

Why the level of grouping – and the approach to coverage units by group – really matters

A group of two contracts

Contract 1: term life

- Inception CSM 1000
- Coverage period 10 years
- Coverage units per period 10

Contract 2: accidental death

- Inception CSM 2000
- Coverage period 5 years
- Coverage units per period 5

B119(b)

"allocating the contractual service margin [for the group] at the end of the period (before recognising any amounts in profit or loss to reflect the services provided in the period) equally to each coverage unit provided in the current period and expected to be provided in the future."

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Contract 1: term life

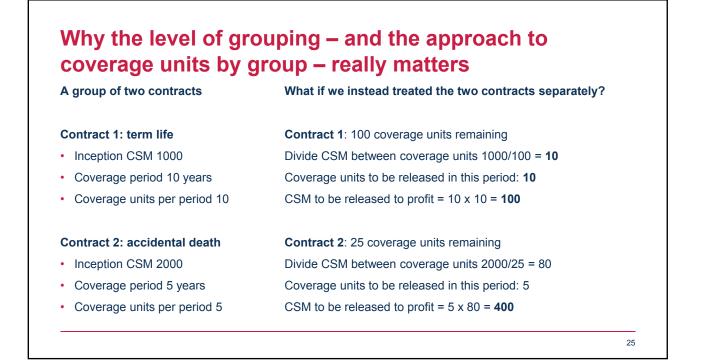
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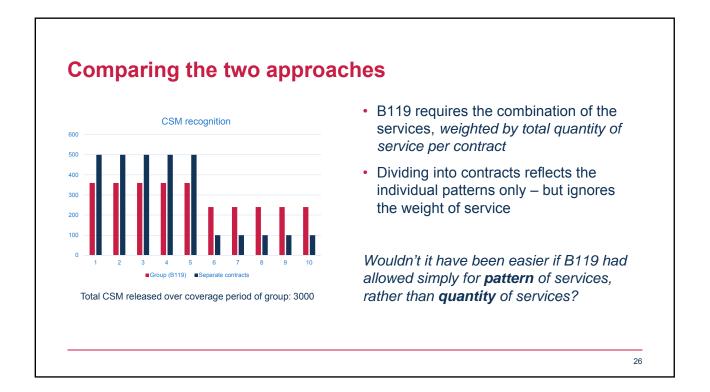
Contract 2: accidental death

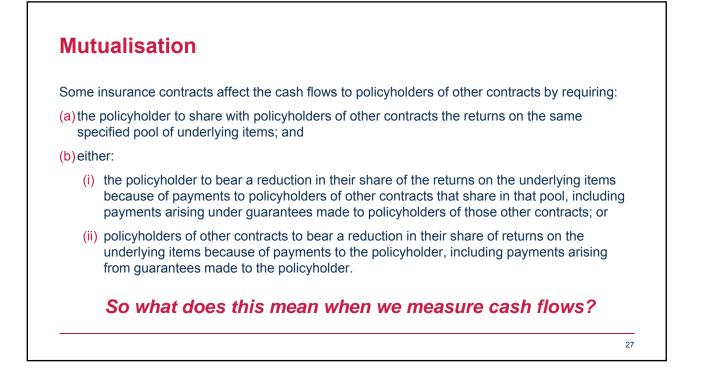
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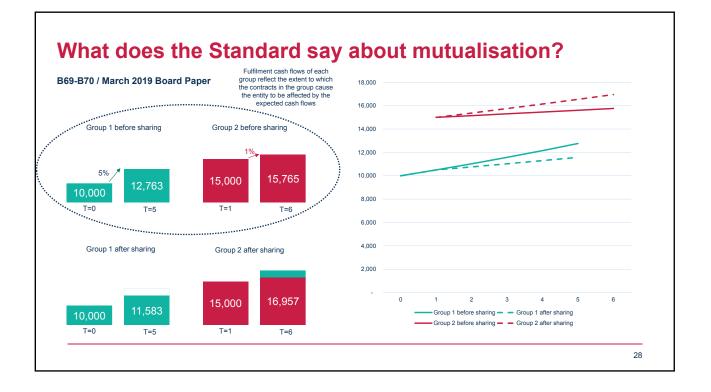
Total CSM for the group 3000

