



Investment Technology Designed for Treasury

iCD | Portal

Independent portal for short-term investments

iCD | Portfolio Analytics

AI-driven portfolio analytics for treasury's
entire portfolio

“ICD provides Apple with the focused resources, fund trading proficiencies and the world-class analytics we need to accomplish our global cash management objectives.”

✔ Peter Tomei, *Former Senior Director*
Head of World Wide Credit & Financial Services
Apple



ICD WAS FOUNDED IN 2003 WITH A SINGULAR FOCUS

ICD has dedicated the past 20 years to solving the investment challenges of treasury professionals. Our founding mission to empower treasury professionals with innovative products and extraordinary service is grounded in practitioner experience and industry vision.

With over 500 treasury organizations across 65 industries and 46 countries relying on our award-winning technology and service, ICD continues to define its success by its clients' success.

VISIBILITY AND CONTROL OVER INVESTMENTS

Investment decisions by treasury organizations have far-reaching consequences when it comes to creating value for the business. Managing liquidity, funding and capital structure requires visibility into all investments, so you can see the big picture and make proactive, informed decisions.

At ICD, we give you the tools to work simply, safely, and efficiently. Our technology solutions include **ICD Portal**, an independent trading platform for short-term investments, and **ICD Portfolio Analytics**, an AI-driven solution harmonizing disparate data for timely analysis and reporting on your company's entire investment portfolio.

ICD Portal supports all aspects of your short-term investment workflow, including research, trading, settlement, compliance monitoring, reporting and analysis, all in one place. By making investing smarter, more efficient and highly secure, ICD Portal empowers treasury departments to protect capital, maintain liquidity and achieve a competitive yield.

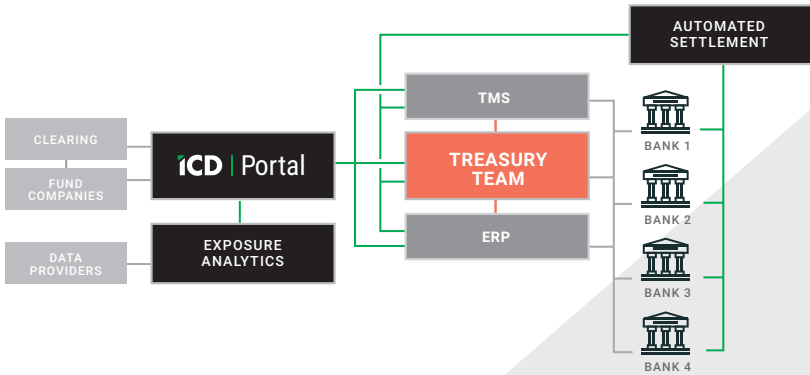
ACCESS THE CASH MARKETS

Selection matters when executing your investment strategy. ICD Portal provides unbiased access to an expansive selection of more than 450 short-term investment products from over 40 providers.

