

# Highlights of IFRS 17

2021 Fall Meeting Jing Fritz Russ Osborn, Transamerica

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## **About Presenters**

- Jing Fritz, FSA, CFA, FRM, CERA, MAAA, was initially trained as an accountant and financial analyst and ended up working as an actuary and later financial risk manager for insurers before becoming a consultant. Her main focus areas are ALM & Hedging, IFRS 17 and 9, LDTI, market consistent valuation, and Financial Risk Management
- Russ Osborn, FSA, CFA, CERA, MAAA, is a risk management actuary, who has spent most of his career building new modeling and reporting frameworks and transitioning them into production – including pricing, embedded value, internal management frameworks, Solvency II, and now IFRS 17. He currently leads the development of IFRS 17 accounting policies for Transamerica



## Agenda

- Overview of IFRS 17
- IFRS 17 Measurement
- Deep Dive into Income Statement
- Transition Impacts
- Q&A





# **Overview of IFRS 17**

### **Timeline for IFRS 17**



\*Deferral of IFRS 17 and IFRS 9 included in IASB Exposure Draft issued in June 2019 and again amended in March 2020



#### **Balance Sheet Principle**

- Valuation foundation of IFRS 17: No arbitrage (a.k.a. market consistent valuation)
  - Traditional actuarial approach is based on the law of large numbers



- In practice
  - Insurance underwriting assumptions: traditional actuarial approach but with explicit margins
  - Financial markets / variables: market consistent to the extent that they are observable from the market



## Total Liability = BEL + RA + CSM

#### An example

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# **IFRS 17 Measurement**

#### **Initial Measurement**



#### **Contractual Service Margin (CSM) is a new item which brings challenges**



Challenges that CSM brings:

- No offset allowed between profitable and onerous groups of contracts. It requires specific grouping practice ("unit of account")
- Selection of appropriate driver (IFRS 17 term "coverage unit") to amortize CSM
- Treatment when positive assumption changes on onerous contracts requires tracking of loss component
- Determination of transition CSM



### **Meaning and Purpose of CSM**

- Ongoing, historical debate over market value accounting vs book value accounting: trade-offs
- When to recognize value added from new sales?
  - Market value accounting: entire value added booked into equity and P&L at new contract issuance → leaves little P&L for the future
  - Book value accounting: smooth earnings pattern; however, it gives no indication of value added at new contract issuance
- CSM is a practical and transparent way to resolve these challenges:
  - Value added at new contract issuance is booked into CSM, which is included on the balance sheet as a liability, unless negative, in which case it is immediately booked to P&L and equity
  - CSM is then amortized to zero over the service period of the contract, according to the insurance or investment services provided to the customer



#### **US GAAP\* Income Statement**

Statement of comprehensive income				
Premiums due	Х			
Claims and expenses incurred	(X)			
Movement in deferred acquisition costs	(X)			
Investment income	Х			
Change in insurance liability	(X)			
Other income, expenses, taxes	(X)			
Profit after tax	Х			
Other comprehensive income				
Investment income	Х			
Total other comprehensive income	Х			
Total comprehensive income	Х			



\* Current US GAAP reflects IFRS 4

#### **New IFRS Income Statement**

Statement of Comprehensive In	come		Release in contractual service margin		
Insurance contracts revenue	Y	<b>-</b>	Change in risk adjustment		_
insurance contracts revenue	^		Expected claims (in fulfilment cash flows)		7
Insurance service expenses	(X)		Expected expenses (in fulfilment cash flows)		ecte
Insurance service result	X		Allocating premium relating to the recovery of directly attributable acquisition costs		Exp
Insurance finance income	х		Excluding investment components		
Insurance finance expenses	(X)		Actual claims incurred	1	_
			Actual expenses incurred		. ‡
Finance result	X		Allocating premium relating to the recovery of		Ac
Other profit and loss	х			Ļ	
			Onerous contracts		
Corporate tax	(X)		Excluding investment components		
Profit after tax	х		Calculated using locked-in rates (if the OCI option is		
		·>	selected)		
Other comprehensive income	(X)				
Total comprehensive income	х		Effect of discount rate changes on BEL (if the OCI option is selected)		



## **Expected IFRS Profit**

(if OCI option elected)

unwind of Risk Adjustment

- + amortization of Contractual Service Margin (CSM)
- + investment spread over unwind of liability illiquidity premium
- + inventory difference between Assets & Liabilities, because Assets are based on statutory reserve requirements





