CUSTOMIZED LONG TREASURY SOLUTION

EMPLOYEES' RETIREMENT SYSTEM OF RHODE ISLAND



LIQUIDITY MANAGEMENT

Current account structure

Cash Buffer

Initial margin requirements, counterparty collateral, etc. Collateral can be cash or securities

 For variation margin, increases in collateral requirements, currency forward settlements, option premiums, etc. Typically, 5-7% of equity futures notional or 2-3% of bond futures notional.

To avoid frequent cash transfers, prudent to keep ~8-10% for adverse equity market moves or 4-5% for adverse rate moves.

market moves

Stress test this amount against potential

For illustrative purposes only.

LIQUIDITY MANAGEMENT

Proposed account structure

Additional Cash Buffer Cash Buffer

 By satisfying initial margin requirements through pledging Treasuries, this portion of the Overlay will be available for other purposes

This additional cash will help ease the operational burden on ERSRI staff.

 For variation margin, increases in collateral requirements, currency forward settlements, option premiums, etc.

Collateral

 Separately managed account, benchmarked to Bloomberg U.S. Long Treasury Index

~3-5% of the bonds in the account will be pledged to satisfy initial margin requirements

For illustrative purposes only.

LIQUIDITY MANAGEMENT

Dual-Purpose Bond Pledging

Assumptions:

- ERSRI portfolio needs exposure to government bonds
- 2) The Overlay needs collateral to support futures



ERSRI hires Russell Investments Fixed Income to purchase government bonds



One (or more) of the bonds can be *pledged* to the Overlay's broker account to satisfy initial margin requirements (IMR)



Higher yield

Lower risk

✓

Higher efficiency

Customizable

✓

Transparent

The Overlay now requires fewer cash transfers to satisfy daily gain/loss wires, lowering operational burden on ERSRI staff



For performance and management purposes, the bonds are "reflected" in the bond account

BUSINESS OVERVIEW

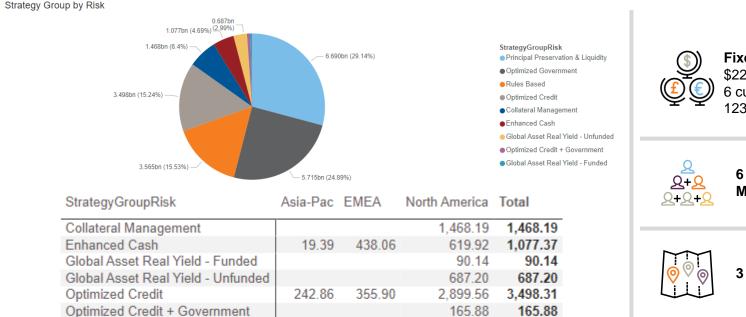
Helping organizations maximize the potential within their investment programs



Source: Russell Investments. For illustrative purposes only. Data as of June 30, 2024.



Fixed Income Customized Portfolio Solutions



552.39

432.95

38.48

806.52

432.27

1.539.52 1.779.31



Roughly 70% of the current CPS \$AUM is comprised of liquidity management and passive factor exposures managed to low tracking error targets.

5.123.77

5.450.48

3.132.24

19.637.39 22.956.22

5.714.65

6.689.96

3.564.51

Source: Russell Investments. For illustrative purposes only. Information as of September 30, 2024



Optimized Government

Rules Based

Total

Principal Preservation & Liquidity

FIXED INCOME CAPABILITY

Risk management

ONGOING PRE-TRADE POST-TRADE Systematic compliance engine Compliance engine runs post-Live and intraday trade to ensure continuous dashboard shows any is utilized prior to any trades being executed adherence to fund guidelines breaches in compliance Diversification and credit This rules-based system will Compliance system is stop trades from being managed and overseen by an limits are established to executed that will breach fund independent team limit over exposure to issuers/sectors/industries guidelines Any changes to rules within the compliance engine is tracked The credit team maintains for audit purposes and actively and independently monitored monitors an 'approved credit' list, and distributes to portfolio managers

Systematic oversight across all trades and portfolios, as well as independent oversight to ensure risks are mitigated

WHY RUSSELL INVESTMENTS?

