.

XBRL members in Asia and Middle East

5 Jurisdictions and 14 Direct Members



ACRA: Accounting and Corporate Regulatory Authority ARDF: Accounting Research and Development Foundation BI: Bank Indonesia IDX: Indonesia Stock Exchange SSM: Companies Commission of Malaysia SCM: Securities Commission of Malaysia

In addition to above, other ASEAN countries including Thailand, Philippine, Cambodia, Lao P. D. R are also studying/planning to implement XBRL.

History of XART

- > 1st in Tokyo Japan, March 2010
- 2nd in Mumbai India, March 2011
- 3rd in Singapore, May 2012
- 4th in Suzhou China, May 2013

- 5th in Jakarta Indonesia, August
 2015
- 6th in Mumbai India, January 2016
- 7th in Singapore, November 2016



Today, we are here to join 9th XART in Fukuoka!

Remarks from Mr. Kyosuke Wagai, Chairman of XBRL Japan





EXPLORING THE POTENTIAL FOR AN ASIA REPORTING FORUM

XBRL ASIA ROUND TABLE IN CONJUNCTION WITH 28th ADB ASEAN+3 ABMF MEETING FUKUOKA, JAPAN, JUNE 2018

John Turner



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https://www.xbrl.org



TL;DR (TOO LONG; DIDN'T READ)



Maslow/Powell/Shah Hierarchy of Data Needs

Collaborate to Connect





Tomo-san's First Law of Fintech



Real Fintech is not Bitcoin!



Turner's First Law of xTech*

{x | S(x)}

All xTech requires Structured Data**!

* With thanks to Wada-san! ** Received or imputed



Data Amplified 2018

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2018 | the future of business reporting

Dubai 2018 13 - 15 November

XBRL

WHAT THE HECK IS XBRL?



Two key approaches...



Chief Executive's Strategic Report

Overview



Rephen Haddrill - Chief Executive

Our Mission

The FRC's Mission is to promote high quality Units reporting to foster investment. A secure flow or capitat markets, driven by high quality govern underpin the growth of our economy and our

Our work is designed to encourage the provis information to investors and to encourage true of companies and the professions. In addition confidence internationally in the UK regulatory governance and reporting.

Value The FRC's Mission is to promote high quality corporate governance and reporting to foster investment. A secure flow of investment into the UK's capital markets, driven by high quality governance and reporting, helps underpin the growth of our economy and our competitiveness.

bus:DescriptionPrincipalActivities

Period

· Highlight all tags

Line item

2014-04-01 to 2015-03-31

Table 1 - Investment and Credit Exposure

Smart Reports for human and machine readable reporting where formatting and content are flexible

Details of Investment and Credit Exposure	Counterparty Exposure				Provision		Sanction Limits	
	Government		Non- Government		Brought	Current	Funded	Non-
	Funded	Non- Funded	Funded	Non- Funded	Forward	Current	Funded	Funded
Investment	100		250		30	12	400	
Credit	150	25	450	100	70	20	700	300

Goal is always M2M!



Smart Templates where formatting and content are rigid (and usually multi-dimensional)

(Shhh....The secrets of our success)



ECOSYSTEM

FORMAL INTEROP

COLLABORATION

And... whisper it... flexibility in creating local definitions.



HOW CAN WE COLLABORATE TO CONNECT?



10,000Km Perspective...



Asia trade, commerce, environmental and human interconnections are vital and expanding.

Policy makers need to focus on those connections for the wealth and health of their economies and people.



1000Km Perspective...



Central Banks, Financial Regulators, Securities Regulators, Tax Authorities, Business Registrars... amongst others, need to foster connections to enhance trade, economic and human connections.

They need to be able to share more and more information.



500km perspective



Supply chains across Asia are complex and increasingly sophisticated.

They need to become more connected, fully digitised and there needs to be a host of ways to build more and more **trust** between trading entities.



5km perspective



Companies seek customers, suppliers and employees.

How do we know that this company is profitable, trustworthy and here for the long haul?

The only way we can find out is with better connections.

 Digital, comparable and *discoverable* data.



Think Regional, Not Just Local

Reporting is on the rise

Regulators, banks and companies rely on significant numbers of reports to meet a wide variety of requirements.

Interdependence needs trust

Reporting in Asia is national, when increasingly what matters is a regional perspective. Interdependence across Asia is extraordinary and growing.

Digitise Now

A significant number of countries in the region are digitising quickly. Many seek to "leapfrog", or "FFWD".



Inconsistent Regulation Costs

Financial & markets regulation

+ Add to myFT

Differences in financial regulation cost business \$780bn annually International Federation of Accountants

Report calls for more joined-up policymaking and increased global co-operation IFAC



When Banks ask for Standards..



Data Standardization - A Call To Action

Consistent application of financial data and reporting standards within and across jurisdictions remains an important unresolved legacy issue with risk management and financial stability implications. There is a need for the financial services industry, global regulators and other stakeholders to collaboratively build on their progress toward achieving a data standardization framework that addresses current deficiencies and allows innovative new technologies to be adopted. Establishing and implementing a common global language for financial instruments and transactions will create efficiency, reduce costs and result in the improved usability of financial data to create valuable information and manage systemic risk.



A **peek** at the Open Information Model

Later we'll hear about modernisation of the XBRL specifications and what that means for new and existing users.

For now – assume that XBRL is becoming easier to use, more accessible and more xTech friendly.

Critically, XBRL will facilitate simpler **comparison**, simpler **reuse** and inter-standard **interoperability**.

From XML to Choice of Format

From Static Files to Controlled Repositories

From report-centric processing to data-centric platforms

Today....

Reporting is in silos



And each silo is built from scratch in each country





Rethink for xTech....

Every country is building a digital version of each silo...

...which is expensive and slow...

... couldn't we collaborate to connect?

Inspiration?





Imagine itDigitalised







Plenty of help





Enhance comparability

- Design with interoperability in mind...
 - Use the **LEI**
 - Use ISO reference data
 - Re-use/Reflect existing definitions in related standards ISO20022 in particular



But Collaboration = Work!





Starting from fresh?

ASEAN+3 INSURANCE REPORTING FRAMEWORK

Localise Step 1 – Translation of taxonomy...

แปลป้ายกำกับที่มี อยู่เป็นภาษา ท้องถิ่น Localise Step 2 –

Extend for local laws and regulations Localise Step 3 –

Test and Pilot



Joining the club?

ASEAN+3 INSURANCE REPORTING FRAMEWORK

Localise Step 1 – Translation of taxonomy...

แปลป้ายกำกับที่มี อยู่เป็นภาษา ท้องถิ่น Localise Step 2 –

Conform, Connect, Reuse or Replace existing definitions Localise Step 3 –

Test and Pilot



Standardise to Connect!

Benefits of the Asia Reporting Forum

- 1. Greatly enhance **comparability** for aggregate data, for regulator interchange and for publicly available reports across the region.
- 2. Greatly **simplify reporting** for the regional players of today and tomorrow. **Lower the barriers** to regional expansion.
- 3. Do more with less: **lower the cost of implementation** significantly
- 4. Lower the overall cost of support required from international and regional development banks
- 5. Develop and expand a regional software ecosystem


Looking over the Horizon



- Expand trust through digital, comparable and discoverable data
- Shared library of definitions helps enhance trade and understanding
- Creates a regional competitive advantage through creation of ecosystem of capability amongst regulators and companies themselves.



TO SUM UP: COLLABORATE TO CONNECT!



Maslow/Powell/Shah Hierarchy of Data Needs

Collaborate to Connect





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2018 | the future of business reporting

Dubai 2018 13 - 15 November



Please debate the right way to consider feasibility. Please consider whether XART could, before long, become the Asia Reporting Forum!

Questions





Our purpose is to improve the accountability and transparency of business performance globally, by providing the open data exchange standard for business reporting.

Our standards are freely licensed. We operate in the public interest as a not-for-profit global consortium.



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Digital Reporting: Enhancing Trust Across Boundaries

Chairman, XBRL Asia Round Table NTT Data Corporation Yoshiaki Wada

Relation between ABMF and XART activities in the market



Major Risks around Financial Institutions



Financial Reporting Data/Business Flow



Financial Reporting Data/Business Flow



How to create the harmonized Data Flow?



Reality in actual Data Flow



Monitoring Period	Nature of Data	Popular Data Format	
Real Time	Simple, high speed, i.e. event-log	CSV, TEXT	
Daily	Slightly complicated, i.e. Transaction messaging	CSV, TEXT, XML	
Periodical	Complicated, low speed, i.e. reporting	XML, XBRL	
On-demand	Flexible structure, i.e. reporting	HTML, PDF, XML, XBRL, Excel	

	Monitoring Period	Nature of Data	Popular Data Format			
For high speed & simple data, CSV, TEXT is suitable						
	Daily	Slightly complicated, i.e. Transaction messaging	CSV, TEXT, XML			
For messaging, complicated structured report, XML and XBRL is suitable						
	On-demand	Flexible structure, i.e. reporting	HIML, PDF, XML, XBKL, Excel			



Financial Institutions

Regulators

Regtech Automation with XBRL

How to make report efficiently? How to analyze report efficiently?

NTTDATA

Feature of XBRL (eXtensible Business Reporting Language)



NTTDATA

XBRL is the only technology that conveys data value and its attributes/structure information in the separate files.

It needs a little bit complicated data generation and reading process, but makes unique features possible.

This also contributes to realize the automation on Regulatory Reporting Business Flow.

Standardization of reporting/messaging form (1)

For the smooth data exchange, reporting/messaging form, template and rule should be standardized and stable.

Then most data format can work efficiently.



NTTDATA

In the real world, reporting requirement is always changing, reflecting the changes in accounting rules, regulatory rules and financial conditions, etc.

Therefore, regulatory reporting form is also changing regularly or irregularly.

This causes difficulty to operate the actual reporting

NTTDA

Standardization of reporting/messaging form (2)

If any filer uses different reporting/messaging form or rule, and that is not informed to receiver, what will happen?



NTTDATA

Standardization of reporting/messaging form (3)

If any filer uses different reporting/messaging form or rule, and that is not informed to receiver, what will happen?



NTTDATA

Image of automated regulatory reporting flow



Image of automated regulatory reporting flow



For the efficient and transparent regulatory framework, combination of optimal data format and standardization of report form/template is essential.

On the other hand, there is no reporting free from changes in form/template.

Therefore, it is particularly important to design the stable and standardized reporting form/rule, and choose the suitable data format which enables robust data supply chain.

Combination of well standardized/structured form and XBRL could contribute to the efficient data supply chain with automated

Thank you for your attention!





Data Collection and New Technology

Mark Montoya Chief, Data Strategy Division of Insurance and Research U.S. Federal Deposit Insurance Corporation

Outline

- Background on the FDIC's XBRL project
- Key parts of the XBRL system
- Data validation
- Reportability rules
- Current status
- New technology

Background on the FDIC's XBRL Project

- The U.S. Federal Financial Institutions Examination Council (FFIEC) Central Data Repository (CDR)
 - 3 U.S. federal financial regulatory agencies
 - Reports of Condition and Income for Banks with Domestic Offices (and Foreign Offices)
 - Also known as the "Call Report"
 - Uniform Bank Performance Report
 - Summary of Deposits Survey

What is the Call Report?

- Structured financial report
 - Balance sheet and income statement
 - Sub schedules
- No report extensions
 - Bank cannot add to additional financial items
- Explicit instructions
 - Defined set of guidance
 -Bank and analyst correspondence

Key Parts of the XBRL System

- The Central Data Repository uses XBRL for:
 - Meta data exchange
 - Data collection
 - Data validation
 - Data publication

Call Report and Meta data

Consolidated Report of Income for the period January 1, 2017–September 30 2017

RI-Schedule RI - Income Statement

Schedule RI—Income Statement

	1 Interest income:		
Do	1a Interest and fee income on loans: Formul		a (Valid)
1. Interest income:		(
a. Interest and fee income on loans:	1a1 Loans secured by real estate:	(cc:RIA	D4435[P0] >= 0)
(1) Loans secured by real estate:			
(a) Loans secured by 1–4 family residential properties	Tara Loans secured by 1-4 family residential properties		RIAD4435
(b) All other loans secured by real Line 1a1a			
(2) Commercial and industrial loans			
(a) Credit cards			RIAD4436
(a) Oferic Carus	t food, and similar charges lovied against or		
(b) Other (includes revolving credit Report all Interes	i, lees, and similar charges levied against of		
(4) Not applicable associated with a	Il loans secured by 1-4 family residential		RIAD4012
(5) All other loans ¹	nestic offices) reportable in Schedule RC C, part L		
(6) Total interest and fee income on lo	nestic onices) reportable in Schedule No-o, part i,		
b. Income from lease financing receivable item 1.c, column	B.	vpondituros:	
c. Interest income on balances due from		xperiorures.	
d. Interest and dividend income on securities:	1a3a Credit cards		
(1) U.S. Treasury securities and U.S. Government agency obligation	tic		RIADD-100
(excluding mortgage-backed securities)			
(2) Mortgage-backed securities	1a2b Other (includes reveluing gradit plane other than gradit garde	automobile leans, and other	B14 B B 100
(3) All other securities (includes securities issued by states and p		, automobile loans, and other	RIADB486
subdivisions in the U.S.)	consumer loans)		
e. Not applicable			
 Interest income on federal funds sold and securities purchased under 	r 1a4 Not applicable		
g. Other interest income	1aE All other leans		
h. Total interest income (sum of items 1.a.(6) through 1.g)			RIAD4058
2. Interest expense:			
 a. Interest on deposits: (1) Transaction associate (interest begring demond deposite NO) 			
 Iransaction accounts (interest-bearing demand deposits, NO) and telephone and presutherized transfer accounts) 	saction accounts (interest-bearing demand deposits, NOW 1a6 Total interest and fee income on loans (sum of items 1.a.(1)(a) through 1.a.(5))		RIAD4010
(2) Nontransaction accounts:			
(2) Nontransaction accounts.			
(a) Savings deposits (includes MiMDAs)	1b Income from lease financing receivables		RIAD4065
(c) Time deposits of more than \$250,000	···		
b. Expense of federal funds purchased and securities sold under an	n		
 Expense of rederal lighting and other hereway menous 	de Interest income en helensee due frem desectors institutions		
Data collection and validation



