3rd Capacity Building Seminar on IFRS 17 Hotel Pllazio 10 May 2019

IFRS 17 cash flow illustration for a Non Participating Savings product: General Measurement Model



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Agenda



- Background and key definitions
- Non-onerous contract: Illustrative example on preparing P&L
- Sensitivity of the P&L to various parameters
- Treatment of onerous contract

Background: IFRS 17



- In May 2017, the International Accounting Standards Board (IASB) issued the standard, IFRS 17 Insurance Contracts, with a proposed effective date of 1 January 2021. The effective implementation date for India at present is 1 April 2020.
- IFRS 17 is the **first serious attempt** to produce a **single global accounting standard** covering insurance contracts with a consistent measurement basis.
- IFRS 17 is a principle-based standard allowing an entity to make several choices. Therefore, multiple IFRS 17 compliant P&L's are possible at an entity level.
- IFRS 17 is a **significant challenge** to the insurance industry across the **entire data, valuation, accounting and reporting chain**.

Measurement models





General Measurement Model (Building Block Approach) Institute of Actuaries of India **Contractual** service margin (CSM) Risk Discounting adjustment Total Insurance Contract Liability Expected Cash Flows

General Measurement Model (Building Block Approach)

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Block 1

 Present value of future cash flows: estimate the future cash flows of a contract within the contract boundary; and adjust for time value:

Present value of cash outgoes – Present value of cash income

- Incorporate, in an unbiased way, all reasonable and supportable information available without undue cost or effort about the amount, timing and uncertainty of those future cash flows. To do this, an entity shall estimate the expected value (i.e. the probability-weighted mean) of the full range of possible outcomes
- Adjust to reflect the **time value of money** and the financial risks related to the future cash flows, to the extent that the financial risks are not included in the estimates of the future cash flows

General Measurement Model (Building Block Approach)



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Block 2

• Reflects the compensation that the **entity** requires for bearing the uncertainty about the amount and timing of the cash flows that arises from **non-financial risks**

General Measurement Model (Building Block Approach)



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Total Insurance Contract Liability Expe



Block 3

- Quantifies **unearned profit** insurer expects to earn as it fulfils contract
- Ensures no gain at initial recognition:

i.e. -(Present Value of Future Cash flows + Risk Adjustment)

- Allocated over coverage period
- Cannot be negative.

Key definitions (1)



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Group of insurance contracts

- A set of insurance contracts resulting from the division of a **portfolio** of insurance contracts into, at a minimum, contracts written within a period of **no longer than one year** and that, at initial recognition:
- (a) are onerous, if any; (b) have no significant possibility of becoming onerous subsequently, if any; or (c) do not fall into either (a) or (b), if any.

Onerous contract

• An insurance contract is onerous at the date of initial recognition if the fulfilment cash flows allocated to the contract, any previously recognized acquisition cash flows and any cash flows arising from the contract at the date of initial recognition in total are a **net outflow**.

Loss component

- Represents the amount of loss on the contract (just as CSM represents the unearned profit)
- Recognized immediately in profit and loss as soon as contract turns onerous
- Excluded from determination of insurance revenue



IFRS 17: A typical P&L statement



Components of a P&L statement	
Insurance service revenue	Α
CSM recognized for services provided	
Change in risk adjustment for non-financial risk	
Release of expected incurred claims and other insurance service expenses	
Recovery of insurance acquisition cash flows	
Insurance service expense	В
Incurred claims and other insurance service expenses	
Loss and reversal on onerous contracts	
Amounts attributed to insurance acquisition cash flows	
Insurance service result	C = A + B
Finance result	D
Investment Income	
Insurance finance expense	
Profit (Loss)	E = C + D