- Total coverage units remaining: 125 (10x10 + 5x5)
- Divide CSM between coverage units: 3000/125 = 24
- Coverage units to be released in this period: 10+5 = 15
- CSM to be released to profit = 15 x 24 = 360

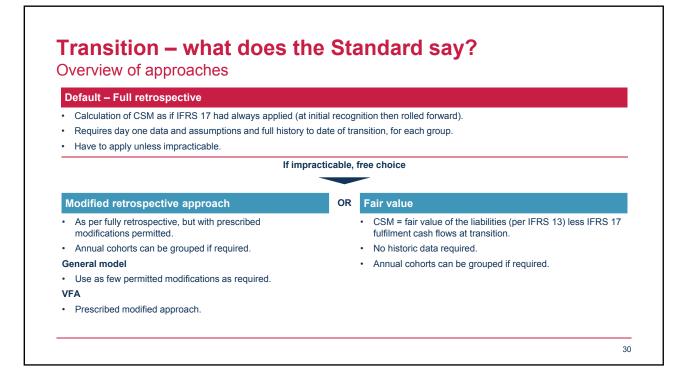


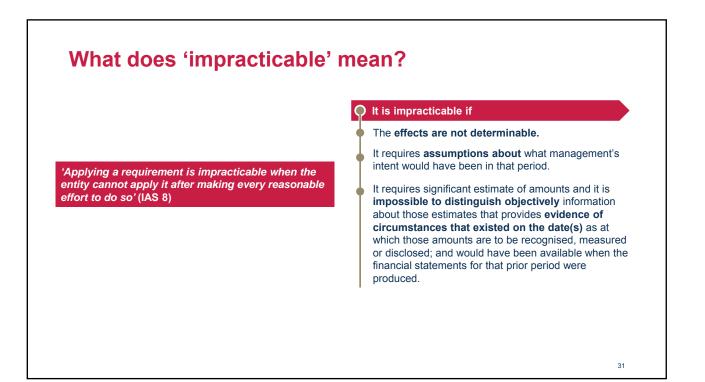


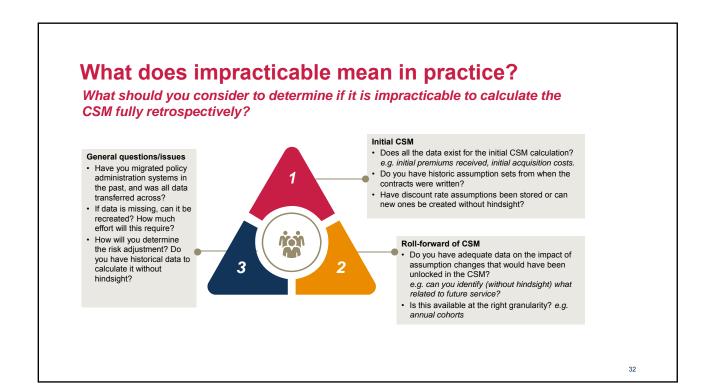






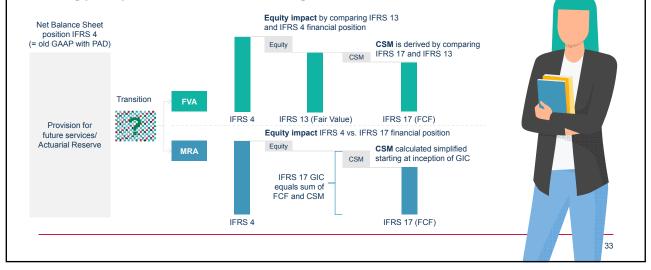






Transition approaches solve the old topic of having a choice ...

What will be your transition story and how will you shape your future financial reporting steering principles and stakeholder messages?