Data Publication

Federal Financial Institutions Examination Council



Consolidated Reports of Condition and In Domestic Offices Only and Total Assets L 051

Institution Name	BANK OF COMMERCE
City	STILWELL
State	ОК
Zip Code	74960
Call Report Report Date	6/30/2017
Report Type	051
RSSD-ID	322850
FDIC Certificate Number	422
OCC Charter Number	0
ABA Routing Number	103112507
Last updated on	8/3/2017

Board of Governors of the Federal Reserve System Federal Deposit Insurance Corporation

Schedule RI - Income Statement

Dollar amounts in thousands	
1. Interest income:	
a. Interest and fee income on loans:	
1. Loans secured by real estate:	
a. Loans secured by 1-4 family residential properties	RIAD4435
b. All other loans secured by real estate	RIAD4436
2. Commercial and industrial loans	RIAD4012
3. Loans to individuals for household, family, and other personal expenditures:	
a. Credit cards	RIADB485
b. Other (includes revolving credit plans other than credit cards, automobile loans, and other consumer loans)	RIADB486
4. Not applicable	
5. All other loans ¹	RIAD4058
6. Total interest and fee income on loans (sum of items 1.a.(1)(a) through 1.a.(5))	RIAD4010
b. Income from lease financing receivables	RIAD4065
c. Interest income on balances due from depository institutions ²	RIAD4115
d. Interest and dividend income on securities:	
1. U.S. Treasury securities and U.S. Government agency obligations (excluding mortgage-backed securities).	RIADB488
2. Mortgage-backed securities	RIADB489
3. All other securities (includes securities issued by states and political subdivisions in the U.S.)	RIAD4060
e. Not applicable	
f. Interest income on federal funds sold and securities purchased under agreements to resell	RIAD4020
g. Other interest income	RIAD4518
h. Total interest income (sum of items 1.a.(6) through 1.g)	RIAD4107

Data Validation

- Data quality checks
 - Validity
 - Quality
- Reportability rules
 - Based on prior and current bank financial and structure information
- Same data validation criteria
 - Vendor software
 - Central Data Repository XBRL system

Reportability Rules

- Meta data driven
 - Analysts can change collection requirements without system or application updates
- Adapt to quarterly financial report changes
 - Analysts can create a single formula for multiple financial reports

Reportability Questions

Section 1 - Values for Boolean Concepts used in Re	eportal	ability Rules
		Concept V: 031-Base Level (Banks with Foreign Offices):
1 New Bank Start-up or Merger During Last Quarter (RCONA901)	6	RCONA901 (IBFEverThisYear = true Or EdgeEverThisYear = true
2 IBF Open At Any Time During Calendar Year (RCONC587)	6	Or FrgnOfficeEverThisYear= true)
'(ExistingOf(IBFEverThisYear, false) = true	OR Exis	<pre>distingOf(EdgeEverThisYear, false) = true OR ExistingOf(FrgnOfficeEverThisYear, false) = true)'</pre>
3 Edge/Agreement Sub Open At Any Time Formula (Valid)	_	
(ExistingOf(cc:RCONC587[P0], false) = tr	rue OR E	ExistingOf(cc:RCONC588[P0], false) = true OR ExistingOf(cc:RCONC590[P0], false) = true)
4 Ever Report as Medium Bank with Assets Over \$100 Million (RCONC593)	6	RCONC593 true
5 Ever Report as Large Bank with Assets Over \$300 Million (RCONC592)	6	RCONC592
6 Ever Report as a \$ Billion Bank with Assets Over \$1 billion (RCONC885)	6	RCONC885 false
7 Ever Report as a \$10 Billion Bank with Assets Over \$10 billion (RCONG288)	6	
8 Foreign Office Open At Any Time During Calendar Year (RCONC590)		Restricted RCONC590
		false
9 Credit Card Bank (RCONC695)		Restricted RCONC695
		false
10 Schedule RC-P Question (RCONF265)	6	Restricted RCONF265
		0
11 Schedule RC-Q Question (RCONF266)	6	RCONF266

Current Status



Current Status

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File Exam Management Asset Revie	Conduct Exam Review															?
Work Exam Papers Documents Documents Institut	blders DOE Page Settings Violations SAER ON Violations SAER	Upload IT Customer List IT	bmit for Ema Review Review EIC Ex	il Upl rers am Close-	oad Document Save List											
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🔺 🔯 My Files							(5	5				
Create new folder			View	(Jniforn	n Ban	k Pe	rforma	nce R	epoi	rt					
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Each year the FDIC collects data as of June 30 for all domestic branches of FDIC-insured institutions. The resulting Summary of Deposits (SOD) is a valuable resource for analyzing deposit-gathering and branching trends. This *Hot Topics* article highlights the following five key findings from the 2016 SOD, focusing on year-over-year changes in domestic deposits and domestic branch locations:

1. Deposits increased while the number of banks decreased. Total deposits at all domestic branches grew to \$11.27 trillion from \$10.66 trillion between June 2015 and June 2016, a 5.7 percent increase. Deposits have increased every year since 1995. The number of banks decreased to 6,068 from 6,358, which continues a trend toward greater consolidation in banking that began in the 1980s. The ten largest banks in the nation by asset size now hold 46 percent of deposits. Of the \$611 billion increase in deposits, \$224 billion, or 37 percent, occurred in branches of the ten largest banks. However, the ten largest banks experienced 4.5 percent growth in deposits while all other banks experienced 6.8 percent growth in deposits. Every FDIC Region in the nation had an increase in deposits (Map 1). The San Francisco Region had the largest total increase in deposits, with a \$170 billion increase. The Chicago Region had the smallest total increase in deposits, with an increase of \$52 billion.

Map 2

Deposits Increased in All Regions Branch Locations Decreased in All Regions Kansas City New York Kansas City New York San Francisco +8.1% +4.9% San Francisco -0.4% -1.8% Chicago +7.5% Chicago -1.7% +4.0% -1.9% Atlanta Atlanta Dallas +5.6% Dallas -1.8% +4.7% -1.0%

Map 1

Source: FDIC Analysis of the 2015 and 2016 Summary of Deposits survey data.

2. The total number of branch locations decreased. The total number of branch locations decreased to 91,861 from 93,273, a 1.5 percent decrease. The number of branch locations increased every year between 1996 and 2009, but has decreased every year since then. Every FDIC supervisory region in the nation lost branches, but the differences in percentage decline between regions were slight (Map 2). The Kansas City Region

- The use of Blockchain technology
 - Central finance reporting (70% cost savings)
 - Business operations (50% cost savings)
 - Centralized operations (50% cost savings)
 - Compliance (30-50% cost savings)

Use Case:

- \$100 million bank
- 27 employees, three branches, and a loan production office
- Bank established for more than 100 years
- Significant internal turnover every year when there is a new exam
- Traditional problems include:
 - Internal routines and controls issues
 - Timely filing of Call Report
 - Poor Call Report workpapers
 - o Reconcilements that lack dual controls
 - o No supporting documentation missing documentation to support reconcilements.
 - Transactions fall off core system after 2 years and are stored in backup files
- CFO has been at the bank for 14 months. CFO tries to rely on employees for reconcilements however;
 - Turnover of support staff hinders accuracy
 - Have to continuously train someone
 - Trying to find a way to create separation of duties
 - Bills and checks being handled by different departments

Potential Benefits of a DLT

- 1. Accounts Receivables / Accounts Payables
 - a. Use a DLT to establish procedures, approval and tracking from when a bill is received to when a bill is paid
 - i. Invoice comes in, added to DLT with specific public key and that corresponds with invoice number. Bill digitally scanned and stored on server outside of DLT
 - ii. CFO is notified when it is recorded, reviews details on DLT, approves or rejects on DLT.
 - iii. Another employee received CFO information, cuts check based on CFO approval, records check number with public key and invoice number.
 - b. Process establishes dual controls, confirms check has been paid, and then pulls into bank's core system with the amount, that gets rolled into GL and eventually Call Report based on coding on the front end.
 - c. Regulators/Auditors could review DLT and core system to confirm recordation and what bill was for. Would not create additional work for CFO to document workpapers

- 2. Call Report
 - a. CFO spends two full days working on Call Report, in addition to time throughout the quarter organizing and documenting transactions
 - b. Directors require their approval for the Call Report prior to submission
 - c. DLT Could:
 - i. Provide directors public / private keys to ensure approval when Board meetings do not take place in a timely fashion and provide a recordation of approval
 - ii. Centralize recordkeeping and documentation that transactions occurred
 - iii. Used for workpaper documentation
 - iv. Provide tracking for different employees who entered in transactions
 - d. Must establish proper coding on front end, and establishing proper controls of keys and user access.
 - e. May result in need to not file call report but provide transparency to DLT.
- 3. ATM/Vault User Access Controls
 - a. More research is needed; maybe operate similar to AirBNB research.

- Financial Institutions
 - Banks need to adopt new technologies that promise cost and time efficiencies by reducing effort involved in call report data collection and consolidation.
 - Banks need to **minimize operational costs in call report formation** by introducing smart contracts that are self-executing and interact with both internal and external systems like banks, regulators, market etc.
- Regulators
 - Regulators need to **simplify the reporting burden of banks** by introducing smart contracts for verification of data as entered by the banks.
 - Regulators need to **receive call report data more frequently** so that they can make timely and appropriate business decisions on the financial health of a bank and/or financial institution.
 - Regulators need to **address change requests effectively** that can be communicated to the banks.





- Establish a workshop with the FFIEC agencies and select banks to understand pain points in regulatory report collection, maintenance and consolidation.
- Develop a proof of concept to validate key technical challenges.
- Establish a working group to work through the process changes with the banks, vendors and agencies.

Thank you!

Mark Montoya Chief, Data Strategy Division of Insurance and Research U.S. Federal Deposit Insurance Corporation Email : <u>mmontoya@fdic.gov</u> Office : +1.703.254.0225

How is the SEC using structured disclosures to enhance analytical capabilities and insights?

June 20, 2018

STRUCTURED REPORTING AT THE SEC





Mike Willis

ASSISTANT DIRECTOR OFFICE OF STRUCTURED DISCLOSURE DIVISION OF ECONOMIC AND RISK ANALYSIS U.S. SECURITIES AND EXCHANGE COMMISSION



Protecting Investors | Maintaining Market Integrity | Facilitating Capital Formation

Disclaimer

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Discussion Topics

- Statistics
- Analytical Enhancements
- Inline XBRL Open Source Viewer
- Reporting using IFRS Taxonomy
- Resources

Statistics on Structured Data

- As of Early May 2018:
 - Over 190 million elements
 - Over 460 Inline XBRL filings submitted
- As of March 31, 2018:
 - Over 6,800 filers submitted XBRL exhibits for fiscal year 2017, using the U.S. GAAP Taxonomy.

Structured Data Insights

Who is using the structured data?



Structured Data Insights

- 100% of the Registrants
- 100% of the Financial Statement Disclosures
- Data Aggregation of <u>Note</u> disclosures
 - Unremitted foreign earnings across all filers
 - Months vs. minutes
- Targeted text analytics
- Fill in the blanks of this common phrase:
 - "The _____" is in the _____"

Financial Statement and Notes Data Sets

The Financial Statement and Notes Data Sets provide the text and detailed numeric information from all financial statements and their notes. This data is extracted from exhibits to corporate financial reports filed with the Commission using eXtensible **Business Reporting** Language (XBRL).

Financial Statement and Notes Data Sets

January 2009 - April 2018





Corporate Issuer Risk Assessment (CIRA)

- Analytical tool: provides detailed information on various aspects of a company's business activities and financial reporting environment
- Dashboard: enables the user to search, compare and analyze a variety of information about companies through a single intuitive visual interface
- Identify patterns: Helps users assess the risks associated with financial reporting with more than 200 variables for thousands of SEC registrants across multiple years
- Approach: Based on database approaches used by academic financial accountants and large sample evidence documented in academic literature
- Data sources: Uses a variety of structured data.

Financial Statement Query Viewer (FSQV)

- Intuitive, quick and easy-to-use web browser interface.
- Search and review filings and **all** facts across **all** filers in ways not previously possible.
- Potential staff uses include:
 - Search using various criteria (e.g., CIK, ticker, industry, filer status, country).
 - Search by Fact (e.g. specific disclosure type and/or specific taxonomy element)
 - Search by Text (e.g. any text within a narrative disclosure)
 - Compare footnote narrative text differences between periods (e.g. 'red-line' changes).
 - Save all results and searches locally for further analysis and reuse.

Inline XBRL

	Filing	Balance as of December 31, 2008
EN Division		\$ 77
M Division		577
L Division	V	- 555
ME Division		3,132
MP Division	and to the providence of the p	419
lora s-gaap:Prop Vor us-gaap Prop us-gaap ing aco us-gaap:Coo ranslatic o:Inta We he s uar a ning a unting pu	ulatedDepreciationDe ertyPlantAndEquipment in Stant in Equipment in Stant in Equipment in Stant in Equipment in Stant in Equipment in Stant in Equipment contextRef="fy101 company with dwill contextRef="fy101 company with dwill contex	\$ 7,777,777 ected to be deductible for detailed analyses are con in this timeframe will chan justments and other" in the eporting unit level using a the date

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Inline XBRL Viewer

- Single document structure actual filing rather than a separate copy (attachment) to the filing
- Familiar View within financial statement browser view to review structured data
- Enhancing Review search and filter filing by keyword or concept (e.g., FASB references)
- Navigation use Table of Contents to quickly jump to financial statements and footnotes
- Improving Data Quality
 - Assist staff reviews (e.g., identify mislabeled or untagged information)
 - Eliminate the need to reconcile 2 different documents (HTML and XBRL)

Inline XBRL Viewer Video

https://www.sec.gov/structureddata/osd-inline-xbrl.html



Reporting using the IFRS Taxonomy

- On March 1, 2017 the Commission provided <u>notice</u> that the International Financial Reporting Standards ("IFRS") <u>Taxonomy</u> was available on the Commission's website.
- One has already voluntarily filed using Inline XBRL

FPIs and IFRS Filings

- Characteristics of FPIs
- Initial Observations on IFRS filings

Frotecting Investors Maintaining Market Integrity Facilitating Capital Formation

Thank you!