Illustrative example: General Measurement Model



Product details



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Product features					ŗ		
Product type	Non-participati	ing endowment					
Term	5 year regular	5 year regular pay product					
Premium	INR 17,250 payable annually						
Sum Assured	INR 100,000 : payable on death and maturity						
Surrender value:	1	2	3	4	5		
	0	20,000	42,000	72,000	100,000		
Commission rate	1	2	3	4	5		
	10%	7.5%	5%	5%	5%		
Projection assumptions	1	2	3	4	5		
# of policies in group at initial recognition	100 policies						
Interest rate (discount rate)	8% p.a. throug	jhout					
# of deaths	1	1	1	1	1		
# of deaths# of surrenders	1 20	1 12	1 10	1 5	1 0		
# of deaths# of surrendersInsurance acquisition expense	1 20 15% of first ye	1 12 ar premium	1 10	1 5	1 0		
# of deaths# of surrendersInsurance acquisition expenseOther service expenses	1 20 15% of first ye INR 500 per pe	1 12 ar premium olicy, inflating at	1 10 t 5% p.a.	1 5	1 0		
 # of deaths # of surrenders Insurance acquisition expense Other service expenses Risk adjustment (as % of PVCF) 	1 20 15% of first ye INR 500 per pe 5%	1 12 ar premium olicy, inflating at 0.10%	1 10 t 5% p.a. 0.05%	1 5 0.04%	1 0 0.03%		



Expected cash flows

- 100 identical contracts are assumed to be issued on the same date.
- All contracts are expected to behave identically therefore, can be assumed to be in the same group without need for additional testing.
- The cash flows for each contract are projected using the set of assumptions defined previously and aggregated.
- Reinsurance is not considered: accounted for separately under IFRS 17

Year	No. of pols (end)	Premium	Commission	Acquisition expense	Other expense	Death Outgo	Surrender Outgo	Maturity Outgo	Net Cash flow (outgo less income)
		(+)	(-)	(-)	(-)	(-)	(-)	(-)	
1	79	1,725,000	172,500	258,750	50,000	100,000	0	0	(1,143,750)
2	66	1,362,750	102,206	0	41,475	100,000	240,000	0	(879,069)
3	55	1,138,500	56,925	0	36,383	100,000	420,000	0	(525,193)
4	49	948,750	47,438	0	31,835	100,000	360,000	0	(409,478)
5	48	845,250	42,263	0	29,780	100,000	0	4,800,000	4,126,792



Profit & Loss account

Scenario: Experience over the years is consistent with the assumptions

Components of a P&L statement	1	2	3	4	5
Insurance service revenue	236,147	193,140	155,059	114,866	85,465
CSM recognized for services provided	15,638	14,109	12,699	12,218	12,926
Change in risk adjustment for non-financial risk	1,684	55	62	124	941
Release of expected incurred claims and other insurance service expenses	150,000	121,475	94,383	59,835	29,780
Recovery of insurance acquisition cash flows	68,826	57,500	47,917	42,689	41,818
Insurance service expense	(218,826)	(178,975)	(142,299)	(102,524)	(71,598)
Incurred claims and other insurance service expenses	(150,000)	(121,475)	(94,383)	(59,835)	(29,780)
Loss and reversal on onerous contracts	0	0	0	0	0
Amounts attributed to insurance acquisition cash flows	(68,826)	(57,500)	(47,917)	(42,689)	(41,818)
Insurance service result	17,321	14,165	12,760	12,342	13,867
Finance result	229	95	90	85	75
Investment Income	99,500	195,581	266,503	314,753	363,996
Insurance finance expense	(99,271)	(195,487)	(266,413)	(314,668)	(363,920)
Profit (Loss)	17,550	14,259	12,850	12,427	13,943



Initial recognition

At initial recognition - cash flow projection takes into account first premium; and insurance acquisition cash flows.





End of Year 1: Insurance Contract Liabilities

Scenario:

- Experience over the year is consistent with the assumptions
- Projection assumptions remain unchanged from those at initial recognition





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End of Year 1: Calculation of CSM



Experience adjustment for premium received

Changes in estimates of cash flows relating to future service

Difference between expected and actual investment component paid in the period

Change in risk adjustment for future service

CSM cannot be negative/loss reversal

Allocation based on coverage units

Profit not yet recognised









Profit & Loss account

Scenario: Experience over the years is consistent with the assumptions

Components of a P&L statement	Year 1	
Insurance service revenue	236,147	
CSM recognized for services provided	15,638	\checkmark
Change in risk adjustment for non-financial risk	1,684	= 2,865 - 1,181
Release of expected incurred claims and other insurance service expenses	150,000	
Recovery of insurance acquisition cash flows	68,826	
Insurance service expense	(218,826)	
Incurred claims and other insurance service expenses	(150,000)	
Loss and reversal on onerous contracts	0	
Amounts attributed to insurance acquisition cash flows	(68,826)	
Insurance service result	17,321	
Finance result	229	
Investment Income	99,500	
Insurance finance expense	(99,271)	
Profit (Loss)	17,550	