The fair value approach

IFRS 13

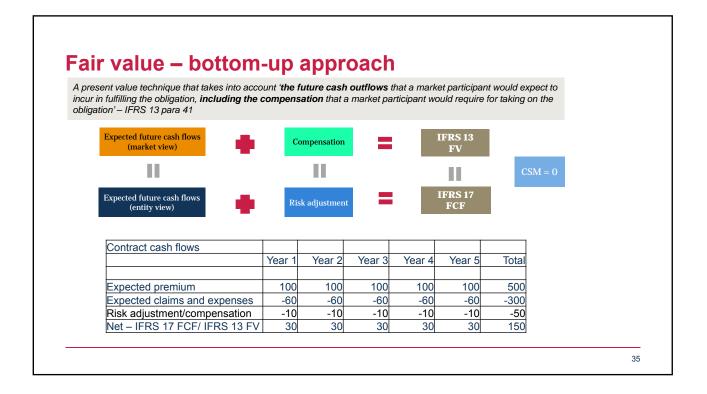
The price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date'

A range of approaches to calculate fair value are currently seen in the market. The calculation can be thought of using a 'top-down' vs. 'bottom-up' approach.

Top-down – Calibration of overall fair value to observable and relevant data.

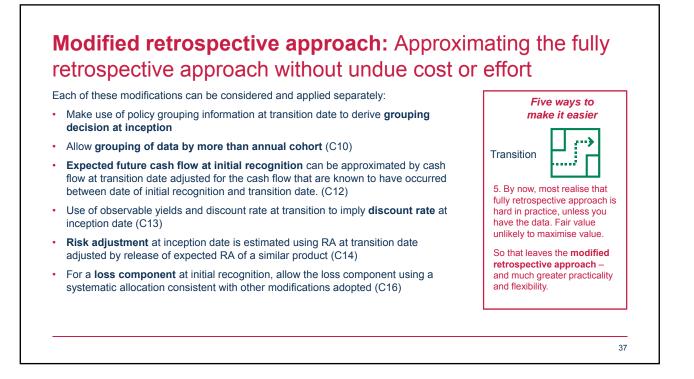
Bottom-up – Discounted cash flow technique, using a market participant view of best estimate cash flows plus the compensation required by the market participant to take these on.

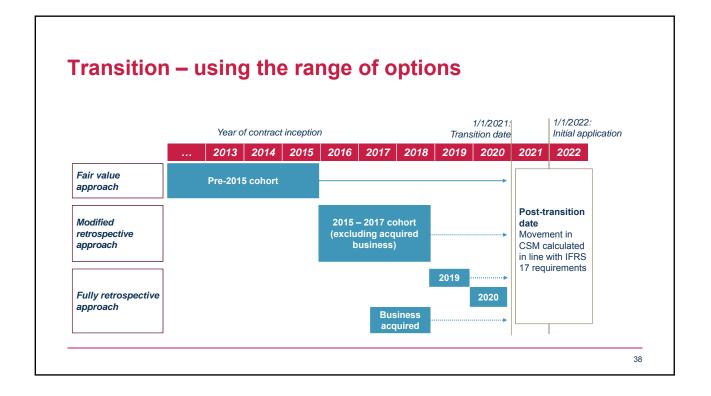




Potential differences other than risk adjustment

	$\overrightarrow{FV} \text{ (Liability)} \qquad \overrightarrow{f} \qquad \longrightarrow \qquad CSM \qquad \overrightarrow{f}$	
PV of future cash flows	Potential differences between IFRS 17 FCF and IFRS 13 FVM	Impact on CSM at transition
Model assumptions	Market view might differ from entity's view in some aspects, including	
	- Demographic assumptions (eg future population mortality improvement)	
	- No brand protection outflows (average market participant)	+
Expenses	A market participant may include different expenses in fair value	
	- Not directly related to fulfilment of contracts, eg allocation of overheads	
	- Related to fulfilment of contracts, but different from entity's cost base	
Discount rate		
- Liquidity premium	Under IFRS 17 top down approach, no required adjustment to reference portfolios for differences in liquidity characteristics. IFRS 13 requires discount rate to reflect nature of asset/liability	★ ₩
- Non-Performance risk	Non-performance risk should be considered in FVM, but not in IFRS 17 FCF	+











