

Session 78, GAAP Long Duration Targeted Improvements for Disability Insurance

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GAAP Long Duration Targeted Improvements for Disability Insurance

SOA Health Meeting Phoenix, Arizona June 25, 2019



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Targeted Improvements Stage 1: Fear





Targeted Improvements Stage 2: Acceptance





Statutory Reserving for Individual Disability

Accounting Standard

- SSAP 54: Individual and Group Accident & Health Contracts.
- Appendix A-010: Minimum Reserve Standards for Individual and Group Health Insurance.

Claim Reserves

• Specified minimum standards based on year of disability

Policy Reserves

- Specified minimum standards based on year of issue
- Two-Year Full Preliminary Term method, no deferral of acquisition costs

<u>Reserve Adequacy</u>

- Measured in aggregate for combined claim and policy reserves
- Gross premium reserve is used to measure adequacy
- Asset adequacy testing required to support actuarial opinion



GAAP Reserving for Individual Disability Current Rules

Accounting Standard

• ASC 944 (f/k/a FAS 60)

<u>Claim Reserves</u>

- Treated as a short-duration liability
- Assumptions are on a best-estimate basis and are not locked in

Policy Reserves

- Treated as a long-duration liability
- Assumptions include provision for adverse deviations and are locked in
- Net level method
- Separate calculation for deferred acquisition costs

Reserve Adequacy

• Measured separately for claim and policy reserves



GAAP Reserving for Individual Disability Preview of Long Duration Targeted Improvements

Policy Reserves

- Assumptions no longer locked in by issue year
- Assumptions no longer include PAD
- Net premium ratio and reserves recomputed to reflect actual past experience
- Prospective changes to assumptions are recognized immediately
- Discount rates updated regularly based on market rates

DAC

- No interest accrual
- Straight line amortization

<u>Claim Reserves</u>

- Generally unaffected
- May be second-order impacts



Milliman Survey on LDTI for Individual Disability

Do you anticipate modifications to your IDI claim system for LDTI?

Yes	0
No	6
Don't Know	5

What is the expected complexity of these changes?

High	0
Medium	0
Low	0
Don't Know	11



Milliman Survey on LDTI for Individual Disability

Do you anticipate modifications to your valuation data extract for LDTI?

Yes	3
No	3
Don't Know	5

What is the expected complexity of these changes?

High	1
Medium	2
Low	0
Don't Know	8



Milliman Survey on LDTI for Individual Disability

Do you anticipate modifications to your valuation systems for LDTI?

Yes	9
No	0
Don't Know	2

What is the expected complexity of these changes?

High	5
Medium	1
Low	0
Don't Know	5



Special Considerations for Disability Insurers

- Mapping coverages to issue years
- Availability of granular policy and claim data
- Consistency of claim and policy reserves
 - Morbidity assumptions
 - Discount rates
- Measurement of actual experience when updating policy reserves



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LDTI Overview

Which Long-Duration products are impacted?

Products	Insurance Products			Annuity Products				
Item	Life, LTC, IDI (Non-Par)	Trad (Par*)	UL/VL	IUL	SPIA/SS	FDA	FIA	VA
Liability for Future Policyholder Benefits	х				Х			
Deferred Profit Liability ("DPL")	х				Х			
Claim Liability ("disabled life reserve", "DLR")								
Additional Liability (e.g. SOP 03-1)	х				Х			
Terminal Dividend Liability ("TDL")		x						
Deferred Acquisition Costs	х	х	х	x	Х	х	х	х
Loss Recognition Testing ("LRT")	х	х	х	x	Х	x	х	х
Market Risk Benefits ("MRBs")							х	х
Disclosures	x	х	х	x	Х	х	Х	х

(* For contracts that follow the dividend contribution principle)



Net Premium Reserve methodology under ASU 2018-12



- Net Premium Ratio capped at 100% and reserve floored at zero.
- LRT effectively performed at a cohort level.



Earnings Impact – New Business

Net Income Before Tax





Earnings Impact

Impact of updating actual experience



• Impact of current period experience variances is muted under ASU 2018-12, but no cross subsidization between cohorts.