How we stand apart

Discretionary investment management is our primary focus.



ALIGNMENT

Our consulting heritage is embedded deeply within our organization, the foundation for our ability to align to your unique needs.

// Understanding your investment goals in totality— through conversation and analysis—takes place before any recommendation to optimize your current strategy.



EXPERIENCE

The team we have assigned has an average of 20+ years of industry experience in credit and rates markets.

// Bringing a deep understanding of the stresses and risk signals in funding markets, including unique insight into broader credit risk pricing.



EFFICIENCY

Integrating fixed income management with our overlay solution allows Russell Investments to manage the pledging process in total, easing the burden on the ERSRI staff.

// This provides an operational win that is both cost effective and more capital efficient, freeing up cash within the overlay program.



WORKING TOGETHER



Biography



B.S., Business/Finance, Wheaton College, 1997

Chartered Financial Analyst (CFA) Charterholder, 2003

Brian C. Pringle, CFA

Senior Director, Customized Portfolio Solutions - Fixed Income

Brian Pringle is the Senior Director of CPS – Fixed Income Russell Investments. Brian manages a global team of dedicated Fixed Income Portfolio Managers that oversee a suite of products ranging from Liquidity/Cash vehicles to a range of targeted factor portfolios covering the full spectrum of credit and duration exposures. He joined Russell Investments in 2010.

Previously, Brian was director of cash investments for Columbia Management in Boston (and previously, Charlotte, NC) from 2005 to 2010. Brian managed money market funds and separately managed accounts on a team responsible for over \$150B in short-term assets, in varying asset classes, currencies, and investment mandates. Before joining the portfolio management team at Columbia, Brian was a member of the Risk Management group, from 2003 to 2005, responsible of the oversight and management of the cash group.

From 2000 to 2002, Brian worked for Franklin Templeton Investments as a portfolio analyst for the equity management group. There he was responsible for the equity allocations and portfolio rebalancing for \$800M in individual client WRAP accounts. Brian engaged with the trading and equity teams to balance the domestic and international exposure in the accounts and assisted with equity research.

Brian began in the industry in the junior management program for Franklin Templeton in Rancho Cordova, CA in 1998, where he spent time in various investment and retirement planning divisions building an understanding of market and client dynamics.

Brian earned his Chartered Financial Analyst (CFA) charter from the CFA Institute (formally AIMR) in 2003.

Biography



B.A. (magna cum laude), Economics, DePauw University, 2008

Christina M. Shockley

Portfolio Manager, Overlay Services Russell Investments Implementation Services, LLC

Christina Shockley is a portfolio manager in Russell Investments' investment division. Christina's primary responsibilities are to design, implement, and manage portfolios for Russell Investments' overlay services group. Strategies include cash securitization, synthetic rebalancing, liquidity management, liability-based solutions, currency overlays, and portable alpha.

Prior to joining the overlay services team in 2017, Christina was a portfolio manager in the equity derivatives group, where she researched and implemented synthetic trading strategies and overlays for the Russell funds and third-party clients. Christina's responsibilities also included the global execution of listed and OTC instruments, including equity futures, swaps, and options.

Before moving to the equity derivatives team in 2013, Christina was a currency trader, responsible for trade execution for Russell Investments' currency management business, which services the foreign exchange needs of external clients and all of Russell Investments' internal businesses, including the Russell funds, overlay services, and transition management. Christina joined Russell Investments in 2008 as a trading analyst for Russell Investments' operations group. In this role, she oversaw the settlements program, confirmed trades, and investigated various operational issues. Christina also led the successful implementation of Continuous Linked Settlement (an industry program crucial in reducing settlement failures) with Russell Investments' largest custodian.

Before this position, Christina completed two internships with Russell Investments, one with the portfolio trading group, and the latter with the equities and fixed income trading team.

Christina is a portfolio manager for Russell Investments Implementation Services, LLC, Russell Investments' global trading firm. Russell Investments Implementation Services, LLC is an SEC registered investment adviser and broker-dealer, member FINRA, SICP.