Appendix: Resources for More Information

- Information on Structured Data
- Inline XBRL
- IFRS Standards and Electronic Reporting
- <u>Staff Observations on Interactive Data Quality</u>
- If you have Technical Questions on Structured Data: <u>StructuredData@sec.gov</u>
- If you have <u>Questions on Interactive Data Rule and</u> <u>Compliance</u> (select Office of Chief Counsel):
- <u>Sign-up</u> to Receive Emails from the Office of Structured Disclosure
- SEC DERA Twitter: <u>@SEC_DERA</u>

Appendix: SEC Structured Data Updates

- 2018 US GAAP Financial Reporting Taxonomy <u>https://www.sec.gov/info/edgar/edgartaxonomies.shtml#U</u> <u>SGAAP2018</u>
- SEC Reporting Taxonomy <u>https://www.sec.gov/info/edgar/edgartaxonomies.shtml#S</u> <u>RT2018</u>
- IFRS Taxonomy <u>https://www.sec.gov/info/edgar/edgartaxonomies.shtml</u>
- 2018 SEC Taxonomy Updates:
 - DEI
 - Exchanges
 - State and Provinces
 - Risk-Return
 - Units
 - Release notes: <u>https://xbrl.sec.gov/doc/releasenotes-2018.pdf</u>

Appendix: IFRS Taxonomy

- <u>Commission Notice of Availability of the IFRS Taxonomy (March 1, 2017)</u>
- EDGAR Release 17.3.1 on October 2, 2017 added the IFRS Taxonomy 2017 to SEC accepted taxonomies
- EDGAR Release 18.1 on March 12, 2018 enabled filers to use the 2018 U.S. GAAP Financial Reporting Taxonomy and 2018 SEC Reporting Taxonomy in EDGAR filings
- More information on SEC implementation
 - FAQs on IFRS Taxonomy
- Webinars with XBRL-US
 - January 31, 2018: "XBRL Tagging in IFRS":
 - <u>August 23, 2017</u>: "IFRS Taxonomy Deep Dive II: SEC Notice & Taxonomy Review for XBRL Providers & Data Users"
 - July 11, 2017: "IFRS Taxonomy Deep Dive: SEC Notice & Taxonomy Review for XBRL Providers & Data Users"
 - <u>May 8, 2017</u>: "SEC & IFRS Taxonomy: Implications for FPIs, XBRL Providers & Data Users (session II)"
 - <u>April 5, 2017</u>: "SEC Notice on IFRS Taxonomy: What It Means for FPIs, XBRL Providers & Data Users"


XBRL IN TAIWAN CAPITAL MARKET

Dr. Albert Chou CEO, XBRL Taiwan Vice President, Taiwan Stock Exchange

August 20, 2015

TXT fixed format financial reporting

A013999098021XXXA013999098021000A023999098024000A023999098024100A03399909802DDDDA03399909802EEEE

+00000212345677+00000003235435 +00000075465135+00000000433427 +00000212345677+00000003235435 +00000075465135+00000000433427 +00000043356757+00000000973533 +00000043576753+00000001233573

- A01 :Statement (3 bytes)
- 3999 :Company code (6 Bytes)
- **09802 : Year and Quarter (5 bytes)**
- **1XXX** :Accounting item code (6 bytes)

+000000212345677:current year amount (16bytes, include sign) +00000003235435:prevous year amount (16bytes, include sign)

> Self-define Format, not applicable globally





Initial Steps

• Sep 2010	Mandatory GAAP Filing (ROC- GAAP) • 1,562 individual F/S • 1.384 consolidated F/S
• May 2012	 Mandatory IFRS Filing (TW-IFRS) Around 2,324 listing and public offering companies filings All required tables in Footnotes(2014)
• Sep 2018	Q1) Inline XBRL • 2018Q3 Pilot • 2019 Mandatory

Extension Polices

Companies request	 Reflecting the business activities 		
Committee	 Public hearings: Taxonomy Questionnaires: Implementation schedule		
reviewing	Filing tools		
Publishing & education	 Seminars . E-learning systems Training sessions . Demo site 		
Universal	 Over 2000 listing and public offering		
applying	companies.		



Market Observation Post System MOPS XBRL Financial Reports Filing and Query System



XBRL Filing Flow

Preparation

- Use TWSE XBRL Tool (95%) create instance.
- Instance generated by CPA firms. 5% (ex. PWC, Deloitte)

Filing (UpLoading)

Electronic Filing

System : one of the MOPS subsystem. Regulated by FSC and TWSE.

Query

- MOPS disclosure system.
- Auto-push services for subscriber. (ex. Bloomberg, Morning Star, TEJ)



XBRL Financial Report Query

公開資訊觀測站 財務比較 已點通 ※

□ 網站使用說明









動動滑鼠點一點,圖像資訊立即現,財務比較快-易-通-

http://mopsfin.twse.com.tw/











XBRL Road Map

竭誠為您服務

- Develop XBRL into different arena. Build XBRL data as resources of National Block Chain project.
- CPA External confirmation pilot project will launch July 2018.
- CSR reporting in XBRL format.



竭誠為您服務

Thank You for Your Listening !





INTRODUCTION TO MALAYSIAN BUSINESS REPORTING SYSTEM (MBRS)

Farid Ahmad Director of Marketing & Business Development Division Companies Commission of Malaysia

INTRODUCTION TO MBRS





Malaysian Business Reporting System (MBRS) is a submission platform based on the eXtensible Business Reporting Language (XBRL) format.

MBRS allows for the submission of:

- Financial Statements and Reports (FS);
- Annual Return (AR); and
- Exemption Applications (EA) which are related to the FS and AR applications.

REASONS FOR XBRL ADOPTION

- 1) Reduce time and cost of gathering financial and non-financial information, savings on data entry efforts and conversion of data formatting due to less human intervention.
- 2) Facilitate the analysis of financial reports for decision making (stakeholders).
- 3) The move to XBRL will provide SSM and other regulators with detailed data which can be aggregated and aid investigative efforts and other compliance.

COMPONENTS OF MBRS



4











Portal (mPortal)	

COMPONENTS OF MBRS



MBRS FIRST COMPONENT

SSM Taxonomy 2017 (SSMxT 2017)



SCOPE OF SSMxT 2017



- 1) Annual Return;
- 2) Financial Statements; and
- 3) Exemption Applications (EA) which are related to the FS and AR applications.

6

19

SSM TAXONOMY SSMxT 2017 CONSULTATION PROCESS



SSM TAXONOMY SSMxT 2017 CONSULTATION PROCESS



a, 290 cial Porta eXtensible Business Reporting Language (XBRL) Surulianjaya Syanikat Nalaysia (35M) is currantly reviewing the previous 35M taxonomy 2012 (35MT 2012) based on the eXtensible Susiness Reporting Language (XSRL) format. As part of the process, SSM will conduct an external consultation on the reporting concepts or elements for SSM axionomy 2017 (SSMKT 2017) templates which have been developed based on the financial and non-finances as follows: 1. Companies Act 2016 (CA 2016); . Applying appropriate financial statements framework other using : a. Malaysian Private Entities Reporting Standards (MPERS) for private company that - Is not itself resulted to present or todge any financial statements under any law administend by the Securities Commission Habitysia or Bank happen Makayas, and Is not a subsidiary or associate of, or jointly controlled by, an entity which is required to prepare or looge any financial statements under any law administered by the Securities Commission Makaysia or Bank Negara Malaysia or b. Malavsian Financial Reporting Standards (NFRS) for public company. Consultative Document The following document shall explain about the objectives, overview and the explanatory notes of the SSM's SSM's Consultative Document on the XBRL Reporting Concept or Elements While the breakdowns of the SSMxT 2017 templates are as follows: Name of the Taxonomy Templete No. Name of the Taxonomy Tamplete & Pinancial Statement (PS) taxonomy tamplete Nor public or private comparise units (NTRS frammore) to propo franceal allocationness along with CA 2015 deviationariss. Are private comparison using NTRSS frammore's to propose franceal statements along with CA 2015 deviationaris. Per Company Limited by Guarantes (CLBS) using NTRS frammore's to propose framework addeministration with CA 2015 deviationary. MPRS Taxonomy Template_v1.10_14thJuly2017 MPERS TexanomyTemplate v1.6 17thJuly2017 3 CLBG Taxonomy Templets_v1.8_1903uly2017 framework to progress finances along with CA 2018 dealbasers. Semeans to logic excitations for exempt private sampany as per diselence in CA 2018. Are foreign exempants to fill file the Educative Declaration as per CA 2018, after their EA3 application has been approved by the Regelore. 4 EPC TexenomyTemplate v1.4 21stJuly2017 5 PC_Texonomy Template_v1.5_21stDuly2017 5 Key Fin After application under EA2 has been approved, the public or private company may lodge K73 using M783 framework along with CA 2016 disclosures. After application under EA2 has been approved, the private company may lodge K7 using M7858 framework along with CA 6 KFI_MFRS_TexonomyTemplate_v1.7_170July2017 KFI MPERS TexpnemyTemplate v1.7 17th/ulv2011 2016 disclosures 2016 disclosures After application under BA2 has been approved, CLBG may lodge 5 KP1_CLSG_TaxonomyTomplate_v1.7_17thJuly2017 KF1 using MPRS framework along with CA 2016 diadeaures After application under EA2 has been approved, foreign eor may lodge KF1 using MPRS framework along with CA 2016 dadesures C Down tion Application (PA) terror mplete For companies to file their application for exemptions or wak-per CA 2016. This process is only permissible for FS and AR related evolutions. 10 EA TexonomyTempleterv1.7-21thJuly2017 D Annual Raturn (AR) taxonomy templete 1_TexonomyTemplate-v1.9-24thJuly2013 r companies having share capital to lodge AR as per CA 2018 r companies not having share capital to lodge AR as per CA 12 AR2 TexonomyTemplatery1.9-24thJuly2017 2018 For foreign companies to lodge AR as per CA 2018 For companies to lodge AR as per CA 2016 in cases where there are no changes in perioulars since the previous AR lodge with 13 AR3_TaxonomyTemplate-v1.9-24thApril2017 14 AR4_TaxonomyTemplate-v1.9-24thouly2017 3314 welcomes views and comments on whether the identified concepts described were elearly understood or reflecting the

7 - Utusan Malaysia -Wednesday, 06 September 2017

SSM perkenal sistem pemfailan elektronik

KUALA LUMPUR 5 Sept. - Suruhanjaya Syarikat Malaysia (SSM) bakal menggunakan sistem pemfailan elektronik secara berperingkat di bawah Akta Syarikat 2016 yang diperkenalkan pada 31 Januari lalu.

Agensi itu dalam satu kenyataan berkata, syarikat yang ditubuhkan di bawah akta tersebut boleh melakukan pemfailan secara elektronik bagi maklumat penyata kewangan dan penyata tahunan bermula suku pertama 2018.

Katanya, sistemelektronik itu akan menggunakan format Extensible Businees Reporting Languange (XBRL) iaitu bahasa perisian komputer yang digunakan untuk merekod kandungan sesuatu dokumen bagi tujuan ményeragamkan laporan perniagaan. "Nadi kepada format XBRL adalah berdasarkan

COMPONENTS OF MBRS



MBRS SECOND COMPONENT

MBRS Tool (mTool)



MBRS PREPARATION TOOL (mTool)

Features

- MS Excel add-on application
- Form / Template driven
- User-friendly data collection
- Supports dual language for FS and Reports
- Inbuilt Taxonomy Browser
- Viewing & printing option available
- Offline and Online features
- Data imports from Word & XBRL Instance
- Data validation and quality checks
- Generate XBRL filings
- Support Office 2010 & above



BENEFITS OF USING mTool





Ш



OVERALL FILING PROCESS IN mTool



COMPONENTS OF MBRS

MBRS

THIRD COMPONENT

MBRS Portal (mPortal)

^	>	Home
----------	---	------

Annual Return

- Filing Approval
- Filing History

b Download - Annexure : Particulars of Beneficial Owners

Lownload - Instruction for Annexure

Miscellaneous

- Create User Association
- Download Taxonomy
- Download MBRS Tool

Financial Statements

- Filing Approval
- Filing History

Rectification Request

- Rectification Application
- Rectification History



16:

MBRS PORTAL (mPortal)



Features

- Website Login and role rights based access (Lodger and Maker)
- Latest mTool version download facility
- Data validations and quality checks
- E-mail confirmations & status updates
- Rendering filings on web
- Supports dual language
- Provides compliance dashboard
- Reports generation engine
- Digital Signature facility
- Online payment facility





OVERALL FILING PROCESS IN mPortal





THANK YOU



Implementation of the XBRL System at RBI

Dr. Anil Kumar Sharma Adviser RESERVE BANK OF INDIA

anilksharma@rbi.org.in

Department of Statistics and Information Management, Reserve Bank of India



On-line Data Submission in RBI

- The Reserve Bank of India collects various fixed format data (called 'Returns') from commercial banks, financial institutions, authorised dealers and non-banking financial institutions.
- The On-Line Return Filing System (ORFS) started in 2006.
- Although ORFS helped in many ways, the system has shortcomings:
 - **No standardization** as far as the data elements are concerned.
 - Repetitive information gets submitted to various departments of RBI, increases data inconsistency



Why XBRL at RBI?

- XBRL was introduced at RBI to meet the following objectives:
 - To act as an online single point data submission by regulated entities following the international standards of data sharing
 - To ensure uniformity in the data received from banks in a timely manner
 - To disseminate/ share the stored complete information (data as well as metadata) with all stakeholders (within/ outside the RBI).