Based on initial projection

Year	RA
1	2,865
2	1,181
3	1,126
4	1,065
5	941



Profit & Loss account

Release of expected incurred claims and other insurance service expenses

Incurred claims and other insurance service expenses

	Premium (+)	Commission (-)	Acquisition expense (-)	Other expenses (-)	Insurance component (-)	Investment component (-)
Expected (E)	1,725,000	172,500	258,750	50,000	100,000	0
Actual (A)	1,725,000	172,500	258,750	50,000	100,000	0
A - E	0	0	0	0	0	0

In year 1, as surrender benefit is nil, insurance component = death benefit



Profit & Loss account

Scenario: Experience over the years is consistent with the assumptions

Components of a P&L statement	Year 1	
Insurance service revenue	236,147	
CSM recognized for services provided	15,638	\checkmark
Change in risk adjustment for non-financial risk	1,684	\checkmark
Release of expected incurred claims and other insurance service expenses	150,000	✓
Recovery of insurance acquisition cash flows	68,826	
Insurance service expense	(218,826)	
Incurred claims and other insurance service expenses	(150,000)	\checkmark
Loss and reversal on onerous contracts	0	
Amounts attributed to insurance acquisition cash flows	(68,826)	
Insurance service result	17,321	
Finance result	229	
Investment Income	99,500	
Insurance finance expense	(99,271)	
Profit (Loss)	17,550	



Profit & Loss account

Scenario: Experience over the years is consistent with the assumptions

Components of a P&L statement	Year 1	
Insurance service revenue	236,147	\checkmark
CSM recognized for services provided	15,638	\checkmark
Change in risk adjustment for non-financial risk	1,684	\checkmark
Release of expected incurred claims and other insurance service expenses	150,000	\checkmark
Recovery of insurance acquisition cash flows	68,826	\checkmark
Insurance service expense	(218,826)	\checkmark
Incurred claims and other insurance service expenses	(150,000)	\checkmark
Loss and reversal on onerous contracts	0	\checkmark
Amounts attributed to insurance acquisition cash flows	(68,826)	\checkmark
Insurance service result	17,321	\checkmark
Finance result	229	
Investment Income	99,500	
Insurance finance expense	(99,271)	
Profit (Loss)	17,550	



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Profit & Loss account

Investment income:

= income earned on asset at start of period and beginning of period cash flows

= (1,725,000 - 172,500 - 258,750 - 50,000) x 8%

= 99,500

	Premium (+)	Commission (-)	Acquisition expense (-)	Other expenses (-)	Insurance component (-)	Investment component (-)
Expected (E)	1,725,000	172,500	258,750	50,000	100,000	0
Actual (A)	1,725,000	172,500	258,750	50,000	100,000	0
A - E	0	0	0	0	0	0

Insurance finance expense

= Income on liability of effect of time value of money and effect of financial risk

= As discount rate is same as earned rate, this will represent unwind of discount rate on opening liability and cash flows

= (-57,300 + 54,435) x 8% + 99,500 = 99,271



Profit & Loss account

Scenario: Experience over the years is consistent with the assumptions

Components of a P&L statement	Year 1	
Insurance service revenue	236,147	\checkmark
CSM recognized for services provided	15,638	\checkmark
Change in risk adjustment for non-financial risk	1,684	\checkmark
Release of expected incurred claims and other insurance service expenses	150,000	\checkmark
Recovery of insurance acquisition cash flows	68,826	\checkmark
Insurance service expense	(218,826)	\checkmark
Incurred claims and other insurance service expenses	(150,000)	\checkmark
Loss and reversal on onerous contracts	0	\checkmark
Amounts attributed to insurance acquisition cash flows	(68,826)	\checkmark
Insurance service result	17,321	✓
Finance result	229	✓
Investment Income	99,500	
Insurance finance expense	(99,271)	\checkmark
Profit (Loss)	17,550	\checkmark

Difference arises as insurance finance expense has not been determined for risk adjustment.