Biography



B.S., Mathematics, University of Washington, 1992 Enrolled Actuary, 1997 Chartered Alternative Investment Analyst 2007

Licensed Registered Representative, FINRA Series 7, 24, and 66 (Russell Investments Implementation Services, LLC., member FINRA)

Steve Kirschner

Director, Client Solutions, Americas Institutional

Steve Kirschner is Director of Client Solutions for Russell Investments' Americas Institutional business, based in Charlotte, NC.

Steve represents Russell Investments' best thinking across consulting, implementation services, and our global investment capabilities to clients and prospective clients in his Eastern U.S. territory in the large end of the market. Steve's expertise in the workings of global capital markets, pension plan management and the practical application of Russell Investments' portfolio implementation platform is a valuable resource in helping clients solve their objectives and challenges with unique solutions. Steve assumed this role in 2022.

In his previous role, Steve was Managing Director, Head of Implementation within Russell Investments where he was responsible for the global growth, daily product delivery, risk management and leadership of Russell Investments' global implementation businesses. Russell Investments Implementation Services' mandate is to empower investors to maximize risk adjusted returns through custom portfolio management, overlay solutions, change management and agency execution capabilities.

Before joining Russell Investments in 2005, Steve spent 12 years with Merrill Lynch as an institutional retirement consultant, spanning all types of corporate retirement plans. In this position, he led consulting relationships with large-market institutional clients spanning liability-led investments, structured investment products, non-qualified plan design and all types of DB and DC plan consulting assignments.

WORKING TOGETHER

Broader resources



Responsible for overall outcome
Implements portfolio strategy and positioning
Oversees cash balances to ensure liquidity
and capital is correctly deployed

Credit team

Fundamental analysis on all credits approved for purchase Reconciliation team

In-house team providing continuous monitoring of portfolios

Trading team

24-hour trading Liquidity sourced through multiple venues Operations team

Confirm trades with broker / dealer

Sends instructions to Custodian

Compliance team

Pre-trade compliance and daily EOD review

Periodic internal audits

CONTINUOUS BACK-UP AND DISASTER RECOVERY PREPARATION

APPENDIX



Important information and disclosures

Nothing contained in this material is intended to constitute legal, tax, securities, or investment advice, nor an opinion regarding the appropriateness of any investment, nor a solicitation of any type. The general information contained in this publication should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.

Copyright[©] 2024 Russell Investments. All rights reserved. This material is proprietary and may not be reproduced, transferred, or distributed in any form without prior written permission from Russell Investments. It is delivered on an "as is" basis without warranty.

Securities products and services offered through Russell Investments Implementation Services, LLC, part of Russell Investments, a SEC Registered investment adviser and broker-dealer, member FINRA, SIPC. Russell Investments Implementation Services, LLC is a wholly owned subsidiary of Russell Investments US Institutional HoldCo.

Diversification and strategic asset allocation do not assure profit or protect against loss in declining markets.

Russell Investments' ownership is composed of a majority stake held by funds managed by TA Associates Management, L.P., with a significant minority stake held by funds managed by Reverence Capital Partners, L.P. Certain of Russell Investments' employees and Hamilton Lane Advisors, LLC also hold minority, non-controlling, ownership stakes.

Frank Russell Company is the owner of the Russell trademarks contained in this material and all trademark rights related to the Russell trademarks, which the members of the Russell Investments group of companies are permitted to use under license from Frank Russell Company. The members of the Russell Investments group of companies are not affiliated in any manner with Frank Russell Company or any entity operating under the "FTSE RUSSELL" brand.

The Russell Investments' logo is a trademark and service mark of Russell Investments.

Standard & Poor's Corporation is the owner of the trademarks, service marks, and copyrights related to its indexes.

Indexes and/or benchmarks are unmanaged and cannot be invested in directly. Returns represent past performance, are not a guarantee of future performance, and are not indicative of any specific investment.

MSCI makes no express or implied warranties or representations and shall have no liability whatsoever with respect to any MSCI data contained herein. The MSCI data may not be further redistributed or used to create indices or financial products. This report is not approved or produced by MSCI.

Unless otherwise noted, source for the data in this presentation is Russell Investments Implementation Services, LLC.

This material is a product of Russell Investments Implementation Services, LLC, a registered investment advisor and broker-dealer, member FINRA, SIPC.

Date of first use: October 2024

RIIS





THANK YOU