Earnings Impact Impact of updating future cash flow assumptions

Net Income Before Tax





Earnings Impact

DAC Illustration – Variance in amortization revenue

Universal Life NIBT



Individual Disability Income NIBT





Impact of updating discount rates

Policy reserve is reported on the balance sheet:

- Using current discount rates
- With impact of changes reflected in AOCI
- Modeled discount rate movements (parallel shifts):

+30 bps, -30 bps reserve movements of 5-6%.

Implications

- Incentive to classify assets as available for sale ("AFS")
- Liabilities will be sensitive to A quality investment yields



Transition

- Two transition methods for inforce business
 - 1. Carryover basis / modified retrospective → Pivot from existing carrying amounts
 - 2. Full retrospective → Apply the standards retrospectively from contract issue
- Restrictions for full retrospective
 - Must use actual historical experience
 - Must not skip issue years
 - Must be for all LOBs entity wide
 - Must update LFPB / DAC consistently



Disclosures

- Provide users with information to assess the components of past performance as well as expected performance
- More required disclosures in financial statements including:
 - 1. Disaggregated roll-forwards of balances (e.g. LFPB, MRB, DAC, GA AV, SA etc.)
 - 2.Statistical items (e.g. weighted average discount rate, crediting rate, liability duration)
 - 3. Qualitative and quantitative information (e.g. transition adjustments, adverse developments, etc.)
 - 4. Sensitivities to significant inputs to valuation
- Judgment needed to determine appropriate level of disaggregation, but should consider how information about the information is presented for other purposes



Disclosures – Sample Reserve Rollforward

LIABILITY ROLLFORWARD FOR FIRST YEAR AFTER TRANSITION

RESERVE COMPONENT	ALR	DLR	TOTAL
Reserve, beginning of period	\$126.3	\$23.2	\$149.5
Reserve, beginning of period (original discount rates)	122.1	23.2	145.3
+ Impact of updating actual experience	(9.2)	9.4	0.2
+ Impact of updating future cash flow assumptions	0.0	0.0	0.0
Reserve, beginning of period (adjusted)	113.0	32.6	145.5
+ Net premiums	8.3	0.0	8.3
+ Interest credited to reserve	5.6	0.9	6.5
- Reserve released for benefits	1.5	6.1	7.7
- Reserve released for expenses	0.4	0.0	0.4
Reserve, end of period (original discount rates)	125.0	27.3	152.3
+ Cumulative impact of updating discount rates	(2.4)	0.0	(2.4)
Reserve, end of period	\$122.6	\$27.3	\$149.9



Strategic analysis & policy decisions

- Transition method will produce different reserve / DAC amounts and ROEs going forward
- Cohorts need to determine appropriate aggregation level
- Discount rates develop process that maximizes the use of observable inputs
- DAC select amortization basis
- Disclosures determine appropriate level of aggregation



Additional Challenges for Products with Long Claim Periods such as LTC and IDI

- Typical approach for ALR under current accounting: PV future benefits = incidence rate * PV claims
- Under LDTI, this approach leads to historical benefits = PV of benefits for policies that go on claim
- Complications:
 - How to adjust for actual experience going forward since the DLR is a best estimate?
 - How to account for PV future benefits given this is already captured in the DLR?
 - How to account for status changes
 - How to maintain internal consistency given that the DLR requirements do not change under LDTI



Additional Challenges: Reinsurance Assumed

- Definition of cohort will be important as it defines certain data needs
- Single reinsurance contract vs. issue years within a contract
- Most reinsurance settlement reporting does not provide breakdowns that would support issue year cohorts
- Data provided to reinsurers is often a month or quarter in arrears
- Challenge to assign cash flows to policies in each cohort



Conclusions so far...

- Income patterns will change
 - Reserve increases for traditional products will be slower in early years, decreases smaller in later years
 - DAC no longer follows revenue
- Volatility will decrease for actual versus expected variances
- Volatility will increase for changes in assumptions for future cash flows.
- Data challenges will be paramount for both direct writers and reinsurers
 - Actual cash flows needed by cohort
 - Governance of inputs and outputs
 - Disclosure sensitivities will be key for communication to stakeholders