IFRS 17 allows you to make this choice



Profit (or loss) is ultimately = Change in assets less change in liabilities

Typical components for an AoM	These can also be presented as	Fulfilment cash flows	CSM	P&L impact
Opening value	Opening value	+	+	
+ New contracts	Fulfilment cash flows from new contracts at initial recognition	+	-	Nil
	Interest on opening value at locked-in rate	+	+	Insurance finance expense
 Unwind of discount rate 	Difference in interest between beginning of period discount rate and locked in rate on opening value	+		Insurance finance expense
	Actual outgo less income	-		See experience variance
 Cash flows expected to occur in the inter-valuation period 	Experience variance: Actual less Expected for – premiums, investment component and acquisition expenses	+	-	Nil
	Experience variance: Actual less Expected for – insurance component and other expenses	+		Insurance service revenue: expected CF Insurance service expense: actual CF
 Impact of change in non- economic assumptions 	Change in PV of future cash flows (on locked-in			
 change in future cash flows due to experience variance 	interest rate)	+	-	Nil
 Impact of change in economic assumptions 	Impact of change in end of period discount rate assumption	+		Insurance finance expense
	Amortisation of CSM		-	Insurance service revenue
Closing value	Closing value	=	=	



P&L Scenarios





Year 2 – Statement of profit and loss

Components of a P&L statement	Year 2
Insurance service revenue	193,140
CSM recognized for services provided	14,109
Change in risk adjustment for non-financial risk	55
Release of expected incurred claims and other insurance service expenses	121,475
Recovery of insurance acquisition cash flows	57,500
Insurance service expense	(178,975)
Incurred claims and other insurance service expenses	(121,475)
Loss and reversal on onerous contracts	0
Amounts attributed to insurance acquisition cash flows	(57,500)
Insurance service result	14,165
Finance result	95
Investment Income	195,581
Insurance finance expense	(195,487)
Profit (Loss)	14,259

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Insurance and investment component

Definition: The amounts that an insurance contract requires the entity to repay to a policyholder even if an insured event does not occur.

Our understanding: This amount implicitly belongs to the policyholder and therefore should not be included as revenue. This includes any amounts paid at maturity or surrender, as well as the amount of cash surrender value that is implicit in the amounts paid when the insured event happens.

Year	Surrender Value/ Maturity value	Investment component		Insurance component		
1	0	0				100,000
2	20,000	20,000				80,000
3	42,000	42,000	Death benefit less Investment component		58,000	
4	72,000	72,000				28,000
5	100,000	100,000				-
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Subsequent measurement – Scenario 1

of deaths in year 2 is 1 more than expected

	Expected	Actual
No of Deaths	1	2
No of Surrenders	12	12
Premium (+)	1,362,750	1,362,750
Commission (-)	102,206	102,206
Renewal expenses (-)	41,475	41,475
PV Future cash flows	2,252,470	2,217,089
Insurance component (-)	80,000	160,000
Investment component (-)	260,000	280,000

Total outgo = death outgo + surrender outgo = 440,000

This can also be expressed as sum of investment component outgo + insurance component outgo; where

- Investment component outgo = Investment component x (# deaths + # surrenders) = 20,000 x 14 = 280,000
- **Insurance component outgo** = Insurance component x # deaths = 80,000 x 2 = 160,000



Subsequent measurement – Scenario 1

	CSM movement	Notes
Opening CSM	43,152	= CSM at the end of year 1
Interest (on locked-in rate)	3,452	= 8% x Opening CSM
Changes in the PV of future cash flow	35,381	= 2,252,470 - 2,217,089
Changes related to risk adjustment	18	= 0.05% * change in PV CFs
Difference between expected and actual investment component paid in the period, premiums and acquisition expense	(20,000)	= 260,000 - 280,000
CSM before allocation to Profit and Loss	62,002	= sum of the above
CSM allocated to Profit and Loss	(18,771)	= CSM before allocation x release factor
Carrying amount of CSM	43,231	