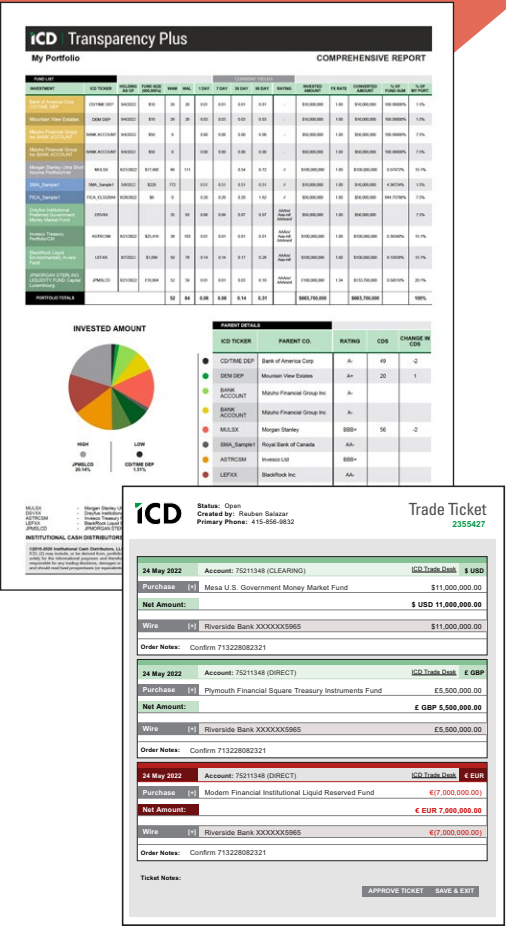
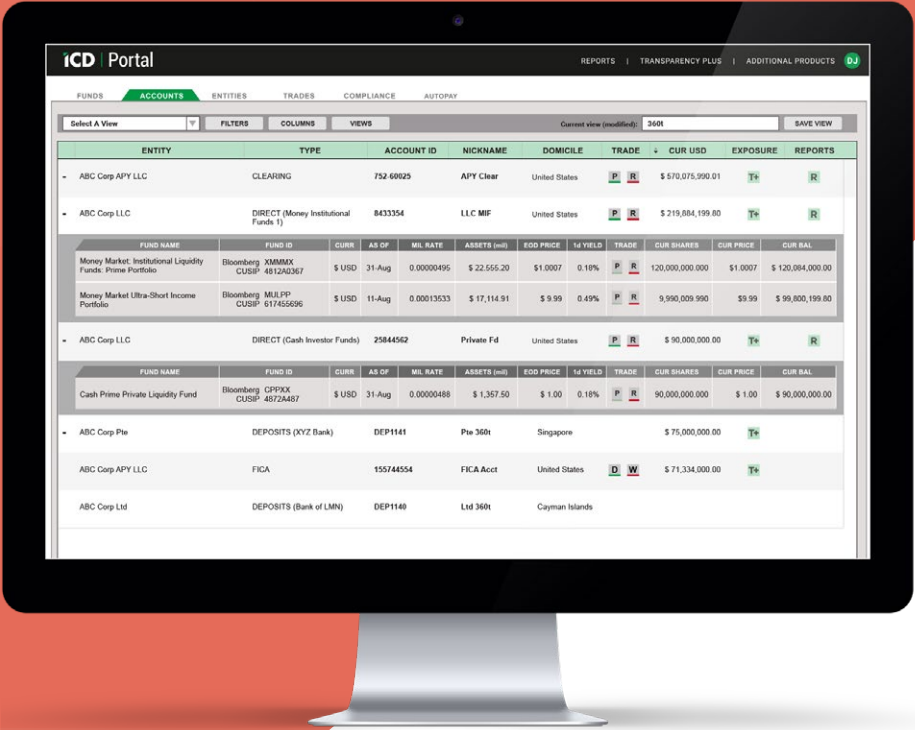
Money Market Funds The market’s best products and share classes, spanning eight currencies.	Short Duration Bond Funds Domestic USD, offshore (EUR, GBP, USD)	FDIC-Insured Deposit Programs Deposits spread across various pre-screened banks within the FDIC insurance threshold. Multiple providers available offering daily or T+1 liquidity.
Fixed-Term Funds Legally segregated exposure to a particular issuer with fixed terms ranging from a week to a year	Demand Deposits Multiple providers are available with daily or T+1 liquidity, varying yield, credit quality and number of participating banks	Separately Managed Accounts (SMA) SMA providers develop fixed income strategies based on risk tolerance and liquidity requirements, within client investment parameters
Federally Insured Brokered CDs Government-insured brokered CDs, providing enhanced yield for core, strategic cash	Time Deposits Interest-bearing bank deposits across specified maturity dates through 360T SSO	Environmental, Social & Governance (ESG) Products ESG, socially responsible funds (onshore, offshore)

INTEGRATION

ICD Portal’s open architecture enables integration to all technologies in treasury’s ecosystem. Through APIs or SFTP connections, ICD integrates with treasury management systems, ERPs, clearing and custody firms, transfer agents, fund companies, data providers, analytics applications and banks.



STREAMLINE YOUR INVESTMENT WORKFLOW



Trade execution
Research, identify and initiate short-term cash trades from a broad selection of products that map to your investment strategy. Configure secondary users to review and approve trade orders before final trade execution, ensuring standard best practice four-eye principles. Purchasing and redeeming from one trade screen improves efficiency and allows for a comprehensive pre-trade view.

