

# Solutions for Insurance Professionals

Power your multi-asset class portfolio analysis and seamlessly connect workflows across your firm with FactSet's integrated solution for insurance professionals.

**FactSet Life Insurance & Annuity Company vs Sample Insurance Liability/Replicating Portfolio**

31-AUG-2020 Composite Components

	Ending Price	Quantity Held	Assets Market Value	Yield	Modified Duration	Effective Duration	Effective Convexity
<b>Total</b>		<b>21,759,421.638</b>	<b>24,210,150.397</b>	<b>1.11</b>	<b>6.19</b>	<b>5.80</b>	<b>0.49</b>
<b>Non-Composite</b>		21,759,421.638	24,210,150.397	1.11	6.19	5.80	0.49
<b>Fixed Income</b>		21,759,421.638	24,210,150.397	0.55	6.71	6.65	0.97
Sovereign		9,254,825.620	10,278,448.969	1.84	3.04	1.79	-1.11
Residential Mortgage Backed		6,031,242.705	6,457,790.003	1.97	8.44	8.30	1.29
Corporate		5,762,505.760	6,669,349.470	1.48	5.20	5.19	0.37
Commercial Mortgage Backed		488,701.910	534,726.437	2.67	12.05	11.61	2.02
Municipal		134,125.890	178,426.747				

\*\*\* Footnotes \*\*\*

**Liabilities**

31-AUG-2020 Asset Class - Client Definitio... Excluded: Multiple Securities

	Ending Price	Quantity Held	Liabilities Market Value	Yield	Modified Duration	Effective Duration	Effective Convexity
<b>Total</b>		<b>215,480,281</b>	<b>184,122,269</b>	<b>0.86</b>	<b>13.68</b>	<b>13.68</b>	<b>2.65</b>
<b>Fixed Income</b>		215,480,281	184,122,269	0.86	13.68	13.68	2.65
Projected Liability 2020	99.99	4,464,636	4,464,209	0.03	0.33	0.33	0.00
Projected Liability 2021	99.87	5,062,560	5,055,939	0.10	1.33	1.33	0.02
Projected Liability 2022	99.08	6,153,289	6,096,878	0.19	2.33	2.33	0.07
Projected Liability 2023	99.55	5,625,703	5,600,458	0.28	3.33	3.33	0.13
Projected Liability 2024	99.08	6,643,803	6,543,554	0.35	4.33	4.33	0.21
Projected Liability 2025	97.79	7,082,616	6,925,796	0.42	5.32	5.32	0.31
Projected Liability 2026	96.97	7,472,252	7,246,107	0.49	6.32	6.32	0.43
Projected Liability 2027	96.07	7,811,227	7,503,900	0.55	7.31	7.31	0.57

## HARNESS POWERFUL PORTFOLIO ANALYTICS

Gain access to FactSet's deep fixed-income analytics for portfolio risk measurement, performance attribution, and scenario stress-testing. FactSet offers complete coverage for fixed income, equity, private equity, real estate, private credit, leveraged loans, derivatives, and structured instruments. Access all pricing sources and reference data from best-of-breed providers in one place, combined with enhanced fixed income and derivatives coverage through FactSet's powerful calculation engine. Automate the modeling of CMLs, private placements, alternative investments, and other complex investment structures for complete coverage of the General Account. Rely on FactSet's matrix pricing to automate the process of valuing private placements. Replicate your liability book as a series of cashflows or derivative instruments and optimize asset allocation decisions to maximize risk-adjusted return.

## LEVERAGE LEADING CLOUD TECHNOLOGY

Streamline investment IT and infrastructure, improve data management with FactSet's content, and shorten your quarterly reporting cycle. Rely on our cutting-edge technology and dedicated 24/7 support to produce rating agency surveys, asset adequacy tests, and cash flow projections under large economic or stochastic scenarios in a fraction of the time. Scale the technology and shorten the time allocated to calculations Principal Based Reserving, AG43, and Solvency II.

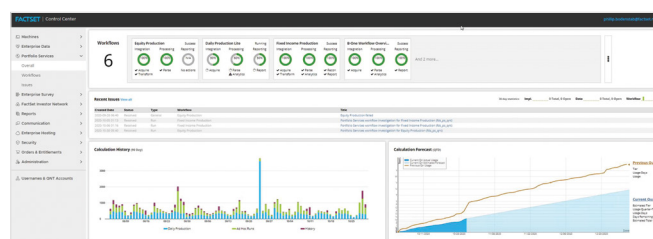
## MAINTAIN VISIBILITY OF YOUR TOTAL ACCOUNT RISK

View risk across the many steps of your investment process. Look at summary-level dashboards, receive alerts based on selected criteria, and customize and assess portfolio-, factor-, and asset-level detail. Use factor stress testing and extreme event stress testing to identify vulnerabilities in your portfolios and assess them under a broad array of market environments and historical scenarios. Leverage robust market data to create custom shock and stress tests with the option to control factor, direction, magnitude, and correlation assumptions.