XBRL Project Status

- **Phase I of XBRL project** started in May 2008 with 7 returns of related to Banking Supervision, Regulation, Foreign Exchange and Financial Statements of the banks
- Phase II of XBRL project started in March 2012 with 42 returns related to Banking Supervision, Regulation, Foreign Exchange, Co-operative Bank Supervision and Regulation. Later 48 returns more returns were taken up.
- Phase III of XBRL project started in May 2016 with 95 returns related to Banking Supervision, NBFCs, Payment system, Monetary policy.
- 126 returns are already developed under XBRL system of which 77 are already implemented and remaining will be implemented after VAPT.
- In terms of number of returns around 1/2 under XBRL (out of total 254) already developed
- Hosted at Data Centre, integrated to DW for Analytics



Department of Statistics and Information Management, Reserve Bank of India



Benefits of XBRL at RBI

As per the IT Vision document (2011-17) of RBI

- To ensure smooth flow of quality data in a timely manner to the users, it is essential that:
 - Uniform data reporting standards are developed
 - Data flow is automated from the source systems of banks to their MIS server
 - Data is submitted to the Reserve Bank in an automated manner without any manual intervention.



Benefits of XBRL at RBI

- Enables standardisation of code-masters across returns/ banks/ RBI departments
- Provides comprehensive information on each data element through availability of core taxonomy
- Enables rationalisation of returns to reduce reporting burden of banks. (34 returns of DCBS reduced to 23 returns. Similarly, 85 DBS returns reduced to 72)
- Ensures data consistency (within return) through proper validations
- Provides a Single point of data submission and dissemination
- Helps in identifying unique data items across returns, common data items across returns, etc. aiding harmonisation of banking statistics.


Benefits of XBRL at RBI

- Data Analysis with more granular information is possible
- Generating standard and ad-hoc reports as and when required
- Maximum possible automation of processes
- More analysis facilitated since less data related issues are expected
- Ease of incorporating data for various analytical studies and periodic reports
- Quicker access of data to the regulatory and other departments.

Uses of XBRL Data

6 Major systems moved to XBRL are related to Commercial Banks, Cooperative Banks, and Primary Dealers (Financial/ Non-Financial, Text/ Numeric, Accounting Disclosures, Attachment, etc.)

- Statutory returns CRR, SLR, Financial statement, etc. of DBR.
- supervision of Commercial Banks & Financial Institutions (OSMOS) 32 returns
- □ supervision of Urban Co-operative Banks (**OSS**) 34 returns
- □ supervision of **Primary dealers** 6 returns
- Centralised Fraud Reporting Monitoring System 7 returns aggregated data shared with banks
- □ Central Repositories of Information on Large Credit (CRILC)
 - aggregated data shared with banks,
 - on-line PAN validation,
 - SMA2 alert, RFA etc.
 - CRILC Implemented for NBFC & testing for Insurance by IRDA
 - Got international award for same.



Uses of XBRL Data

- Banking Regulation
- Supervision of Commercial Banks
- Regulation and Supervision of Urban Cooperative banks
- Regulation and Supervision of Primary Dealers
- Regulation and Supervision of Banks and Authorised Dealers related to External Sector
- Regulation and Supervision of NBFCs
- Regulation and Supervision of Payment & settlement system
- Monetary policy related

I) Uses of XBRL Data - Banking Regulation

- Compilation of CRR for banks (Form A)
- Compilation of SLR for banks (Form VIII)
- Financial Statement of Banks
- Unclaimed deposits at banks (Form IX)
- Monthly assets and liabilities of domestic operations, estimation of household financial savings (Form X)

II) Uses of XBRL Data - Banking Supervision

- Returns related to Off-Site Monitoring And Surveillance System (OSMOS), which involves the receipt, review and analysis of financial statements and statistical returns.
- The analysis of this information facilitates the monitoring of each bank's performance and of its observance of supervisory requirements over time, so that emerging problems may be identified
- Returns related to Fraud Monitoring System
- Returns related to Supervision of Financial Institutions

V) Uses of XBRL Data – Central Fraud Registry

- CFR displays frauds declared by the commercial banks involving amounts of Rs. 1 lakh and above, as soon as it is reported by the banks.
- CFR has options enabling banks to view data (a) Date wise /Date range wise and (b) entity wise for their MIS purposes.
- The data displayed are based on input criteria to be given by the user.
 - Reported Date (Date from / Date to)
 - Name of Perpetrator

combined with an option for the amount involved as given below:

- All frauds
- Rs. 1 lakh to less than Rs. 50 lakh
- Rs. 50 lakh and above.

Uses of XBRL Data – Regulation and Supervision of UCBs

- Compilation of CRR for banks (Form A)
- Compilation of SLR for banks (Form VIII)
- Financial Statement of Banks
- Unclaimed deposits at banks (Form IX)
- Monthly assets and liabilities of domestic operations, estimation of household financial savings (Form X)
- Inspection of UCBs



- Statement on Sources and Application of Funds
- Statement on Securities Market Turnover
- Statement on Capital Adequacy
- Statement on Select Financial and Balance Sheet Indicators
- Stress Test
- Interest Rate Sensitivity Test

VIII) Uses of XBRL Data – External Sector

- Statement showing the details of remittances effected towards import
- Money Transfer Service Scheme Return
- Consolidated information relating to exposures of corporates in foreign currency
- Remittances under Rupee Drawing Arrangements
- Market value of FVCI
- Monitoring of disinvestments by Overseas Corporate Bodies
- Import of gold by EOUs, units in SEZ/EPZ and nominated agencies
- Non-resident deposits comprehensive single return on NR/FCNR deposits and their transactions in a month

IX) Uses of XBRL Data – Recent additions

- Under phase III, 6 major systems are related to banks & NBFC are being added
 - Regulation & supervision of NBFC 16 returns + Regulatory approval process
 - □ Monitoring **Payment system** 9 returns
 - □ Financial Market 9 returns
 - □ **Monetary policy** 6 returns
 - Currency Management 5 returns
 - Risk based supervision & Returns related to Liquidity coverage 12



Department of Statistics and Information Management, Reserve Bank of India



Going Forward!

Banks are going to generate the data through ADF and seamlessly report through XBRL.

- Taxonomies will be used as a guide for specifying and communicating the data reporting formats in a standard manner.
- Creation of metadata from the taxonomy
- Migrate from 'Return based reporting' to 'Element based reporting'.
- Bring remaining returns, related to Monetary policy, External Sector, Financial Inclusion, NBFC, Payment System, Financial Market, Currency Management, etc. under XBRL
- Conduct regular consultations with all stake-holders to facilitate the process.



Thanks!

Department of Statistics and Information Management, Reserve Bank of India

UPDATES OF XBRL PROJECTS IN INDIA

EXTENSIBLE BUSINESS REPORTING LANGUAGE (XBRL) INDIA





The Institute of Chartered Accountants of India New Delhi

XBRL INDIA XBRL INDIA XBRL, ICAI

To promote and encourage the adoption of 'Extensible Businss Reporting Language'(XBRL) in India, The Institute of Chartered Accountants of India(ICAI) has formed XBRL India.

> XBRL India

- Formed as a Section 8 Company under Companies Act on 6th October, 2010.
- An established jurisdiction of XBRL International from the year 2010.
- Currently, there are 11 Members on the Board of the Extensible Business Reporting Language (XBRL) India.

> Three committees formed to support XBRL India:

- Membership Development Committee
- Taxonomy Development and Review Committee
- Audit Committee
- XBRL India develops taxonomies for Ministry of Corporate Affairs (MCA) for the purpose of financial reporting in XBRL format.

XBRL INDIA ADVISORY COUNCIL (XIAC)

- XBRL India Advisory Council is formed to advise the Board on the various endeavours of XBRL India.
- Currently, it has representatives from Ministry of Corporate Affairs (MCA), Securities Exchange Board of India (SEBI), Reserve Bank of India (RBI), and Insurance Regulatory and Development Authority (IRDA).
- XIAC was formed with the objective of having the inputs of the regulators :
 - On the use of XBRL for their reporting requirements
 - Development/updation of industry specific taxonomies
 - Other endeavours for recognising XBRL as a standard electronic business reporting language
 - XIAC usually meets once a year

XBRL IN FINANCIAL REPORTING TAXONOMIES IN INDIA



> Commercial and Industrial (C&I) Taxonomy

- C&I (Commercial & Industrial) Taxonomy, as developed by the ICAI, has been used by the MCA for having the financial statements in XBRL format from the year 2010-11.
- C&I taxonomy is a General Purpose Financial Reporting XBRL Taxonomy developed for Commercial and Industrial companies. It is developed on the basis of the Accounting Standards, Guidance Notes on Accounting, Company Law provisions and other accounting pronouncements.
- With every change in the accounting framework or Company Law, the C&I taxonomy undergoes a change and submitted to the Regulator.

> Ind AS Taxonomy

- A separate XBRL taxonomy is developed for having annual filings of Ind AS compliant companies in XBRL format for the financial year 2016-17 and onwards.
- The Ind AS taxonomy follows the IFRS taxonomy modelling structure.
- Ind AS taxonomy is developed on the basis of the Ind AS, Guidance Notes on Accounting for Ind AS companies, Company Law provisions and other accounting pronouncements.

XBRL IN FINANCIAL REPORTING TAXONOMIES IN INDIA- CONTD



Industry-specific taxonomies developed on the basis of Accounting Standards but not yet implemented by Ministry of Corporate Affairs (MCA):



XBRL IN RECENT UPDATES ON XBRL IN INDIA

- Currently, Banking companies, Insurance companies and Non Banking Financial Companies (NBFCs) are exempt from the purview of XBRL mandate of the MCA.
- As of now approx 40,000 companies are covered in the Ministry of Corporate Affairs (MCA) mandate of XBRL filling and the number is expected to increase in near future.
- As per latest notification of MCA, Power Companies are required to file their financial statements for the year 2016-17 as per current XBRL Ind AS Taxonomy.

XBRL. ICAI

XBRL IN XBRL TAXONOMIES-WAY FORWARD

With the Ind AS applicability on the following sectors as per their respective roadmaps, it is proposed to develop the sector specific Ind AS taxonomies for the following companies:

Non Banking Financing Companies

Banking Companies

Insurance Companies

XBRL. ICAI

XBRL NOTHER ENTITIES USING XBRL REPORTING IN INDIA



There are several other regulators, organisations who are using XBRL format for other reporting purposes such as statistical information, compliances filing and other business activities reporting purpose. The other entities using XBRL Reporting in India:









Contact for more details: xbrl@icai.in

Website: in.xbrl.org

Follow ICAI on Social Media - http://www.icai.org/followus





Enhanced Analysis for the 21st Century

- XBRL data analytics with AI -

Shogo Ohyama XBRL Japan Development WG

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Agenda

- XBRL Adoption in Japan
- EDINET
- Utilization of XBRL
- Analysis
 - #1 Cyber security status survey
 - #2 Research and development trend analysis
- Conclusion



XBRL Adoption in Japan

Implementer	System		
Financial Services Agency (JFSA)	EDINET (<u>E</u> lectronic <u>D</u> isclosure for <u>I</u> nves	stors'	
Japan Exchange Group (JPX)	TDnet (<u>Timely D</u> isclosure <u>net</u> work)	Public data	
National Tax Agency	e-Tax		
Bank of Japan (BOJ)	Financial Institutions Monitoring System	g Online	
Ministry of the Environment (MOE)	Environmental Reporting Platform for Financial Institutions (Under POC)		

EDINET has been collecting and disclosing annual securities report and so on using XBRL since 2008.

Now a lot of data has been accumulated.



EDINET





http://disclosure.edinet-fsa.go.jp/EKW0EZ1001.html?lgKbn=1&dflg=0&iflg=0

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EDINET

\rightarrow Specify Reporti	> Specify Reporting period / Submission period						
			Search				
O Search results							
Out of 5(1~5)					XBRL ba	tch dowr	nload
Date & time of ↓ submission ▼	Submitted document	Code $\frac{\Delta}{\nabla}$	Submitter / Fund	Issue / Subject / Su /Reason for extra	bsidiary report PDF	XBRL	Remarks
2018.02.02 15:30	Quarterly securities report-118 th Period3Quarter(2017.10.01-2 017.12.31)	E01766	FUJITSU LIMITED		PDF	XBRI	
2017.11.01 14:37	Quarterly securities report-118 th Period2Quarter(2017.07.01-2 017.09.30)	E01766	FUJITSU LIMITED		PDF	XBRL	
2017.08.04 15:00	Quarterly securities report-118 th Period1Quarter(2017.04.01-2 017.06.30)	E01766	FUJITSU LIMITED		PDF	XBRL	
2017.06.26 15:48	Annual securities report-117th Period(2016.04.01-2017.03.31)	E01766	FUJITSU LIMITED		PDF	XBRI	
2017.06.26 15:35	[Amend] Annual securities rep ort=116th Period(2015.04.01=20 16.03.31)	E01766	FUJITSU LIMITED		PDF	XBRL	
2017.06.26 15:38	Confirmation Letter	E01766	FUJITSU LIMITED		PDF]	



Example: Annual Securities Report

E01766: FUJITSU LIMITED (Japan Corporate Number) 1020001071491 S100AMOL: Annual securities report - 117th Period(2016.04.01 - 2017.03.31)



Or	iginal submitted documents	E	Audit reports	s Alternat	ive form /	attached docu	ments			
Or Cont	iginal submitted documents ents Search		第一部【 第1【企 1【主要 (1) 漸	企業情報】 業の概況】 駅な経営指標等 話終常指標等	の推移】	[Company [Overview [Summary Business Re	Information of Companvl of Business R esult of Grou	Result]		
表紙		~	(1) / <u>(1)</u>				国際会	計基準 IFRS		
 本文				煙晒云前平反		2013年度	2014年度	2015年度	2016年度	
第一部	Company information		売上収益	Revenue	(百万円)	4,762,445	4,753,210	4,739,294	4,509,694	
第1 👔	Overview of company		営業利益 (Operating profit	(百万円)	147,275	178,628	120,612	128,861	
1	Summary of business results		税引前 Pro	ofit loss before ta	ax \$万円)	161,103	198,864	131,822	135,147	
22	Company history		当期利益	Profit loss	(百万円)	122,010	145,011	90,421	95,317	
3 4 5	Overview of affiliated entities		親会 Prof 当期 to c	fit loss, attributa owners of parent	ole _{万円)}	113,215	140,024	86,763	88,489	
つ] 笹23	Information about employees		当期 Com	nprehensive inco	me 万円)	175,559	250,283	5,530	137,087	
12	Overview of business results	o o is r	親 C	Comprehensive ir utable to owners	come s of parent	161,531	240,329	8,860	129,191	
3	overview of production orders re <u> 文 ひ 対 処 す</u>	ceiv	eu ^{具 (本 合計}	Total equity	(百万円)	697,951	934,397	926,240	1,019,202	
4			資産合計	Total assets	(百万円)	3,105,937	3,271,121	3,226,303	3,191,498	
4 5	Business risks Critical contracts for operation		1株当 国持分	uity to asset rati	。 (円)	273.79	381.88	378.37	429.80	
6] 7]	Research and development activi 小以仏恐。経営放績仪ひチャッ	ties		有者に帰属する い当期利益	(円)	54.71	67.68	41.94	42.83	