Risk management
View exposures to counterparties, countries, sectors, security types, and more to optimize your short-term investment portfolio.

Compliance
Invest within your policy guidelines using compliance rules. ICD Portal’s front-end and back-end compliance features manage and monitor exposure guidelines, warning or blocking users when a compliance rule is being violated.

Reports on demand
ICD’s reporting library includes Dividend Accrual Report, Gain/Loss Report, Comprehensive Report, Fund Reports, MMF Guideline Report, NAV Flow Liquidity Report, Repo Report, Portfolio Summary Report, and more. Schedule reporting frequency and customize distribution groups to ensure peers have the data that matters to make informed decisions.

Settlement
Automated wire settlement enables efficient workflow, eliminates wire delays, reduces human error and provides advanced security. Settlement options include clearing, custody and direct to funds. Alternatively, depending on desired configuration, settlement instructions can be routed to your TMS or ERP for payment.

Security
Built to protect your critical data, ICD Portal deploys leading security technology with uniform trading protocol, provides an automated electronic audit trail on every trade, and adds an extra layer of security with multi-factor authentication.

ICD | Portfolio Analytics

ICD Portfolio Analytics is your central source of truth for analyzing and reporting on all the investments across your entire portfolio. Our cloud-based solution employs proprietary technology to automate the aggregation of disparate holdings data and AI-driven technology to normalize portfolio data. The solution’s report generation tools deliver a comprehensive view of portfolio concentration, exposure, available headroom and post-trade compliance.

Automate Data Aggregation

ICD Portfolio Analytics alleviates the time-consuming, manual effort involved in creating a single data set of all positions across your entire portfolio. Investments may include bank balances and deposits, internally managed investments, money market funds, bond funds and separately managed accounts, in different formats from different sources. The solution’s proprietary process automatically ingests data from custodians, asset managers, ERPs, treasury management systems, banks and other data sources, and stores it in a normalized database for historical analysis and reporting.

Ensure Data Consistency

Avoid the tiresome task of fixing nulls and errors from conflicting or missing data and broken formulas. ICD Portfolio Analytics leverages machine learning to automatically harmonize ingested data, ensuring it is consistent and comparable for accurate analysis and reporting.

Apply Third-Party Data

ICD Portfolio Analytics automatically maps third-party data on ratings, CDS spreads, equity prices, and more, as well as underlying holdings data for a complete analysis of your investment positions with leading indicator metrics on associated counterparties

Visualize Portfolio Risk

Customizable dashboard widgets enable you to visualize positions and monitor your entire portfolio against investment objectives and risk tolerance. Analyze portfolio risk in multiple dimensions with the ability to drill down into granular detail. Gain actionable insights on counterparty exposure, ratings distribution, maturity distribution, geographic exposure, and more.