Subsequent measurement – Scenario 1

	CSM movement		
Opening CSM	43,152		
Interest (on locked-in rate)	3,452		
Changes in the PV of future cash flow	35,381		
Changes related to risk adjustment	18		
Difference between expected and actual investment component paid in the period, premiums and acquisition expense	(20,000)		
CSM before allocation to Profit and Loss	62,002		Risk adjustment
CSM allocated to Profit and Loss	(18,771)	Opening	1,181
Carrying amount of CSM	43,231	Changes related	
		to future service	(18)
		Changes related to current service	(55)
		Carrying amount	1,109
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Subsequent measurement – Scenario 1

	CSM movement	Coverage	
Opening CSM	43,152		
Interest (on locked-in rate)	3,452	30%	Revision to
Changes in the PV of future cash flow	35,381	25%	pattern of service provision
Changes related to risk adjustment	18	22%	(coverage units)
Difference between expected and actual investment component paid in the		22%	
period, premiums and acquisition	(20,000)		Risk adjustment
CSM before allocation to Profit and Loss	62,002	Opening	1 101
CSM allocated to Profit and Loss	(18,771)		1,101
Carrying amount of CSM	43,231	Changes related to future service	(18)
		Changes related to current service	(55)
		Carrying amount	1,109



Comparison – Scenario 1 Year 2 Statement of Profit and Loss

	Expected	Actual
Insurance service revenue	193,140	197,802
CSM recognized for services provided	14,109	18,771
Change in risk adjustment for non-financial risk.	55	55
Release of expected incurred claims and other insurance service expenses	121,475	121,475
Recovery of insurance acquisition cash flows	57,500	57,500
Insurance service expense	(178,975)	(258,975)
Incurred claims	(121,475)	(201,475)
Loss and reversal on onerous contracts		
Amounts attributed to insurance acquisition cash flows	(57,500)	(57,500)
Insurance service result	14,165	(61,173)
Finance result	95	95
Investment Income	195,581	195,581
Insurance finance expense	(195,487)	(195,487)
Profit (Loss)	14,259	(61,079)

Key Highlights:

- Change in CSM recognized in revenue
- No change in Risk adjustment recognized in revenue
- ✓ Increase in insurance service expense

No change in Finance results

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Subsequent measurement – Scenario 2

- # of deaths in year 2 is 1 more than expected
- Future expectation of deaths in year 3 increased from 1 to 2.

	Expected	Actual	
No of Deaths	1	2	
No of Surrenders	12	12	
Premium (+)	1,362,750	1,362,750	
Commission (-)	102,206	102,206	
Renewal expenses (-)	41,475	41,475	
PV Future cash flows	2,252,470	2,258,465	a change of 5,995
Insurance component (-)	80,000	160,000	
Investment component (-)	260,000	280,000	

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Subsequent measurement – Scenario 2

	CSM movement
Opening CSM	43,152
Interest (on locked-in rate)	3,452
Changes in the PV of future cash flow	(5,995)
Changes related to risk adjustment	(3)
Difference between expected and actual investment component paid in the period, premiums and acquisition expense	(20,000)
CSM before allocation to Profit and Loss	20,606
CSM allocated to Profit and Loss	(6,239)
Carrying amount of CSM	14,368



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Subsequent measurement – Scenario 2

	CSM movement		
Opening CSM	43,152		
Interest (on locked-in rate)	3,452		
Changes in the PV of future cash flow	(5,995)		
Changes related to risk adjustment	(3)		
Difference between expected and actual investment component paid in the period, premiums and acquisition expense	(20,000)		
CSM before allocation to Profit and Loss	20,606		Diek ediuetment
CSM allocated to Profit and Loss	(6,239)		RISK aujustment
Carrying amount of CSM	14,368	Opening	1,181
		Changes related to future service	3
		Changes related to current service	(55)
		Carrying amount	1,129



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Subsequent measurement – Scenario 2

	CSM movement			
Opening CSM	43,152	Coverage units		
Interest (on locked-in rate)	3,452	31%	Revision to	
Changes in the PV of future cash flow	(5,995)	25%	pattern of service	
Changes related to risk adjustment	(3)	200/	provision	
Difference between expected and actual		22%	(coverage units)	
investment component paid in the	(20,000)	22%		
expense				
CSM before allocation to Profit and Loss	20,606		Risk adjustment	
CSM allocated to Profit and Loss	(6,239)	Oponing	1 1 2 1	
Carrying amount of CSM	14,368	Opening	1,101	
		Changes related to future service	3	
		Changes related to current service	(55)	
		Carrying amount	1,129	