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Example: Annual Securities Report

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Or	iginal submitted documents	Audit reports Alternative form / attached documents	
Origi Cont	nal submitted documents ents Search	6 【研究開発活動】 [Research and development activities] 当社グループの事業は、「テクノロジーソリューション」、「ユビキタスソリューション」及び「デバイスソ リューション」の各セグメントにより構成されており、それぞれの分野ごとに研究開発活動を行っております。「テ クノロジーソリューション」では、次世代のサービス、サーバ、ネットワーク等に関する研究開発を行っておりま す。「ユビキタスソリューション」では、バソコン、携帯電話、オーディオ・ナビゲーション機器等のユビキタス社 会に不可欠な製品及び技術に関する研究開発を行っております。「デバイスソリューション」では、ISI、電子部品	^
 太文	^	(半導体バッケージや電池)等の各種デバイス製品及び関連技術に関する研究開発を行っております。	
第一部	Company information	当社グループでは、ICTを活用することによってどのようにイノベーションを起こし、これまでとは違う未来を創 20月1 アルイカビールアの「当社グループのビジョンを「Envident Technology and Service Vision」としてまとめ	
弗口 1 2)	Summary of business results Company history	ています。その中で、当社グループは、セグメントの区分を超えて、ヒューマンセントリック・イノベーションの実現に向けて取り組むことを提唱しています。	ł
3 3 4 5 第2	Description of business Overview of affiliated entities Information about employees Overview of business	ヒューマンセントリック・イノベーションは、デジタル技術を活用して人々をエンパワーする(力を与える)ことによって、ビジネスや社会の価値を創出するアブローチです。これは、「人の創造性、情報から導かれるインテリジェンス、モノやブロセスのつながり」という、価値を生み出す3つの要素を組み合わせることによって実現されます。それぞれの要素は、人、情報、インフラストラクチャーという3つの経営資源に対応しています。当社グルーブ	
1	Overview of business results	の研究開発活動は、それぞれの要素に対応した、以下のアクションアイテムに沿って行われています。	
23 3新 <u>処</u> 1 4番 5新	Issues to address Business risks	eceived ①ヒューマン・エンパワーメント デジタル技術を活用して人をエンパワーします。具体的には、お客様のイノベーションを富士通のエンジニアが 実現する「インテグレーションによる価値創造」、モバイルで人をエンパワーする「モビリティとエンパワーメン ト」という2つのコンセプトに基づいてテクノロジーとサービスを提供します。	
6 7 生	Research and development activ <u>MEX1ARS、新日日の病国文</u> CP <u>マッシュ・フローの状況の分</u>	/ities ーー・ノエイティブ・インテリジェンス 多様な情報分析を通じて新たな知識を創造するとともに、高まるリスクに対してセキュリティを確保します。具 /#45/->>> Winter を #**>###P (パード・・P A、A、S With Subject Flateral Subject Flate	~

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EDINET

The **entire** annual securities report is written in Inline XBRL format.

- All text information is tagged as a text block.
 - Business risks / Research and development activities / ...



Example: Tags for Business Results

E01766: FUJITSU LIMITED (Japan Corporate Number) 1020001071491 S100AMOL: Annual securities report - 117th Period(2016.04.01 - 2017.03.31)



Original submitted documents	Audit reports Alternative form /	attached documents	
Original submitted documents Contents Search	第一部【企業情報】 第1【企業の概況】 1【主要な経営指標等の推移】	BusinessResultsOf	GroupTextBlock
	(1) 連結經営指標等	Business Result of Group	_
表紙		国際会計基準	IFRS
本文		2013年度 2014年度 201	5年度 2016年度
第一部 Company information	売上収益 Revenue (百万円)	4,762,445 4,753,210 4,7	/39,294] [4,509,694]
第1 👔 Overview of company	宮業利益 Operating profit (百万円)	[147,275] [178,628] [1	.20,612] [128,861]
1 Summary of business results	税引 <mark>前 Profit loss before tax</mark> 打开円)	[161,103] [198,864] [1	.31,822] [135,147]
22 Company history	当期利益 Profit loss (百万円)	[122,010] [145,011] [90,421] [95,317]
4 Overview of affiliated entities	親会 Profit loss, attributable 当期 to owners of parent 万円)	[113,215] [140,024] [86,763][88,489]
つ」 Information about employees 第2章 Overview of husiness	当期 Comprehensive income 万円)	[175,559] [250,283] [5,530 [137,087]
1 Overview of business 2 Overview of business results	親 Comprehensive income attributable to owners of parent	[161,531] [240,329] [8,860] [129,191]
3章 Issues to address 文() 対処す	_ 具本合計 Total equity (百万円)	[697,951] [934,397] [9	126,240] [1,019,202]
	資產合計 Total assets (百万円)	[3,105,937] [3,271,121] [3,2	26,303] [3,191,498]
5 Critical contracts for operation	1株当 Equity to asset ratio (円)	[273.79] [381.88] [378.37][429.80]
⁶ ≰ Research and development activities 7 <u>朝政状態、経営成績及びキャッ</u>	現会社の所有者に帰属する 基本的 1 株当ため当期利益	[54.71] [67.68] [41.94][42.83]

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Example: Tag for Research and development activities

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Or	iginal submitted documents	Audit reports Alternation ResearchAndDevelopmentActivitiesTe	xtBlock
Origi	nal submitted documents ents Search	6 【研究開発活動】 [Research and development activities] 当社グループの事業は、「テクノロジーソリューション」、「ユビキタスソリューション」及び「デバイスソ リューション」の各セグメントにより構成されており、それぞれの分野ごとに研究開発活動を行っております。「テ クノロジーソリューション」では、次世代のサービス、サーバ、ネットワーク等に関する研究開発を行っておりま す。「ユビキタスソリューション」では、パソコン、携帯電話、オーディオ・ナビゲーション機器等のユビキタス社	^
<u>表紙</u> <u>本文</u>	^	会に不可欠な製品及び技術に関する研究開発を行っております。「デバイスソリューション」では、LSI、電子部品 (半導体バッケージや電池)等の各種デバイス製品及び関連技術に関する研究開発を行っております。	15
第一部 筆1 1	Company information Overview of company	当社グループでは、ICTを活用することによってどのようにイノベーションを起こし、これまでとは違う未来を創 り出していくかについての、当社グループのビジョンを「Fujitsu Technology and Service Vision」としてまとめ	2. 1.
1	Summary of business results	ています。その中で、当社グループは、セグメントの区分を超えて、ヒューマンセントリック・イノベーションの実 現に向けて取り組むことを提唱しています。	2.5
24 3 4 51	Description of business Overview of affiliated entities Information about employees	ヒューマンセントリック・イノベーションは、デジタル技術を活用して人々をエンパワーする(力を与える)こ とによって、ビジネスや社会の価値を創出するアブローチです。これは、「人の創造性、情報から導かれるインテリ	
第2] 1]	Overview of business	ジェンス、モノやブロセスのつながり」という、価値を生み出す3つの要素を組み合わせることによって実現されます。それぞれの要素は、人、情報、インフラストラクチャーという3つの経営資源に対応しています。当社グループの研究問発活動は、それぞれの要素に対応した、以下のアクションアイテムに沿って行われています。	
21 3{ 処	Overview of production orders	received … ①ヒューマン・エンパワーメント デジタル技術を活用して人をエンパワーします。具体的には、お客様のイノベーションを富士通のエンジニアが 実現する「ノンコンド」、シュンとと2006年9月時日、エバノコマートネッドロッチス「エバリコント」、パマーノン	
4 5 6	Critical contracts for operation Research and development act	美現する「インテクレーンヨンによるImfleB0回」、セハイルで人をエンハワーする「モビリティとエンハワーメン ト」という2つのコンセプトに基づいてテクノロジーとサービスを提供します。 vities	
7년 <u></u> 土1	1世X1458、経営政績ない ペッシュ・フローの状況の分		~

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Utilization of XBRL



✓ Some text information represents the direction of the company.

Business risks / Research and development activities / …

In fact, text information is an important factor to analysts,

- Cyber security status survey (with Text Mining)
- Research and development trend analysis (with AI)



Cyber security status survey (with Text Mining)

Investigation of the number of companies considering cyber security status as risks.

Step	
1. Do	ownload annual securities report from EDINET. About 3000 companies Reports in 2016. tract "Business risks" item by XBRL tool
 2. Lx 3. Pe 4. Co 	rform text mining and extract keywords related to cyber security. "cyber", "computer", "hacking", "cracking" ount the number of occurrences of keywords for each company.
Resul t	244 970 A86
• Cor	mpanies including keywords : 166 companies

• Keyword "cyber" appears most often at : Sony Corporation (13 times)



Pinpoint analysis can be achieved by extracting risk information.

Research and development trend analysis (with AI)


R&D trend analysis: Results #1 Overall view 3000 companies are plotted Each point represents each company 15

R&D trend analysis: Results #1



R&D trend analysis: Results #1



R&D trend analysis: Results #1



- Changes of FUJIFILM Holdings Corporation.
 Similar business domain is:
 - Electronics before 2007.
 - Pharmaceutical after 2008.







Pharmaceutical companies

- Changes of FUJIFILM Holdings Corporation. Similar business domain is:
 - Electronics before 2007.
 - Pharmaceutical after 2008.



The changes of business domain can be detected.



Conclusion

Tagged text information is valuable to data users.

- By using XBRL and EDINET filing, it is easy to extract and compare text information.
 - According to purpose, we can perform analysis of risks, R&D,
- Text information can be applied to similarity search and trend analysis.
 - It is difficult to be achieved with only numerical information.
 - This technology can be applied to all languages.
- XBRL Japan will continue this activity to promote XBRL utilization.
 - Please contact us if you are interested.





Our update

21 JUN 2018 NTT DATA SYSTEM TECHNOLOGIES (NST) Akane Seto

© 2018 NTT DATA Corporation

Wada-san

трата

NT

me

N 5 1

This presentation's contents

The most up-to-date information of Our activities related to the XBRL eco-system

- 1. Bank of Japan (Central Bank) / Taxonomy maintenance
- **2. Ministry of the Environment in Japan**/ Disclosure system of Environmental reports
- 3. XBRL Training business



1. Bank of Japan (Central Bank)

/ Taxonomy maintenance







Environmental Reporting Platform Development Pilot Project



3. XBRL Training business





4. NTT DATA business

/ New technology



Reportix



Promoting the introduction of NEW DWH system for XBRL = "NEXTERA"

with...





Please feel free to contact NST !

E-Mail : <u>xbrl@nttdst.com</u>



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XBRL INTERNATIONAL TECHNICAL ROADMAP

XBRL ASIA ROUND TABLE IN CONJUNCTION WITH 28th ADB ASEAN+3 ABMF MEE FUKUOKA, JAPAN, JUNE 2018

TEMIS

John Turner

Not XBRL 3.0.... But a New Dawn

- Open Information Model or OIM
- Modernise and Simplify
 Step 1: Interchangeable Report Formats
 Step 2: Taxonomy Modernisation
 Step 3: "Full Stack" Reporting



Background – a Modular History

- XBRL Specifications have been developed in a modular fashion since 2002.
- Very powerful, extremely flexible
- Used right around the world
- Too complex
- However, change resisted by key stakeholders
- Technical debt built up



Nothing Changes!



ECOSYSTEM

FORMAL INTEROP

COLLABORATION

And... whisper it... flexibility in creating local definitions.



Formal Interopability



XBRL Certified Software

XBRL Certified SoftwareTM is software that has been inspected by XBRL International for conformance with the XBRL specifications. The certification programme exists to ensure interoperability between XBRL software products, ensuring that XBRL reports created in one piece of software can be consumed successfully in another and that those reports will be consumed the same way by other pieces of XBRL Certified Software^{IM}.

Certification is currently provided for two different types of software: Report Consumption Software and Report Creation Software.

Report Consumption Software is software that is designed to validate, process or otherwise consume XBR.to rinine. Cartification checks that such software correctly validates reports according to the specification. Report Consumption Software is tested using the conformance suites that accompany the XBRL specifications.

Report Creation Software is software that is used to prepare XBRL or XBRL reports. In order to obtain certification, such software is required to validate any created reports using certified Report Consumption Software.

XBRL International conducts its review of software largely through the use of specification conformance suites, which ensure interoperable compliance with the XBRL Specifications. All care is taken, and the conformance suites themselves are highly objective, but all users should be aware that XBRL international makes no representations about and disclaims all liability in relation to the quality or utility of any third party products; including those subject to certification.

Get certified

XBRL

Certified Software

For more information on the programme and to enrol your product for certification, please visit the XBRL International website. XBRL is a modular specification, and both types of software can gain certification in one or more modules. The modules currently available are:

Core
 Inline XBRL v1.1
 Table Linkbase v1.0

Table Linkbase VI.0
 Extensible Enumerations VI.0
 Formula VI.0
 Units Registry VI.0

XBRL Certified Software is subject to annual re-testing

Certified software

The following software holds a current software certification.