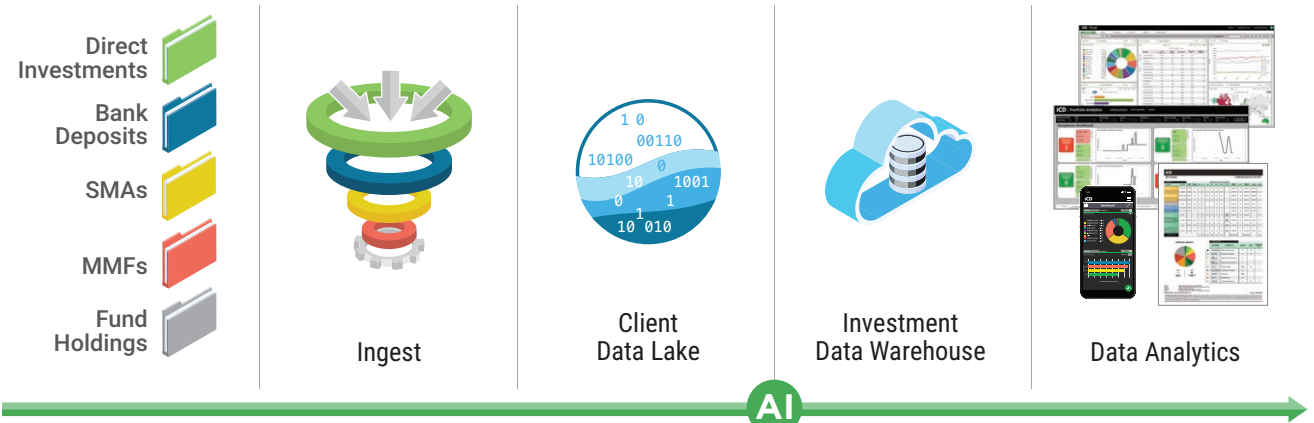
Embed Compliance

Your organization’s unique investment guidelines and compliance rules are embedded at multiple levels of granularity in the solution for monitoring. Stay in compliance with visibility into portfolio composition and identify opportunities where there is available headroom.

Generate Reports

Generate rich on-screen and on-demand reports across multiple dimensions of your entire portfolio. Report on risk exposures and their associated compliance limits, including portfolio positions, counterparty detail, ratings detail, security types, compliance dashboards, and more.

SAVE TIME WITH AI-DRIVEN DATA PROCESSING



ICD Portfolio Analytics is an AI-driven cloud solution that alleviates the time-consuming process of creating a single data set of all your investment positions. From this central source of truth, you'll exploit powerful analytics for proactive investment decisions and reporting.

ICD | Portfolio Analytics

Exposures as of EOD: 31-Jul-2023

Entity: All, Account Types: All, Account: All, Counterparty: All, Sponsor LT Rating: AI, Security Type: AB, Domicile: All, Exposure Type: All

Account Positions

Account	Entity	Counterparty	Security Name	Currency	Security Type	Exposure	% Exposure	As of Date
843038443	MS&AD Treasury, Inc.	Zuercher Kantonalbank	Demand Deposit	USD	BANK ACCOUNT	\$185,000,000	11.02%	31-Jul-23
8430421	Mountain Skiing Ultra Adventures	Bank of China Ltd	DEPO 1000DAY CAD	CAD	CD/TIME DEP	\$65,482,750	4.44%	31-Jul-23
843038442	Mountain Skiing Ultra Adventures	Astro Capital Corp B/Tokyo	Demand Deposit	USD	BANK ACCOUNT	\$65,900,000	4.37%	31-Jul-23
9302203	MS&AD Treasury, Inc.	Bank of China Ltd	DEPO 1000DAY USD	USD	CD/TIME DEP	\$55,725,425	3.68%	31-Jul-23
9302203	MS&AD Treasury, Inc.	Bank of China Ltd	DEPO 1100DAY USD	USD	CD/TIME DEP	\$53,100,000	3.47%	31-Jul-23
Total						\$448,758,175	29.96%	

Fund Investments

Account	Entity	Fund Parent	Fund Name	Currency	Ticker	ASIM (mB)	Exposure	% Exposure	As of Date
75272021	Mountain Skiing Ultra Adventures	BlackRock Inc.	BlackRock Liquidity Funds: Treasury Trust Fund	USD	TTTXX	\$104,095	\$675,000,000	45.96%	31-Jul-23
75272021	Mountain Skiing Ultra Adventures	Federated Investors, Inc.	Federated Government Obligations TrsManaged Fund	USD	GOTFX	\$6,581	\$200,000,000	29.37%	31-Jul-23
Total							\$1,025,090,100	29.96%	

Direct Investments

Account	Entity	Counterparty	Security Name	Currency	Security Type	STW	Exposure	% Exposure	As of Date
9378192	Mountain Skiing Ultra Vacations	Japan	JAPAN BIL 2350 07/19	USD	CP	1427	\$14,365,954	0.96%	30-Apr-23
9378192	Mountain Skiing Ultra Vacations		CASH	USD	CP	1450	\$201,000	0.01%	30-Apr-23
9378192	Mountain Skiing Ultra Vacations	United States of America	UNITED 1.025% 10/20	USD	CP	1036	\$162,998	0.01%	30-Apr-23
9378192	Mountain Skiing Ultra Vacations	People's Republic of China	BANK OF CHINA 2350 08/19	USD	CP	1450	\$138,833	0.01%	30-Apr-23
9378192	Mountain Skiing Ultra Vacations	JPMorgan Chase & Co.	JPMORGAN LIQUIDITY FUNDS	USD	CP	4653	\$123,213	0.01%	30-Apr-23
9378192	Mountain Skiing Ultra Vacations	Union State of America	US TREASURY	USD	CP	1365	\$119,463	0.01%	30-Apr-23
Total							\$24,981,498	1.61%	