Learning points in implementation of China Accounting Standard since 2009 (2/3)

- Volatility of profits make some insurers to consider non GAAP measure
 - Update of market and non market variables will lead to volatile profits.
 - Some insurers published non GAAP measure, e.g., operating profits to remove market volatility.
 - IFRS17 will have more stable profits by CSM un-locking and OCI option.
- Unbundling of investment component leads to change of business mix
 - For universal life and unit linked business, the account value is unbundled under CAS. This accounting treatment will reduce the premium income reported and leads to low sales volume of universal life and unit linked business.
 - Whether new metrics under IFRS17 will lead to change in business mix remains unclear and requires further analysis.

Learning points in implementation of China Accounting Standard since 2009 (3/3)

- Practical solutions were taken to reduce implementation cost and manage the results.
 - 3 year moving average rate is introduced to reduce the impact of change of market rate as most invested assets are valued at amortised cost.
 - Use of PAD for non financial risk variables as risk margin reduces implementing cost and difficulties
 - Those practical solutions will be reconsidered under IFRS17.

- Tax need to be considered strategically
 - Payment arrangement for increase in retained profits. It would be beneficial to whole industry by negotiating a better payment plan.
 - Deduction cap of commissions is not clearly defined, which leads to many case of tax penalties.
 - The industry shall not repeat the mistake under IFRS17.



Products with large investment elements reveal accounting technical issues

Loss component due to interest deficit

- Valuation rate is lower than interest rates implied in pricing, which results in loss components.
- Allocation of LC to expected insurance claim (which is very small) will result in negative revenue at group level. Is negative revenue allowed?
- Shall LC be allocated to investment component only? Will revenue equation still hold?

Deposit of dividends/survival benefits

- 2019 April TRG paper, submission 92 indicates that dividends declared will be included in LIC not LRC.
- When calculating CSM at inception, future spread earned over risk free rate for DoD will be included in CSM. If declared dividends are included in LIC, then variance in timing could not be absorbed by CSM, which could lead some mis-alignments.



Stochastic technique is not widely used in risk modelling

- · Time value of guarantees
 - Risk neutral valuation is likely to be used.
 - Implied volatility may not exist as no derivative is traded.
 - Risk neutral scenarios generation is critical
- · Possible simplifications
 - May use historic volatility
 - Consider some simple model, e.g. Geometric Brownian Motion

- Risk adjustment
 - Value at Risk is likely to be used
 - Liability may not has the similar distribution as the risk driver
 - VaR does no pass sub-addivity test f(x+y)<=f(x)+f(y), which may distort allocation of diversification
- Possible simplifications
 - Normal distribution of risk driver
 - Polynomial approximation
 - Negative RA at group?

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Bonus policy and credit rate policy are not well defined.

- Management action and smoothing is not clearly defined
 - Could not construct a payout function when calculating TVOG
- Possible practice
 - No smoothing is considered, which may lead to high cost of guarantee.
 - Construct simple payout function but need management to approve

- Specifying discretion
 - Entity could not specify commitment and discretion for non-direct participating contracts due to lack of clearly defined bonus policy.
- Possible practice
 - Applying B100, "it shall regard its commitment to be the return implicit in the estimate of the fulfilment cash flows at inception", i.e., all updated will be related to financial risk.

Technical interpretations/simplifications may reduce implementation cost significantly

- Contract combination
 - Cash flow inter-related riders have to be combined.
 - If a rider can be attached to different main products, it may not have to be combined.
- Prepaid premium
 - Does a payment made before contract formation constitute premium payment? Could it be deposit of future contract?
 - Shall policy provision specify the date of first premium due?

- Contract boundary
 - Maturity payments/survival payments are paid into a universal account
 - Is the universal policy within the contract boundary of the existing policy
- Policy Loan
 - Non distinct investment component, which is part of cash flows of insurance contact, which need new valuation data and assumptions, e.g., loan balance, take-up rate, redemption pattern,
 - Model as floating loan