Interstage XWand Runtime (Fujitsu)
 R5 APJ (Reporting Estándar S.L.)
 RaptorXML+XBRL Server (Altova CmbH)
 True North (CoreFiling)
 XMLSgy (Altova CmbH)

Report Creation Software

Sectent CDM (Certent)
 DataTracks DMS (DataTracks)
 DataTracks DMS (DataTracks)
 Intenstage XWand Toolkt (Fujitsu)
 Intenstage XWand Toolkt (Fujitsu)
 Merrill Bridger (Merrill Corporation)
 SSS.API (Reporting Estándar S.L.)
 Seahoras (CoreFiling)
 True North Connectors (CoreFiling)
 Wdesk (Workva)
 XMLSps (Altova CmbH)

The XBRL Certified Software™ logo

Software that has gained certification is entitled to the display the XBRL Certified Software^M (sog. Wherever the logo is displayed online, it will be linked to a software certification page on this site, providing full details of the product's certification status.

If you encounter a logo that is not linked to a page on this site, please report it to certification@xbrlorg. Every XBRL specification is backed by thousands of "conformance suite" tests that allow proof of software interoperability.

Doesn't mean that the software is easy to use, stable or suitable for you.... It does mean that the software is provably interoperable!



Subscribe!





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It all starts with membership!

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A community of forward thinking governments, firms and individuals who understand how the power of structured data makes information more accessible, accurate and useful, all working within their own environments to improve reporting and together, making an impact on a global scale. A collaboration between key actors within both the private and public sectors worldwide to leverage and improve XBRL, the business reporting standard.

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Ten reasons to join as a member of XBRL International today:

1	Invitations to Asia Round Table events.
2	Invitations to the quarterly Membership Forum
3	Access to member only guidance materials.
•	Access to regional and global working groups t

4 XBRL specification development and knowledge sharing on the use of XBRL.

5 Access to XBRL International's Knowledge Base, including all event presentations and webinars.

- Discount on registration fees for XBRL International events, including Data Amplified.
- 8 Voting rights on the Member assembly (optional).

Included in directory listing & recognition of membership status (optional).

Support from XBRL International to advance XBRL adoption in your country (through the membership development committee).

To subscribe to direct membership, please fill out the form on the bac and email to join@xbrl.org



XBRL International Membership Application Form¹

Primary Contact Information²

Name: Name: Position/Title: Street Address: Phone: City: Email: Country: Billing Contact (if different) Direct Member Voting Representative Designation³ Name: Name: Position/Title: Street Address:

City:

Organisation Information

Membership Dues

Phone:

Email:

		Annual	Annual Dues (please tick)			
For-Profit	<= \$1 million gross revenue	\$2	,000			
Organisation	Dues > \$1 million in gross revenue	\$2 \$1 (to	,000 plus an additional \$500 per million dollars in gross revenue a maximum of \$20,000)			
Government or Regulatory Entities	National governmental/regulatory entities located in top 20 world economies (by GDP)	\$4	,000			
	All other national governmental or regulatory entities	\$2	,000			
	Multinational regulators	\$5	,000			
Non-Profit Organisations	Grant-funded, non-governmental organisations	\$1,	000			
	Professional Societies - individual members	\$5	,000			
	Professional Associations – primarily corporate members* *only staff or approved designated representative receive member rights	\$10	9,000			

Liverely represent, that I have read and understand the above information and that the answers and attachments are, to the best of our insules/gear and belfet, the and correct. In consideration of admission to membership in 3881, International, Inc., or earber yeldcept a scatch to and able for the Yorkaw and Membership Relicies. & Procedures of the Organization, as now existing and as bereafter duly amended from time to time.

*All memberships are subject to approval by the XBRI. International Board of Directors. Membership becomes active upor receipt of payment.

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¹ Each Organisational Direct Nember may appoint a Voting Representative to the Nember Assembly who shal have the right to exercise the vote of that Organisational Direct Nember in matters before the Member Assembly as set forth in the All 2010 by lows. Membership Category:

Total Annual Dues:

Applicant Signature/Date: Printed Name / Title:

STEP 1: OIM FOR REPORTS



Why OIM?

The problem is not that we're wedded to XML, it's that we're wedded to any particular syntax:

XBRL 2.1 fails to separate syntax from semantics, impairing transformation to different formats



xBRL-JSON

- Make XBRL data more "developer-friendly"
- Syntax continues to be refined
- Particularly relevant to providing XBRL data from web APIs
- Informed by real world usage of XBRL data with JSON

```
"value": "10000000",
"accuracy": 2,
"aspects": {
    "xbrl:concept": "ld:LimitGranted",
    "xbrl:entity": "scheme:01",
    "xbrl:periodStart": "2008-01-01T00:00:00",
    "xbrl:periodEnd": "2008-01-01T00:00:00",
    "xbrl:unit": "iso4217:USD",
    "ld:Firm": "F50E0CWSQFAUV09Q8Z97"
}
```





"efficiency", "simplicity", "ubiquity"

CSV is still everywhere, and for bulk data transfer, has many benefits



xBRL-CSV

- Very efficient for large datasets with repeating records
 - Increasing trend for granular data
- Built on W3C's Tabular Metadata initiative

>	Company	Size	Country	Limit	Percent Collateralised	interest	Start Date	Maturity Date
S	F50EOCWSQFAUVO9Q8Z97	ld:Small	UK	1000000	0.7	0.04	2001-06-01	2020-12-31
	AX378AEV345CAME93E45	Id:Medium	US	2000000	0.5	0.02	2010-03-01	2019-12-31
	QWEE5SFSYV452DRG3483	ld:Micro	PL	3000000	0.3	0.03	2016-09-01	2017-10-31
>					7			
CS	Typed	Size	Country	Limit C	Concepts	interest	Start Date	Maturity Date
×BRL-	F50EC Dimension 8297	ld:Small	UK	10000000	0.7	0.04	2001-06-01	2020-12-31
	AX378AEV345CAME93E45	ld:Medium	US	20000000	Facts ⁵	0.02	2010-03-01	2019-12-31
	Dimension values	ld:Micro	PL	3000000	0.3	0.03	2016-09-01	2017-10-31



- XBRL Formula is very powerful

 Ability to embed business rules in an XBRL Taxonomy is extremely valuable
- XBRL Formula is very complex
- XBRL Formula is hard to use

...and not just because it's complex





XF- Text-based Formula

```
<variable:factVariable
 bindAsSequence="false"
 xlink:label="variable1"
 xlink:type="resource"/>
<cf:conceptDataType strict="false" xlink:label="filter1" xlink:type="resource">
    <cf:type>
        <cf:qname>lei:LEIItemType</cf:qname>
    </cf:type>
</cf:conceptDataType>
<variable:variableFilterArc
 complement="false"
 cover="true"
 xlink:arcrole="http://xbrl.org/arcrole/2008/variable-filter"
 xlink:from="variable1"
 xlink:to="filter1"
 xlink:type="arc"/>
```

Which would you rather work with?

```
variable $v {
    concept-data-type non-strict lei:LEIItemType;
};
```



OIM reports...

- Offer up new ways to think about reporting.
- Other formats can be added as required, including formats that are not in existence today
- Some changes depend on Taxonomy Modernisation
 - (Eg: full modernisation of Inline XBRL and Table Linkbase)



XBRL 2.1→ OIM narrows existing flexibility, to simplify, clarify and to... <u>ensure backwards</u> <u>compatibility.</u>

"Protect our Heritage" is a key principle.



Right now... no apologies!

- Calc2 for Anchoring Extensions
- XF to simplify formula expressions likely as a reference OSS implementation rather than as a specification
- OIM: JSON/CSV/XML for reports







Today

- Taxonomies are file based
- Difficult to reuse existing definitions
- Not easy enough to compare existing definitions
- Domain "Islands"
- Can be difficult to interact with
- Remember that Taxonomies are typically built by *business* experts!



OIM: Plug and Play



The API signature(s) become the way we interact with the standard









What is "Full Stack" Reporting?

- Vast majority of today's XBRL is B2R or G2G. It is generally relativey aggregate.
- {Already touched on Granular reporting.}
- XBRL China (with some limited help from XII) has been developing a new approach to Standardised Enterprise Reporting – B2B or S2HQ!


Standardised Enterprise Reporting





"Full Stack" Reporting

- Allows reporting at any level of aggregation, from transactional through to regulator industry level reporting
- Allows reuse of taxonomy definitions across domains
- Takes advantage of Big Data in particular



Questions





Our purpose is to improve the accountability and transparency of business performance globally, by providing the open data exchange standard for business reporting.

Our standards are freely licensed. We operate in the public interest as a not-for-profit global consortium.



https://www.xbrl.org







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IMPORTANCE OF COLLABORATION IN CENTRAL BANK DATA COLLECTION



BANK OF ENGLAND

TECHNOLOGY | DELIVERY

Disclaimer



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The views expressed here are those of the speaker and not necessarily those of the Bank of England.



Background

•

- Head of Data Collection and Publication
 - Operational management data collection and publication systems
 - Management of 80+ data services vendors
 - Leading the design and delivery of all data collection projects
- UK & BoE Representative(s) to the technical committees
 - EBA, EIOPA, ESMA, ECB
 - LEI Regulatory Oversight Committee
 - XBRL Board of Directors
- FinTech / RegTech Technology Advisor
 - Lead high profile 'FinTech' / 'RegTech' PoCs
 - 2 x Blockchain and Advanced XBRL data management





Competition makes us FASTER

Collaboration makes us BETTER

COLLABORATION

Collaboration in other industries – Supply Chain

- Standardisation removed obstacles to trade and created new global supply links
- 1977 Barcode becomes Global Standard
- Increased automation through use of new
- technology and standardised dataGLN) to map products to fixed locations
- Improved risk management across the supply
- chain i.e. Sout of stock, defects etc (SSCC)

allowing products to be grouped in transit

- Reduced barriers to entry through
 commoditisation of Technologyation Network
 (GSDN) standardised product descriptions with
- Total value of world exports quintupled from 1980 to 2005



The impact of lack of collaboration



- Inconsistent technical and data explanatory information published.
- Repetition / overlap of data requested
- Manual processing / validation of data
- Data quality issues
- Multiple formats and no standardisation
- Higher costs of software and implementation
- Point solutions / poor data management

Working together for Data Collection

- 3 fundamentalsongoing change
- Collaboration is key to regulation
- Communicatesier, faster and cheaper... for everyone
- Trust
- Is Technology the answer?
- Is Data the answer? New data? More data? Better use of existing data?
- No they are enablers

How?

- What is the ecosystem? Who? Their needs? Expectations?
- What questions are we trying to answer?
- What is our vision?
- What will provide the enabling foundation?
- How do we organise ourselves?

Data collection ecosystem – micro to macro



Sentiment about data collection



Let's talk – Society and regulators



- Can you explain what you do simply so we understand?
- Why should I care? What is the purpose of data collection?
- How does this help you protect my money and safeguard financial system as a whole?
- How do you hold regulated firms to account?
- How do we get to know about what you do more?



Let's talk – Society and regulated firms



- We expect you to act in our best interests.
- We expect you to conduct yourselves to the highest standards and act with integrity
- We expect you to be well governed and to play by the rules
- How are you being more transparent and changing your relationship with society?



Let's talk – Regulated firms, solution providers and regulators



REGULATED FIRMS



- How can we work together and input?
- Communicate a clear technology and data strategy that adopts standards
- Good data quality = Good data management as a foundation for quality.
- What is the data being used for?
- Is there enough time for implementation?
- Build data models and taxonomies
 - Think commercially... PLEASE!



Let's talk – Firms, other firms and standards bodies

REGULATED

FIRMS



- What do standards bodies recommend?
- How can we help simplify and standardise data collection?
- What can we learn from each other?
- How do we deal with ambiguity in requirements and get better foresight?
- How do we influence the direction the regulator goes in?



REGULATED FIRMS



Let's talk – Firms and solution providers



- How are you engaging with the regulator to make implementation successful?
- What value do your services offer over others?
- How are your service offerings going to help us reduce the costs of regulatory reporting?
- How can I consolidate / simplify by IT and Data estate and reduce by TCO?
- How quickly will your solution be ready?



SOLUTION PROVIDERS

Let's talk – Regulators, regulated firms and solution providers

- We would love to engage you more and have you involved. What should we be doing / not doing?
- Take the opportunities to provide feedback?
- Help us with design choices.

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REGULATORS

- Help us with testing and test data?
- Let us know what help and education you need
- Prioritise data quality



REGULATED FIRMS



SOLUTION PROVIDERS

Let's talk – Firms, regulators, solution providers and standards bodies



REGULATED FIRMS



- Can you make your information easier to understand and learn?
- How do we communicate the business benefits?
- How do we leverage standards and why should we standardise? Will it improve data management and reduce costs?
- What do we need to know? What information do you think we need?
- Do you have special interest groups we can participate in actively?



Let's talk – Regulators, firms, solution providers and standards bodies



- How do we collect data that is closer to source? More granular data?
- How do we help reduce burden and costs?
- What do we do to standardise nationally and across borders?
- Where do we begin to collaborate and how?
- How do we collect once and re-use many / pull data on demand?
- What should we be thinking about for the future?