# Deep Dive into Income Statement

## **Overview of IFRS 17 Income Impacts**

#### (Insurance liabilities only)





#### **IFRS 17 Measurement Models**

Measurement Model	General Measurement Model (GMM) – "Pure" GMM	General Measurement Model (GMM) – "Indirect" Participating	Variable Fee Approach (VFA)	Premium Allocation Approach (PAA)
Earnings Treatment of Financial Impacts on BEL + RA	P&L or OCI (choice)	Financial impacts are systematically allocated between P&L vs OCI Allocation options: • Effective Yield • Projected Credited Rate	adjusts CSM (by default) Risk Mitigation option: targeted financial impacts flow to P&L (to match hedge income in P&L)	P&L or OCI (choice)
Typical Products	Whole Life Insurance, Term Life Insurance	some Fixed Deferred Annuities, some Indexed Products	Variable Annuities, Variable Universal Life	P&C, Health



## **Impact of Changes in Financial Variables**

Case Study: OCI option is elected for all cases except Case 2

	Decision Level	Case 1	Case 2	Case 3	Case 4	Case 5
Does the policyholder participate in a substantial share of the fair value returns of a clearly identified pool of underlying items?	Product	Yes	Yes	If either answer is "No"		"
Does the entity expect a substantial proportion of any change in amounts to be paid to the policyholder to vary with the change in fair value of the underlying items?	Product	Yes	Yes			J
Does the entity choose to hedge all or part of the financial risk using FVPL securities?	Portfolio	No	Yes	N/A		
Do changes in financial markets / assumptions have a substantial effect on the amounts paid to the policyholders?	Product	N/A	N/A	Ye	es	No
Does the entity elect to report impacts of financial market / assumption movements through P&L or OCI?	Portfolio	OCI	P&L	0	CI	OCI
MEASUREMENT MODEL		VFA*	VFA with Risk Mitigation	"Indire ("Modifie	ct Par" ed VFA")	GMM*
Financial Impacts flow through		OCI	Hedged part: P&L Unhedged Part: CSM	Systematic Allocation: Effective Yield Method	Systematic Allocation: Projected Credit Rate Method	OCI



\*VFA = Variable Fee Approach (Direct Participating) \*GMM = General Measurement Model

## Impacts of Financial Changes (Profitable Cohorts)

#### (if OCI option elected)

- Example: Interest rate down 100bp
  - Assume impact as follows :
  - Shocked BEL Base BEL = 1000
  - Shocked RA Base RA = 50
  - (current assumptions BEL & RA for OCI, not locked-in)
  - Assume change to effective yield (or PCR) interest accretion: Decrease 3
  - Assume 10% amortization of CSM and release of RA (same % of coverage units)

	GMM-(pure)	Indirect Par	VFA-no hedge	VFA-100% hedge of BEL only
BEL	0 (locked in rate)	0 (locked in rate)	+ 1000	+ 1000
RA	0 (locked in rate)	0 (locked in rate)	+ 50	+ 50
CSM	0	0	- 1050	- 50
P&L	0	- 3 (interest accretion)	− 100 (∆RA & CSM amortization)	<ul> <li>– 1000</li> <li>(Risk Mitigation, amortization nets out)</li> </ul>
Equity	– 1050 ∆(OCI)	– 1053 ∆(OCI + P&L)	– 100 (no change in OCI)	– 1000 (no change in OCI)
	OCI can be offset by changes in Revaluation Reserve			RM offset by change in hedge P&L



- GMM (Pure)
  - locked-in rates in FCF\*
  - no change to FCF, CSM, or P&L
  - entire change goes to OCI
- Indirect Par
  - locked-in rates in FCF
  - no change to FCF, CSM
  - change to effective yield makes small change in P&L (no interest accretion on CSM)
  - majority flows through OCI

#### VFA (no Hedge) –

- current assumptions in FCF changes
- FCF is offset by CSM
- Small change in P&L from change in current RA release & CSM amortization
- VFA w/ Risk Mitigation

   (100% of BEL hedged) –
   same as VFA (no Hedge) except the following:
  - BEL impact transferred to P&L, not CSM
  - NOTE: P&L change in liability should be matched by hedge P&L, not shown

## Impacts of Financial Changes (Loss Status Cohorts)

#### (if OCI option elected)

- Example: Interest rate down 100bp
  - Assume impact as follows :
  - Shocked BEL Base BEL = 1000
  - Shocked RA Base RA = 50
  - (current assumptions BEL & RA for OCI, not locked-in)
  - Assume change from effective yield interest accretion of RA: Decrease 0.7
  - Assume 10% release of RA (same % of coverage units)