Total Portfolio: \$1,498M

Compliance Violations: 5

Accounts: 11

Counterparties: 207

Security Types: 7

Weighted Average Rating: AA

ICD | Portfolio Analytics

Exposures as of EOD: 31-Jul-2023

Entity: All, Account Types: All, Account: All, Counterparty: All, Sponsor LT Rating: AI, Security Type: AB, Domicile: All, Exposure Type: All

Counterparty Domicile

Country	Code	Exposure	\$ Limit	% Exposure	% Limit	Headroom
Japan	JP	\$24,773,569	\$25,000,000	1.02%	1.00%	(\$2,205,901)
Canada	CA	\$9,148,513	\$9,000,000	0.61%	0.50%	(\$1,059,277)
France	FR	\$10,345,836	\$10,000,000	0.69%		(\$345,836)
Switzerland	CH	\$167,022,163	\$170,000,000	11.15%	12.00%	\$2,977,837
Germany	DE	\$5,796,239		0.39%	1.00%	\$8,182,233
Cayman Islands	KY	\$64,363,613		4.30%	5.00%	\$10,528,748
China	CN	\$148,208,840	\$190,000,000	9.89%	15.00%	\$41,791,160
United States	US	\$1,044,000,352	\$1,250,000,000	69.70%		\$205,999,648

Country: Japan, Exposure: \$24,773,569, Headroom: (\$2,205,901)

Country: Canada, Exposure: \$9,148,513, Headroom: (\$1,059,277)

Country: France, Exposure: \$10,345,836, Headroom: (\$345,836)

Country: Switzerland, Exposure: \$167,022,163, Headroom: \$2,977,837

Country: Germany, Exposure: \$5,796,239, Headroom: \$8,182,233

Country: Cayman Islands, Exposure: \$64,363,613, Headroom: \$10,528,748

Country: China, Exposure: \$148,208,840, Headroom: \$41,791,160

Country: United States, Exposure: \$1,044,000,352, Headroom: \$205,999,648

“Thanks ICD team for being great partners and working diligently with us to make our investment reporting effortless, accurate and timely.”