Let's talk – Regulators and society



- Working for the good of the people by promoting and maintaining monetary and financial stability
- Protecting the public
- Educating about what we do and why. Reaching out.
- Operating a fair, simple and stable financial system



SOCIETY

Sentiment about data collection after collaboration



Education & cultural change are key to Collaboration

- Industry working groups
- Lengthy industry testing and External UAT
- Early sight of data and tech specifications
- Standards, consistency, leverage, re-use
- Conferences, outreach, training, TechSprints
- Internal training and awareness
- Proving business benefits and value
- Patience



Setting solid foundations – Maslow's / Data Hierarchy of Needs



Communicate key principles and standards

- Standard machine readable data dictionary and data exchange format
- Data model based approach
- Single data collection platform
- Automation of checks at source/XBRL (extensible business reporting language)
- Clear and consistent data definitions.
 Clear and consistent data definitions.
 - DPM (data point modelling)
- Collect once and re-use many
- ISO20022
- Standards / unique global identifiers
- Leverage technology and skill investments

- Expansion of the UK Taxonomy to coveromy
- Stress Testing XBRL proo Resolution
 - Manual to (more) aut NewRing Fenced Bankingirements are model based
 - DPM based
 - machine readable using DPM and XBRL Collaboration with firm **New UK Taxonomy for Insurance**
 - Aligned to BCBS239
- Sterling Money Market I Capital+Was 90% re-use created
- Re-Digitises 95% of UK insurance regulatory initions frondata EBA CRDIV Taxonomy
 - Principles of leverage, re-use and extension maintained FSA001, FSA002, FSA014 and FSA015 is. ISO20022 standard for C 100% re-use
- LEI's requested in all nev

 Stress Testing PoC completed successfully and go
 live approved for 2018 and beyond

- 96% success rate for new filing regime on day 1
- Software vendor who has ~55% market share of banks in the UK stood up new reporting in their software in 4 hours.
- 35% reduction in firm time saved during a Stress Test week
- Reduction in ~50% of validation rules in one Stress Test template and automation of rest.
- TCO of platform reduced by ~25% over LFL contract term by adopting standards



Collaboration for innovation for the future

• FinTech Accelerator: RegTech Advanced XBRL Data Management



NTT Data Global IT Innovator



- Collaboration between Regulator, Solution Provider and FinTech
- Proved potential to reduce cost of change by up to 67%
- Proved potential to reduce FTE working on change by up to 50%
- BoE / FCA TechSprint on Model Driven Machine Executable Reporting
- Early days. Long term.
- Collaboration between all parties

Working together for a better future

Deliver results first

- How far you get depends on what works and pace of change delivered and results proved
- Focus on the right foundations
- Demonstrate value for money

COLLABORATION IS KEY

Thank you and Questions

diverse a



EUROPEAN COMMISSION

Directorate-General for Financial Stability, Financial Services and Capital Markets Union



BRAG

Claryon

European Financial Transparency Gateway

ABMF-XBRL International Joint Asian Roundtable | 2018 | Fukuoka

Michal Piechocki | CEO @ BR-AG

Board Member @ XBRL International | Board Member @ Eurofiling Foundation

Chair @ Frankfurt Group Technical Workshop | Member @ ISO TC 68 WG1 | Member @ IFRS Taxonomy Consultative Group



en s

Anne is an investor who is looking for opportunities on pan-European capital market



en la

Peter is an M&A manager who is looking for possible synergy opportunities among the European capital market participants



Sam


and a

Since there is no central platform for analysts and investors to obtain that information conveniently, reliably and promptly...



en se

...and also because financial reporting data is available in different languages...



 \sim

Control of the second s

...and often in various file formats...



en s



en se

...making informed decisions for Anne, Maria and Peter is much harder, or in some cases impossible



European regulators have undertaken several initiatives to help Anne, Peter and Maria to tackle these challenges

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In 2005 the European Union has introduced unified accounting and reporting standards called the International Financial Reporting Standards (IFRS)





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and a

From 2017 the EU will require capital market participants to start using the Legal Entity Identifier (LEI) as a unique company identification mechanism









From 2020 all EU listed companies will be required to apply a common European Single Electronic Format which adopts the Inline XBRL standard for digital representation of financial reports.

Sam \bigcirc O \bigcirc \bigcirc \bigcirc

Yet still, for an investor, the European capital market information is not conveniently accessible

en se

In 2017 the European Commission has started researching the possibility to use Blockchain technology to create a distributed record of financial reports across the EU

> European Financial Transparency Gateway powered by Distributed Ledger Technology

Currently in each country there is an offical registry called the Officialy Appointed Mechanism (OAM) that is responsible for distribution of regulated information received from listed companies



At present these registries are not connected in any usable manner



But what if these registries were connected through a decentralized network?



What if they became a "cloud-based" commonly accessible registry that synchronises national regulatory information automatically?



This is what we call the European Financial Transparency Gateway







Report Metadata

- Issuer Name
- Unique Issuer ID (LEI)
- Type of regulated information
- Report URL (OAM)
- **Report URL** (Issuer's IR website)

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Issuer's Home Member State
etc.



Report Metadata

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San

- Issuer Name
- Unique Issuer ID
- Type of regulated information
- Report URL (OAM)
- Report URL (Issuer)
- Issuer's Home Member State Etc.



Accessing information

European Financial Transparency Gateway powered by Distributed Ledger Technology















What are Distributed Ledger Technology advantages?

European Financial Transparency Gateway powered by Distributed Ledger Technology

SECURITY

Blockchain is a data structure that enables the creation of a digital ledger of transactions and share it within a distributed network of computers. It utilizes advanced cryptography to enable each participant on the network to use the ledger in a secure way without a central authority.





Because every node has their own copy of the complete ledger, even if some of them are compromised or offline, the system is still fully operational





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IMMUTABILITY

Due to the consensus protocol, the majority of the nodes (OAMs) have to approve information submitted by one of the nodes. When an outside party tries to submit a fraudulent information, it will be rejected.



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Concept


Environment



Token

The term 'token' here is synonym for 'meta data'.



Technical Architecture





XBRL files from https://www.esma.europa.eu/field-test-esef

Extension scenarios

What is the EFTG capable of?

European Financial Transparency Gateway powered by Distributed Ledger Technology Can DLT improve the cooperation between business registers in Europe?

Business Registers Interconnection System Can an investor identify small and medium entity by standardised code in DLT?

LEI central repository

Can an investor have instant and open public access to company prospectus?

The Prospectus Database

Can DLT be used to prove legal contracts?

Smart Contracts

Way ahead

Company establishment	Growth andCompany transformation,development stagelimitation or discontinuity				
Common actions (reporting, registration, announcements, notifications etc.)					
Registration of a company Initial Coin/Token Offering Application for public grants / funding Exemptions and privileges Tax reporting and registers	Initial Public Offering Prospectuses and KIIDs publication Issuance of debt securities Corporate actions publication Registration of related parties and subsidiaries Licences and permissions Application for public grants / funding Tax reporting and registers	Splits / mergers / acquisitions Nationalisation Filing for bankruptcy / insolvency Deregistration Going dormant Sanctions Prosecutions and regulatory warnings			
	Other actions and market-driven activities				
Investment and business plans publication Forecasts, prospects and plans announcements	Ratings publication Rankings and indices Certificates Corporate sustainability reporting Major internal corporate announcements International cooperation and trade events	Announcements of recovery plans Bankruptcy auctions			

Contact

michal.piechocki@br-ag.eu





INTRODUCTION TO MALAYSIAN BUSINESS REPORTING SYSTEM (MBRS)

Farid Ahmad Director of Marketing & Business Development Division Companies Commission of Malaysia

INTRODUCTION TO MBRS





Malaysian Business Reporting System (MBRS) is a submission platform based on the eXtensible Business Reporting Language (XBRL) format.

MBRS allows for the submission of:

- Financial Statements and Reports (FS);
- Annual Return (AR); and
- Exemption Applications (EA) which are related to the FS and AR applications.

REASONS FOR XBRL ADOPTION

- 1) Reduce time and cost of gathering financial and non-financial information, savings on data entry efforts and conversion of data formatting due to less human intervention.
- 2) Facilitate the analysis of financial reports for decision making (stakeholders).
- 3) The move to XBRL will provide SSM and other regulators with detailed data which can be aggregated and aid investigative efforts and other compliance.

COMPONENTS OF MBRS



4











Portal (mPortal)	

COMPONENTS OF MBRS



MBRS FIRST COMPONENT

SSM Taxonomy 2017 (SSMxT 2017)



SCOPE OF SSMxT 2017



- 1) Annual Return;
- 2) Financial Statements; and
- 3) Exemption Applications (EA) which are related to the FS and AR applications.

6

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SSM TAXONOMY SSMxT 2017 CONSULTATION PROCESS



SSM TAXONOMY SSMxT 2017 CONSULTATION PROCESS



a, 290 cial Porta eXtensible Business Reporting Language (XBRL) Surulianjaya Syanikat Nalaysia (35M) is currantly reviewing the previous 35M taxonomy 2012 (35MT 2012) based on the eXtensible Susiness Reporting Language (XSRL) format. As part of the process, SSM will conduct an external consultation on the reporting concepts or elements for SSM axionomy 2017 (SSMKT 2017) templates which have been developed based on the financial and non-finances as follows: 1. Companies Act 2016 (CA 2016); . Applying appropriate financial statements framework other using : a. Malaysian Private Entities Reporting Standards (MPERS) for private company that - Is not itself resulted to present or todge any financial statements under any law administend by the Securities Commission Habitysia or Bank happen Makayas, and Is not a subsidiary or associate of, or jointly controlled by, an entity which is required to prepare or looge any financial statements under any law administered by the Securities Commission Makaysia or Bank Negara Malaysia or b. Malavsian Financial Reporting Standards (NFRS) for public company. Consultative Document The following document shall explain about the objectives, overview and the explanatory notes of the SSM's SSM's Consultative Document on the XBRL Reporting Concept or Elements While the breakdowns of the SSMxT 2017 templates are as follows: Name of the Taxonomy Templete No. Name of the Taxonomy Tamplete & Pinancial Statement (PS) taxonomy tamplete Nor public or private comparise units (NTRS frammore) to propo franceal allocationness along with CA 2015 deviationariss. Are private comparison using NTRSS frammore's to propose franceal statements along with CA 2015 deviationaris. Per Company Limited by Guarantes (CLBS) using NTRS frammore's to propose framework addeministration with CA 2015 deviationary. MPRS Taxonomy Template_v1.10_14thJuly2017 MPERS TexanomyTemplate v1.6 17thJuly2017 3 CLBG Taxonomy Templets_v1.8_1903uly2017 framework to progress finances along with CA 2018 dealbasers. Semeans to logic exciting to excite the control of the sement private sampany as per diselence in CA 2018. For forego expressions to file these Statutary Destandon as per CA 2018, after their BA3 application has been approved by the Registrer. 4 EPC TexanomyTomalate v1.4 21stJuly2017 5 PC_Texonomy Template_v1.5_21stDuly2017 5 Key Fin After application under EA2 has been approved, the public or private company may lodge K73 using M783 framework along with CA 2016 disclosures. After application under EA2 has been approved, the private company may lodge K7 using M7858 framework along with CA 6 KFI_MFRS_TexonomyTemplate_v1.7_170July2017 KFI MPERS TexpnemyTemplate v1.7 17th/ulv2011 2016 disclosures 2016 disclosures After application under BA2 has been approved, CLBG may lodge 5 KP1_CLSG_TaxonomyTomplate_v1.7_17thJuly2017 KF1 using MPRS framework along with CA 2016 diadeaures After application under EA2 has been approved, foreign eor may lodge KF1 using MPRS framework along with CA 2016 dadesures C Down tion Application (PA) terror mplete For companies to file their application for exemptions or wak-per CA 2016. This process is only permissible for FS and AR related evolutions. 10 EA TexonomyTempleterv1.7-21thJuly2017 D Annual Raturn (AR) taxonomy templete 1_TexonomyTemplate-v1.9-24thJuly2013 r companies having share capital to lodge AR as per CA 2018 r companies not having share capital to lodge AR as per CA 12 AR2 TexonomyTemplatery1.9-24thJuly2017 2018 For foreign companies to lodge AR as per CA 2018 For companies to lodge AR as per CA 2016 in cases where there are no changes in perioulars since the previous AR lodge with 13 AR3_TaxonomyTemplate-v1.9-24thApril2017 14 AR4_TaxonomyTemplate-v1.9-24thouly2017 3314 welcomes views and comments on whether the identified concepts described were elearly understood or reflecting the

7 - Utusan Malaysia -Wednesday, 06 September 2017

SSM perkenal sistem pemfailan elektronik

KUALA LUMPUR 5 Sept. - Suruhanjaya Syarikat Malaysia (SSM) bakal menggunakan sistem pemfailan elektronik secara berperingkat di bawah Akta Syarikat 2016 yang diperkenalkan pada 31 Januari lalu.

Agensi itu dalam satu kenyataan berkata, syarikat yang ditubuhkan di bawah akta tersebut boleh melakukan pemfailan secara elektronik bagi maklumat penyata kewangan dan penyata tahunan bermula suku pertama 2018.

Katanya, sistemelektronik itu akan menggunakan format Extensible Businees Reporting Languange (XBRL) iaitu bahasa perisian komputer yang digunakan untuk merekod kandungan sesuatu dokumen bagi tujuan ményeragamkan laporan perniagaan. "Nadi kepada format XBRL adalah berdasarkan

COMPONENTS OF MBRS



MBRS SECOND COMPONENT

MBRS Tool (mTool)



MBRS PREPARATION TOOL (mTool)

Features

- MS Excel add-on application
- Form / Template driven
- User-friendly data collection
- Supports dual language for FS and Reports
- Inbuilt Taxonomy Browser
- Viewing & printing option available
- Offline and Online features
- Data imports from Word & XBRL Instance
- Data validation and quality checks
- Generate XBRL filings
- Support Office 2010 & above



BENEFITS OF USING mTool





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OVERALL FILING PROCESS IN mTool



COMPONENTS OF MBRS

MBRS

THIRD COMPONENT

MBRS Portal (mPortal)

^	>	Home
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Annual Return

- Filing Approval
- Filing History

b Download - Annexure : Particulars of Beneficial Owners

Lownload - Instruction for Annexure

Miscellaneous

- Create User Association
- Download Taxonomy
- Download MBRS Tool

Financial Statements

- Filing Approval
- Filing History

Rectification Request

- Rectification Application
- Rectification History



16:

MBRS PORTAL (mPortal)



Features

- Website Login and role rights based access (Lodger and Maker)
- Latest mTool version download facility
- Data validations and quality checks
- E-mail confirmations & status updates
- Rendering filings on web
- Supports dual language
- Provides compliance dashboard
- Reports generation engine
- Digital Signature facility
- Online payment facility





OVERALL FILING PROCESS IN mPortal





THANK YOU



An Overview



Leading XBRL Company with Products across the Information Supply Chain

- Full range XBRL solutions provider
- Offerings for creation, collection and consumption of structured data for financial reporting & compliance
- Clients in 16 countries covering 4 continents
- 300+ strong team of XBRL and structured data professionals
- Direct member of XBRL International and several other jurisdictions





The Business...