Comparison – Scenario 2 Year 2 Statement of Profit and Loss

14,259

(73,61

Expected	Actual
193,140	185,269
14,109	6,239
55	55
121,475	121,475
57,500	57,500
(178,975)	(258,975)
(121,475)	(201,475)
(57,500)	(57,500)
14,165	(73,706)
95	95
195,581	195,581
(195,487)	(195,487)
	Expected 193,140 14,109 55 121,475 57,500 (121,475) (121,475) (57,500) 14,165 95 195,581 (195,487)

Profit (Loss)

Key Highlights:

- Change in CSM recognized in revenue
- No change in Risk adjustment recognized in revenue
- ✓ Increase in insurance service expense

No change in Finance results



Subsequent measurement – Scenario 3

of surrenders are 3 more than expected

	Expected	Actual
No of Deaths	1	1
No of Surrenders	12	15
Premium (+)	1,362,750	1,362,750
Commission (-)	102,206	102,206
Renewal expenses (-)	41,475	41,475
PV Future cash flows	2,252,470	2,146,328
Insurance component (-)	80,000	80,000
Investment component (-)	260,000	320,000



Subsequent measurement – Scenario 3

	CSM movement
Opening CSM	43,152
Interest (on locked-in rate)	3,452
Changes in the PV of future cash flow	106,142
Changes related to risk adjustment	53
Difference between expected and actual investment component paid in the period, premiums and acquisition expense	(60,000)
CSM before allocation to Profit and Loss	92,799
CSM allocated to Profit and Loss	(28,095)
Carrying amount of CSM	64,704



Subsequent measurement – Scenario 3

	CSM movement		
Opening CSM	43,152	Coverage units	
Interest (on locked-in rate)	3,452	31%	Revision to
Changes in the PV of future cash flow	106,142	25%	pattern of service
Changes related to risk adjustment	53	000/	provision
Difference between expected and actual		22%	(coverage units)
investment component paid in the period, premiums and acquisition expense	(60,000)	22%	
CSM before allocation to Profit and Loss	92,799		
CSM allocated to Profit and Loss	(28,095)		Risk adjustment
Carrying amount of CSM	64,704	Opening	1,181
		Changes related to future service	(53)
		Changes related to current service	(55)
		Carrying amount	1,073



Comparison – Scenario 3 Year 2 Statement of Profit and Loss

14,259

28,245

	Expected	Actual
Insurance service revenue	193,140	207,125
CSM recognized for services provided	14,109	28,095
Change in risk adjustment for non-financial risk.	55	55
Release of expected incurred claims and other insurance service expenses	121,475	121,475
Recovery of insurance acquisition cash flows	57,500	57,500
Insurance service expense	(178,975)	(178,975)
Incurred claims	(121,475)	(121,475)
Loss and reversal on onerous contracts		
Amounts attributed to insurance acquisition cash flows	(57,500)	(57,500)
Insurance service result	14,165	28,150
Finance result	95	95
Investment Income	195,581	195,581
Insurance finance expense	(195,487)	(195,487)
I	(100,101)	(100,101)

Profit (Loss)

Key Highlights:

- Change in CSM recognized in revenue
- No change in Risk adjustment recognized in revenue
- No change in insurance service expense

No change in Finance results



Subsequent measurement – Scenario 4 – Interest rate change

Discount rate assumption lowered to 7% from 8% for all future years

	Expected	Actual
No of Deaths	1	1
No of Surrenders	12	12
Premium (+)	1,362,750	1,362,750
Commission (-)	102,206	102,206
Renewal expenses (-)	41,475	41,475
PV Future cash flows	2,252,470	2,354,485
Insurance component (-)	80,000	80,000
Investment component (-)	260,000	260,000

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Subsequent measurement – Scenario 4

	CSM movement
Opening CSM	43,152
Interest (on locked-in rate)	3,452
Changes in the PV of future cash flow	-
Changes related to risk adjustment	(51)
Difference between expected and actual investment component paid in the period, premiums and acquisition expense	-
CSM before allocation to Profit and Loss	46,553
CSM allocated to Profit and Loss	(14,094)
Carrying amount of CSM	32,459