Andre Douzjdian, Chief Financial Officer SANDAG

VISUALIZE PORTFOLIOS ON YOUR DESKTOP OR ON THE GO

CUSTOMIZE VIEWS WITH DASHBOARDS

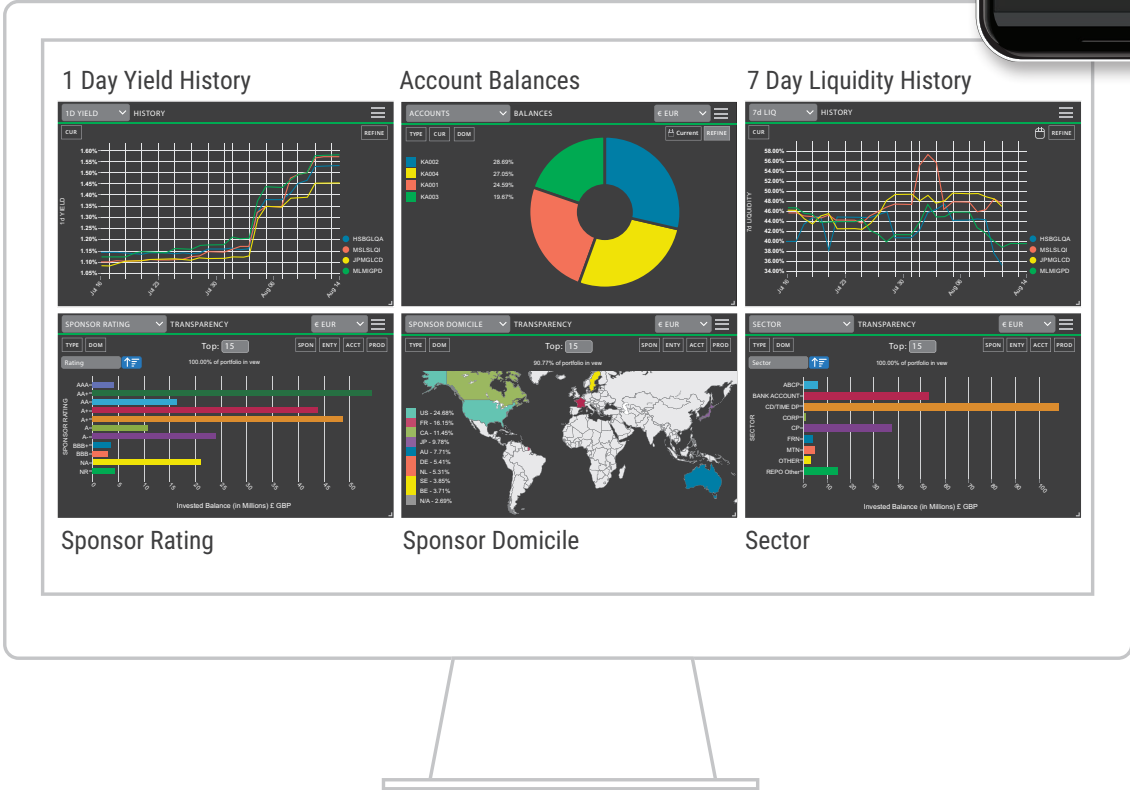
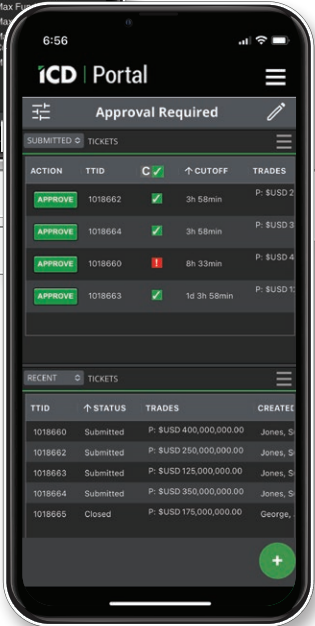
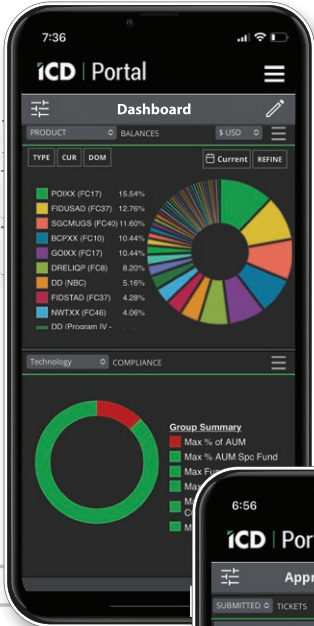
Treasury can present investment information to a range of stakeholders on the finance team – from analysts to the CFO, using highly visual and customizable dashboards in ICD Portal and ICD Portfolio Analytics.

Use dashboards as your control center to analyze multiple views of your investment data. Easily visualize compliance and drill down into data for granular analysis. You can print or export information in a matter of seconds.

VISIBILITY ON THE GO

Treasury teams need immediate access to portfolio information. Make decisions on the go with the ICD Mobile App. Securely review investments, exposures and policy guidelines from your mobile dashboards.

In the ICD Mobile App, you can view trade status, and for those requiring dual trade authorization or trade approval, you can accept or reject trades from wherever you are.



“The great thing about ICD is they are agnostic - so you have lots of products, transparency and control.”

➤ Roger Biscay, SVP Treasurer, Global Risk Management
Cisco Systems

“The ICD dashboard solves everything for us.”