...Straddling the Information Reporting Supply Chain



Our Products







The eFiling Platform for Regulators

Value Proposition

Compliance Management powered by IRIS iFile

A modern electronic filing platform for collection of disclosures documents, analytics and decision making

 \star

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- Hybrid model of reporting standards. Supports XBRL and Non-XBRL standards
- Offers Multiple modes of submission via Web Forms, Desktop Tool, API Gateway and Automated Data Flow
- Modular architecture each component capable of functioning as a separate unit
- Works on open platforms and does not require any proprietary hardware and operating system
- Supports multiple formats like XBRL, CSV, JSON and Others
- Supports multiple languages
- Generic web forms builder and rule engine
- In-built business analytics and data monetization solution





iFile | System Overview



8

IRIS iFILE – Data Reporting



Multiple Formats	Multiple Ways of Data Preparation
 Fl's can submit data in multiple formats XBRL- Data that has interrelationships, Tabular and Multi-dimensional information. E.g. Capital Market Reports, Financial Statements CSV- For transactional data (E.g. Transactional data sent by Banks to Central Bank) Web Forms- Surveys, Announcements 	 iFile Excel based Desktop Tool- Manual key- in and attachments iFile Web – Data entry in web forms iDEAL ETL from FI's center data warehouse and report preparation Direct data flow from FI's system to Regulator's portal
Multiple Mode of Data Submission	Better User Experience
 Direct submission from Excel based desktop tool / WebApp tool via API Batch submission via SFTP 	 Review feature before submitting Retrieval of previous submissions Accessible taxonomy and other regulatory
 Automated data flow using iDeal. API's available for easy integration with other systems 	materialsInternal approval workflow replacing the need for manual approvals

- Output from iFile Desktop (Excel Add-on) is • uploaded to Regulator system using web portal
- documents to PDF/Word for easy accessibility

IRIS iFILE – Data Validation and Rendering



Collection & Admin

- Tracking of submissions or re-submissions;
- Audit trail for erroneous submissions
- Allows partial re-submissions
- Allows different channels for submission
- API based microservice architecture

Portal Application Set

- Customisable to meet your brandling guidelines
- Loosely coupled modules covering Submission Gateway, User Management, Filing Calendar & Reports.
- Workflow cutting across all modules



XBRL Validation Suite

- Comprehensive XBRL/iXBRL validation engine
- Ability to do selective XBRL Standard Checks
- API's available for easy integration with other products
- Facilitates Business rules check through Formula Linkbase

XBRL Rendering Engine

- Render XBRL document on Web
- Convert XBRL documents to PDF/Word
- Break XBRL document into logical small chunks
- Push XBRL data into an RDBMS





IRIS iFILE – Data Management and Analysis



Dataset Management Module

Data-Set management module

- Data definition of XBRL taxonomy and Non-XBRL. Large, granular structured datasets
- Template creation and management module
- Ad-hoc data collection using different formats
- XBRL conversion of other formats at Regulator system (if required)

Business Analytics

- Advanced analytics using IRIS Analytics
- CAMELS- Capital adequacy, Asset quality, Management, Earnings, and Liquidity and bank's Sensitivity to market risk
- Prudential reports and dashboards
- Machine learning and predictive analytics
- Ad-hoc reports

IRIS iFILE Features

A tool for filers to help them create the disclosure document in XBRL

IRIS iFILE Desktop Client and iFILE Web

iFILE Desktop Client

- MS Excel add-on application.
- API based reporting.
- Can generates the filing form based on the taxonomy.
- Integrated XBRL processor and Validation Engine.
- Allows importing data from MS Word or existing XBRL instance documents.
- Completely secure and does not require any ports to be opened.
- Requires MS Office 2010 and above.

iFILE Web

- Browser based application supporting extendible APIs
- Can generates the filing form based on the taxonomy.
- Once the form is opened in the browser the user can work offline on the form.
- Integrated XBRL processor and Validation Engine.
- Supports HTML 5 based web browsers (latest version of Internet Explorer, Chrome among others).
- Supports all XBRL concepts like footnote creation, changing contexts for particular items.






IRIS Bushchat

Comprehensive XBRL/iXBRL Validation Engine

Feature highlights

- Validate XBRL/inline XBRL instance documents against specifications.
- Covers XBRL 2.1, iXBRL 1.1 and Dimension 1.0 & Formula 1.0, Assertion Severity, Extensible Enumerations 1.0. Table linkbase 1.0, Taxonomy Package 1.0, Registries, Generic linkbase
- Validates XBRL taxonomies.
- Can be integrated with other applications using web services.
- Has real-time and batch processing capabilities.
- Asynchronous/multi-threaded processing

- Supports taxonomies extensions and instance document created using extensions.
- Error messages in multiple language.
- Supports multiple taxonomies.
- Scalable Architecture and built to handle high volumes.
- Uses a combination of advanced computing technologies to validate large instance documents efficiently.
- Ability to activate/deactivate processing of formula assertions on instance documents
- Inbuilt Taxonomy Repository



Custom Application

IRIS Noah

Collaborative Taxonomy Editor and Maintenance Tool

Feature highlights

- One-stop solution for creating, validating, testing, extending, maintaining, viewing and reviewing taxonomies.
- Web-based and collaborative application
- Supports XBRL 2.1, Dimension 1.0, Formula 1.0, Assertion Severity, Extensible Enumerations 1.0. Table linkbase 1.0, Taxonomy Package 1.0, Registries, Generic linkbase
- Inbuilt Taxonomy version management
- Inbuilt Taxonomy Repository
- Integrated Taxonomy validation engine

- Import & Export Taxonomy content from/to Spreadsheet
- Inbuilt User management system
- Supports Taxonomy labels in multiple languages
- Supports multiple taxonomy architecture.
- Login based workflow
- Hierarchical view for elements, DTS files
- Lock/Unlock taxonomy artifacts for editing
- Audit trail and Error logging service
- User dashboard and Notifications
- Access using any web browser







Case Study – Use of XBRL in credit exposure risk detection

CRILC Repository

Credit Repository Module (Leveraging XBRL)

- Module to help banks in credit appraisal of borrowers
- Based on Central Repository for Information on Large Credits (CRILC) returns
 - Captures credit exposure details of large borrowers based on reporting by different banks / Financial Institutions / Insurance Companies / Non-Banking Financial Companies
 - Aggregation of data by borrower possible due to standard reporting format facilitated by XBRL
- PAN of borrower used as basis of generating the report
 - PAN entries validated against Master which is supervised by RBI
 - Duplication of PAN not allowed in report
- XBRL ensures consistency in reporting data due to which summarization /aggregation is made easier

RBI – CRILC Framework

Central Repository of Information on Large Credits (CRILC)

• Share NPA information with other institutions

When	•Quarterly •As and When
Who	•Banks •NBFC •Insurance
What	 Large Borrowers > Rs 5 cr Funded and Non-funded Credit SMA-2 borrowers
How	•XBRL Format •PAN Identification for Borrower
Share	Borrower Exposure Asset Classification Instant Alerts





Credit Repository – Data Flow



Credit Repository Module (Reports)

The following reports are displayed in the CRILC Module and have been made available to banks:

- Bank's exposure to a borrower
- SMA-2 borrowers during a period
 - Data for Special Mention Accounts (SMAs) is also captured and acts as an early earning signal to banks
- Status of Classification of a Borrower
 - All instances of SMA-2 classification of the specified borrower by different banks
 - The asset classification as reported by different banks based on last 2 quarterly filings of CRILC return



Clients using iFile solution Securities Business Government **Banks Stock Exchanges** Regulators Registry \$ Suruhanjaya Sekuriti Securities Commission Malaysia SURUHANJAYA SYARIKAT MALAYSIA COMPANIES COMMISSION OF MALAYSIA Macedonia (Agensi di bawah KPDNKK) Malaysia Malaysia India India تــــداول QATAR FINANCIAL CENTRE هيئة الأوراق المالية والسلع Tadawul REGULATORY Securities & Commodities Authority AUTHORITY ACCOUNTING AND CORPORAT REGULATORY AUTHORITY وحمارات العربية Saudi Arabia UAE Singapore Qatar BANK OF MAURITIUS 15E THE CENTRAL BANK OF MAURITIUS กรมพัฒนาธุรกิจการค้า **Capital Markets Authority** JOHANNESBURG STOCK EXCHANGE Department of Business Development South Africa Mauritius Kuwait Thailand Mauritius



Fujitsu's XBRL Activities

2018.06.21 Fujitsu Limited

Copyright 2018 Fujitsu Limited

Fujitsu's XBRL Activites



XBRL Standard Development

- Member of the XBRL Standards Board (Mr.Masatomo Goto)
- Contribution to the specification development

Software : Interstage XWand

- ■XBRL processing engines/GUI tools
- ■400+ customers in 52 countries
 - •US SEC, Japan FSA, EBA, ECB, EIOPA, etc

Solution : Finplex RAPORTADO

■XBRL reporting platform which covers XBRL report creation, validation, management, and distribution

Services

Taxonomy development and quality assuranceTechnical support for developing XBRL systems

Interstage XWand



Cutting-edge XBRL framework & high-end tools



Powerfully supports XBRL application creation.
 Supports Java & .NET

Powerfully supports XBRL data creation.



XWand Reporter - XBRL Creation Tool Fujirsu

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Finplex RAPORTADO

XBRL based reporting platform which uses Interstage XWand as its engine.



RAPORTADO Provides Various Functions Necessary for Reporting Platform

Report Creation

Creating XBRL Report Using WebForm, ExcelForm

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Report Validation

- Highlighting Invalid Data with XBRL formula
- Providing an instant visual check.

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Report Management

- Managing Report to Comply with Regulations and Laws
- Monitoring Submissions

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Data Distribution

Converting Data for Effective Use in Other Systems



FUJTSU

shaping tomorrow with you



XBRL Japan Update in 2018

2018/06/21 XBRL Japan



Agenda

- 1. About us
- 2. Our activities
- 3. Project update



XBRL Japan Inc.

Membership

Established at April 25th, 2001, by 9 voting members.

Member	Number
Voting member	42 (Company/Association)
Non-voting member	1 (Individual)
Professor	24
Support member	3 (Association)

Member list

https://www.xbrl.or.jp/modules/pico3/index.php?content_id=17&ml_lang=en



XBRL Japan Inc.

1. About us

Organization



2. Our activities

Our Stakeholders



2. Our activities

Our Activities

Target	Discussion agenda or topics
Cabinet Office ,Government of Japan	 August 4^{th,} 2017 Explanation of the usage of non-financial information included in XBRL data
e-Receipt Proof of Concept	 February 13^{th,} 2018 Discussion about the necessary information to import e-Receipt data into ERP package using XBRL GL
National Tax Agency	May 15t ^{h,} , May 28 ^{th,} , June 14 ^{th,,} 2018 XBRL training session
Ministry of the Environment	Taxonomy review
Infrastructure for Multilayer Interoperability(IMI) Project	 XBRL Introduction Discussion about the financial domain vocabulary and maintenance of vocabularies
ISO PC295 (Audit data collection)	 Attendance of F2F meetings Feedback to the specification Explanation of the merit of XBRL using demonstration



XBRL Japan Inc.

3. Project update

Japan Use Case

Regulatory agency	System /Process	Implementation of XBRL	Cutover	Details
Financial Services Agency	EDINET	 Financial statement :detailed tag Foot note : blocked tag Inline XBRL 	Updated in January, 2013	 Mandatory The submitted XBRL data is exhibited. About 3,500 listed companies About 3,000 funds
Tokyo Stock Exchange	TDnet	 Summarized financial information Financial statement :detailed tag Foot note : blocked tag 	Updated in January, 2013	 Mandatory The submitted XBRL data is exhibited. About 4,500 listed companies
		 Corporate governance report 	July, 2008	- Qualitative information (non-financial information)
		 Reissued report of an earnings forecast Reissued report of dividend anticipation 	July, 2008	 It is submitted when correction of an earnings forecast and revision of dividend anticipation are made.
Bank of Japan		The monthly statement from a financial institution	February, 2006	- Use of the formula linkbase
National Tax Agency	e-Tax	Face of the Financial statements*	2004	 Implemented XBRL into the financial statements of a corporation tax report.
Ministry of the Environment	Environmental Reporting Platform	Environmental Reporting Platform	2021	400+ companies and 250+ investors participate in the PoC
		XBRL Japan In	C.	

Update of EDINET Taxonomy in 2019

- Mandates detailed tagging for IFRS-based financial statements
 - Currently the most of IFRS-based companies only report text blocks for financial statements
- New detail tags
 - Directors
 - Name, Position, Date of Birth, Career, etc
 - Number of male/female directors
 - Ratio of female directors
 - Corporate governance
 - Policy of corporate governance, investments, etc



XBRL Japan Inc.

Thank you.



XBRL Japan Inc.



Blockchain + XBRL

– Standardized Interchangeable Accounting Data

Avery Starr Managing Director





Supply Chain Finance

Applicability

- Trading of values
- Network of participants
- Implemented Applications
 - Trading of Accounts Receivable
 - Trading of Commercial Paper



Block Chain + XBRL

- □ Trading stamp on the chain
- Detailed data goes to XDC in the cloud
- The parallel word
 - Shared and distributed ledger: 100% trusting and open trading history
 - XDC data for big data analysis and synchronization with participants' internal systems
 - Complement the disadvantage of block Chain for inefficiency and data analysis





Data Flow

- 1 P1 listed as seller; P2 listed as buyer
- 2 Bulletin Board synchronizes listing from other national resources
- ③ P1 and P2 are matched
- 4 Value is traded, a new block (trading stamp) is added
- 5 Detailed trading data is stored into XDC
- 6 The detailed trading data is synchronized into participants' internal business systems. Glinp handles standardized data exchange of heterogeneous business systems.





Contact

Avery Starr Seatig Inc. 32 Broadway, Suite 1701, New York, NY 10004 Tel: (914) 584-0979 zhaow@seatig.com www.seatig.com