Subsequent measurement – Scenario 4

	CSM movement		
Opening CSM	43,152		
Interest (on locked-in rate)	3,452	No change to	
Changes in the PV of future cash flow	-	provision	
Changes related to risk adjustment	(51)	(coverage un	its)
Difference between expected and actual investment component paid in the period, premiums and acquisition expense	-		
CSM before allocation to Profit and Loss	46,553		Risk adjustment
CSM allocated to Profit and Loss	(14,094)	Opening	1,181
Carrying amount of CSM	32,459	Changes related to future service	51
		Changes related to current service	(55)
		Carrying amount	1,177



Comparison – Scenario 4 Year 2 Statement of Profit and Loss

14,259

(87

	Expected	Actual
Insurance service revenue	193,140	193,124
CSM recognized for services provided	14,109	14,094
Change in risk adjustment for non- financial risk.	55	55
Release of expected incurred claims and other insurance service expenses	121,475	121,475
Recovery of insurance acquisition cash flows	57,500	57,500
Insurance service expense	(178,975)	(178,975)
Incurred claims	(121,475)	(121,475)
Loss and reversal on onerous contracts		
Amounts attributed to insurance acquisition cash flows	(57,500)	(57,500)
Insurance service result	14,165	14,149
Finance result	95	(101,920)
Investment Income	195,581	195,581
Insurance finance expense	(195,487)	(297,502)

Profit (Loss)

Key Highlights:

- Change in CSM recognized in revenue
- No change in Risk adjustment recognized in revenue
- No change in insurance service expense

✓ Change in insurance finance expense

The change in market value of assets will completely offset the insurance finance expense if the assets and liabilities are perfectly matched



Onerous contracts



Onerous contract



Initial recognition

- 100 identical contracts are assumed to be issued on the same date.
- All contracts are expected to behave identically therefore, can be assumed to be in the **same group** without need for additional testing.
- The cash flows for each contract are projected using the set of assumptions defined previously and aggregated.
- Reinsurance is not considered: accounted for separately under IFRS 17
- All features and assumptions are same as before, <u>but acquisition expense is 20%</u> of first year premium

Year	No. of pols (end)	Premium (+)	Commission (-)	Acquisition expense (-)	Other expense (-)	Death Outgo (-)	Surrender Outgo (-)	Maturity Outgo (-)	Net Cash flow (outgo less income)
1	79	1,725,000	172,500	345,000	50,000	100,000	0	0	(1,057,500)
2	66	1,362,750	102,206	0	41,475	100,000	240,000	0	(879,069)
3	55	1,138,500	56,925	0	36,383	100,000	420,000	0	(525,193)
4	49	948,750	47,438	0	31,835	100,000	360,000	0	(409,478)
5	48	845,250	42,263	0	29,780	100,000	0	4,800,000	4,126,792



Initial recognition

At initial recognition - cash flow projection takes into account first premium; and insurance acquisition cash flows.



- Unearned profit < 0 ; therefore, group of contracts is onerous
- CSM at initial recognition = 0
- Loss component of 30,398 will be recognized in the year 1 P&L.

In summary



Profit (or loss) is ultimately = Change in assets less change in liabilities

Typical components for an AoM	These can also be presented as	Fulfilment cash flows	CSM	P&L impact
Opening value	Opening value	+	+	
+ New contracts	Fulfilment cash flows from new contracts at initial recognition	+	-	Nil
	Interest on opening value at locked-in rate	+	+	Insurance finance expense
 Unwind of discount rate 	Difference in interest between beginning of period discount rate and locked in rate on opening value	+		Insurance finance expense
	Actual outgo less income	-		See experience variance
 Cash flows expected to occur in the inter-valuation 	Experience variance: Actual less Expected for – premiums, investment component and acquisition expenses	+	-	Nil
period	Experience variance: Actual less Expected for – insurance component and other expenses	+		Insurance service revenue: expected CF Insurance service expense: actual CF
 Impact of change in non- economic assumptions 				
 change in future cash flows due to experience variance 	interest rate)	+	-	Nil
 Impact of change in economic assumptions 	Impact of change in end of period discount rate assumption	+		Insurance finance expense
	Amortisation of CSM		-	Insurance service revenue
Closing value	Closing value	=	=	
			WW	w.actuariesindia.org



Thank you