➤ Vishal Thacker, Assistant Treasurer and Chief Investment Officer
Alameda County



ICD GLOBAL SERVICES – YOUR EXTENDED TREASURY TEAM

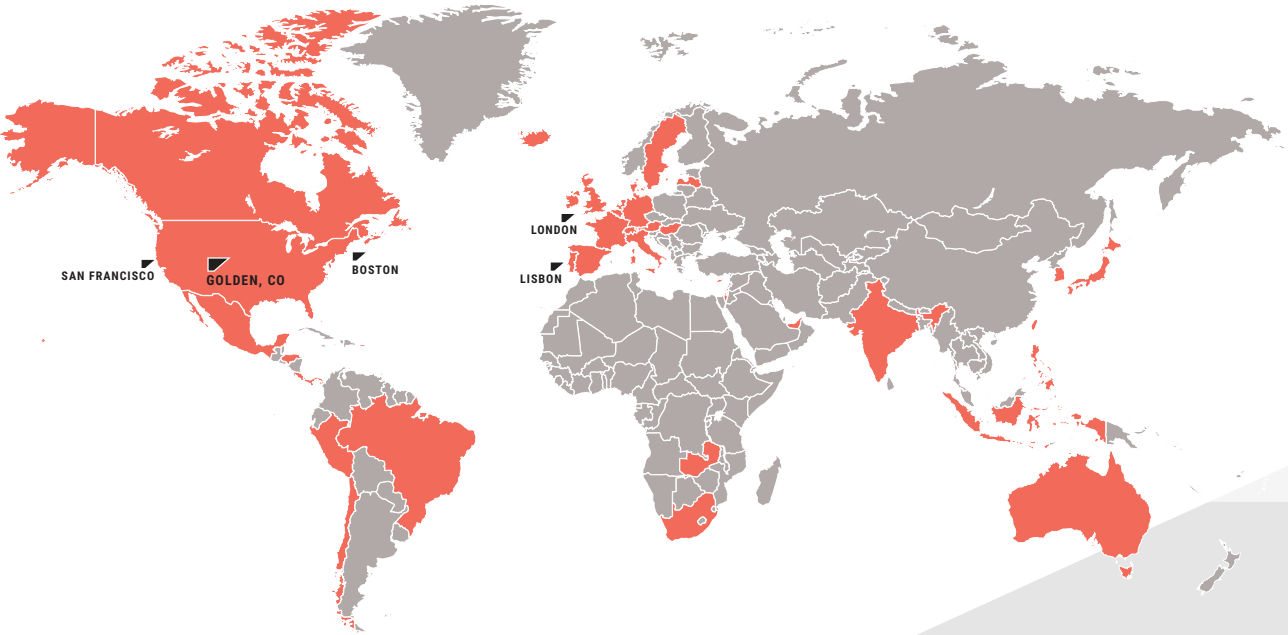
ICD is an extension of your treasury team. Each year, 99% of clients responding to our annual survey say our service is excellent or above average. Our dedicated team supports your organization throughout the life of your engagement with ICD to ensure you are getting the full value out of our solutions.

ICD Portal Team

ICD Portal’s Global Trade Desk is available each business day across nine time zones. Our licensed traders and experienced relationship managers deliver ICD’s renowned high-touch client service based on a thorough understanding of each client’s trading requirements and specific business needs.

ICD Portfolio Analytics Team

Comprehensive portfolio analytics is only possible with a holistic view of your portfolio. ICD employs leading-edge technology as well as data experts who understand the dynamics of data aggregation and normalization for investment analysis and reporting. Our highly specialized experts ensure third-party data is ingested, processed and represented accurately.



“Thank you ICD Team, you are amazing!
You were able to save me a whole day of work.”

■ Mihaela Mihaylova, Senior Manager, Treasury Global Cash and Investments
The Coca-Cola Company



INVESTING IN TREASURY

Each year our clients win awards using ICD’s investment solutions, developed collaboratively. Together, we continue to move the treasury industry forward with innovations that help teams overcome the challenges of investing in dynamic markets. Where treasury invests, ICD invests in treasury.

For more information, contact us at icdportal.com



“From streamlining our investment operations to providing proactive support—especially in a challenging macro environment—ICD offers a combination of product and service that is outstanding.”

✓ **Robert P. Williams**
Former Director International Treasury
Interpublic Group

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