	GMM-(pure)	Indirect Par	VFA-no hedge	VFA-100% hedge of BEL only
BEL	0 (locked in rate)	0 (locked in rate)	+ 1000	+ 1000
RA	0 (locked in rate)	0 (locked in rate)	+ 50	+ 50
CSM	0	0	0	0
P&L	0	- 0.7 (interest accretion)	– 1045 (∆FCF + RA release)	– 1045 (∆FCF + RA release)
Equity	– 1050 ∆(OCI + P&L)	– 1050.7 ∆(OCl + P&L)	– 1045 (no change in OCI)	– 1045 (no change in OCI)
	OCI can be offset by changes in Revaluation Reserve			RM offset by change in hedge P&L

#### Financial impact rules

- GMM (Pure)
  - locked-in rates in FCF\*
  - no change to FCF, CSM, or P&L
  - entire change goes to OCI

#### Indirect Par –

- locked-in rates in FCF:
- no change to FCF, CSM
- change to effective yield makes small change in P&L (no interest accretion on CSM)
- majority flows through OCI
- VFA (no Hedge)
  - current assumptions in FCF changes,
  - no offset by CSM
  - small change in P&L from change in current RA release only
- VFA with Risk Mitigation (100% of BEL hedged) – same as VFA (no Hedge) except the following:
  - BEL impact transferred to P&L, not CSM
  - Change in Risk Adj transferred to P&L, because no CSM left
  - NOTE: P&L change in liability should be matched by hedge P&L, not shown

\*FCF = Fulfilment Cash Flows

#### **Investor Window into Impact of Changes in Financial Markets / Variables**

- Market value vs book value vs CSM
- Some investors may prefer the market value view; others may prefer "book value"
- Depending on the product classification, the business model and the entity's accounting presentation choices, investors can often obtain whichever view provides the most insight to the case at hand:
  - For example, for General Measurement Model contracts with OCI election, P&L will tell the "book" value story, and OCI will tell the remainder of the "market value" story
- Equity + CSM ←→ Value of Inforce (VIF)

→ some investors / analysts may prefer to focus on this metric





# **Transition Impacts**

#### **Transition for Inforce Business**

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#### Impact on P&L and RoE Post Transition

- Clean slate at transition (unless electing Transitional Accumulated OCI (AOCI); see later slides)
- Transition CSM depends on Transition approach (previous slide)
- In general, if initial Equity is lower, and the transitional CSM and Risk Adjustment are high, then P&L and RoE will be higher following transition to IFRS 17



### **Transitional AOCI\* Election\*\*: Background**

\*AOCI = Accumulated Other Comprehensive Income

#### IFRS 17.C24:

"In applying the fair value transition approach, if an entity chooses to disaggregate insurance finance income or expenses between profit or loss and OCI, it is permitted to determine the cumulative amount of insurance finance income or expenses recognized in OCI at the transition date:

- a) retrospectively—but only if it has reasonable and supportable information to do so; or
- b) as nil—unless (c) applies; and
- c) for insurance contracts with direct participation features to which paragraph B134 (holding underlying items) applies—as equal to the cumulative amount recognized in other comprehensive income from the underlying items."
- Sub-paragraph (c) is only relevant to assets in the separate account on VFA products that elect OCI option
- Given that transition options are selected at a lower level of granularity than the product portfolio level, this election may made at that lower level (i.e., at a lower level than P&L vs OCI option)
- At transition, the election of holding an AOCI balance on the liabilities does not impact the Balance Sheet; it is a movement within Equity between Retained Earnings and AOCI
- In the Income Statement, the election of Transition AOCI effects a transfer from OCI to P&L of the differential interest accretion between locking in historical rates vs locking in rates at the transition date

\*There is also a set of rules for computing AOCI under Modified Retrospective Approach to transition. However, this presentation focuses on the Fair Value approach)



## **Transitional AOCI\* Election : Considerations**

\*AOCI = Accumulated Other Comprehensive Income

- Possible alignment with AOCI on asset side (if well hedged)
- Computing transitional AOCI requires (estimates of) historical discount rate curves, apportioning the block according to inception year, and performing model runs by inception year (like Full or Modified Retrospective Approaches). Depending how far back the business was sold, this could require significant effort
- AOCI election would effectively nullify the philosophy behind the Fair Value transition approach, which aims to restate the value based on what a third party would pay for it on the transition date, and then to "start fresh" on reporting earnings from that point forward
- Electing AOCI on Fair Value blocks could put at risk impracticability arguments around Full Retrospective Approach
- Under IFRS 17, transitional AOCI is an election at the product group level, which would impact the liability AOCI only, moving the impact from Retained Earnings to AOCI (Revaluation Reserve)
- Without a transitional AOCI election, the liability offset to the Revaluation Reserve (liability AOCI) would re-start at zero
- On the asset side, given that asset AOCI is determined by the IFRS 9 asset categorization, the AOCI is unimpacted by any such election (assuming no asset rebalancing)
- In either case, any future impact due to financial market movements would flow to AOCI post-transition