## FACTSET > SEE THE ADVANTAGE

### OUTSOURCE DATA INTEGRATION, RECONCILIATION, AND REPORTING

Rely on FactSet's Portfolio Services team for turnkey accounting and trade data integration, comprehensive and transparent reconciliation, and custom reporting options. Our specialists monitor and remediate issues as they occur in real time during all stages of your workflow, from data extraction to analytical enrichment and report generation. Rest assured that reporting is timely and of the highest quality, so all members of your team receive data that is consistent and reliable. FactSet builds a robust process around the book of record and automates its integration into your environment and third-party systems.



### CONNECT THE ENTIRE GENERAL ACCOUNT WORKFLOW

Gain access to FactSet's industry-leading global fixed-income attribution and risk solution. Model your liability book and expected cashflows as a series of caps, floor, swaps, and swaptions to derive Greeks and durations and review a streamlined key rate duration approach against the asset

portfolio. Our rich proprietary private and public data sets and intuitive interface empowers credit, equity, and alternative investment analyst teams to produce critical research for portfolio managers and traders. Extend your General Account framework with external fund research and fund of fund management.

Portfolio Name: TEST\_ACFP\_USERSTRING  
Scenario Name: NY7.SCN  
Run Date/Time: 10/12/2020 12:24:12 PM  
Job Name: User\_String\_Sample  
Output File Format: FactSet File Format (csv)

Horizon	Security Name	Cashflow Date	Book Value	Book Yield	Amortized Market Value	Mod Duration	Principal Balance	Average Life (Years)	Amortization	Interest	Principal	Accrued Interest
# 0	-	09/30/2020	491.00	7.83%	491.00	3.33	500.00	4.15	0.00	0.00	0.00	0.00
# 1	-	10/15/2020	453.45	7.83%	453.45	3.32	491.74	4.15	0.72	2.25	8.26	2.21
	36200ETC	10/15/2020	100.49	4.44 %	100.49	3.90	98.51	4.14	0.00	0.00	0.00	0.41
	36200MYB	10/15/2020	98.30	5.93 %	98.30	3.34	98.30	4.59	-0.05	0.42	1.49	0.41
	36200VMU	10/15/2020	97.39	5.22 %	97.39	3.60	98.39	4.02	0.00	0.50	1.70	0.49
	36201PSP	10/15/2020	73.69	15.79 %	73.69	2.58	98.32	3.88	0.47	0.50	1.78	0.41
	36201XYX	10/15/2020	83.61	10.14 %	83.61	2.93	98.32	3.79	0.29	0.42	1.68	0.41
# 2	-	11/15/2020	445.95	7.82%	445.95	3.31	483.40	4.12	0.83	2.21	8.34	2.10
# 3	-	12/15/2020	438.62	7.82%	438.62	3.31	475.40	4.11	0.88	2.18	8.00	2.14
# 4	-	01/15/2021	431.37	7.81%	431.37	3.30	467.41	4.09	0.74	2.14	7.99	2.10
# 5	-	02/15/2021	425.40	7.81%	425.40	3.28	460.52	4.07	0.63	2.07	7.88	1.97
# 6	-	03/15/2021	419.33	7.81%	419.33	3.26	453.94	4.04	0.50	2.04	7.80	1.94
# 7	-	04/15/2021	412.50	7.80%	412.50	3.25	446.34	4.03	0.77	1.97	7.84	1.87
# 8	-	05/15/2021	405.27	7.80%	405.27	3.25	438.48	4.02	0.62	1.94	7.88	1.87
# 9	-	06/15/2021	397.92	7.79%	397.92	3.25	430.39	4.01	0.74	1.87	7.88	1.87
# 10	-	07/15/2021	390.33	7.79%	390.33	3.24	422.20	3.99	0.65	1.80	7.84	1.80
# 11	-	08/15/2021	383.14	7.79%	383.14	3.24	414.36	3.98	0.70	1.80	7.84	1.80
# 12	-	09/15/2021	375.95	7.79%	375.95	3.24	406.48	3.98	0.70	1.80	7.84	1.80