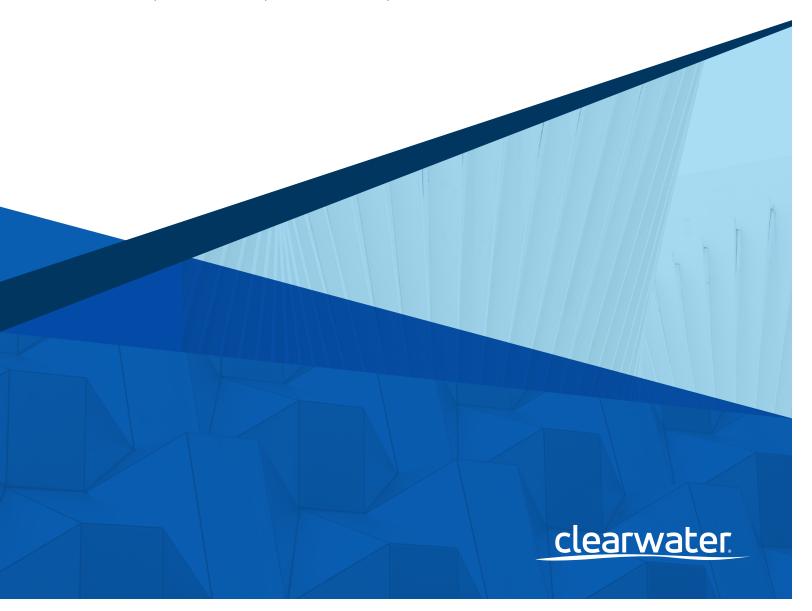


# U.S. Bank Portfolio Analytics

ACCOUNTING | COMPLIANCE | PERFORMANCE | RISK



### U.S. Bank's Approach

U.S. Bank partners with Clearwater Analytics to provide the infrastructure our clients need to responsibly manage investments, diversify asset classes, and scale with any data management needs that may arise in the future. Investors need to have access to the most accurate, timely, and integrated portfolio data available to make informed decisions, drive periodic reporting requirements, and maintain ongoing portfolio analysis.



# Automated Data Aggregation

Clearwater builds and maintains hundreds of connections to investment managers, fund administrators, custodians, brokers, and data vendors. This provides a centralized system for back-office and security master data.



# Data Reconciliations and Validation

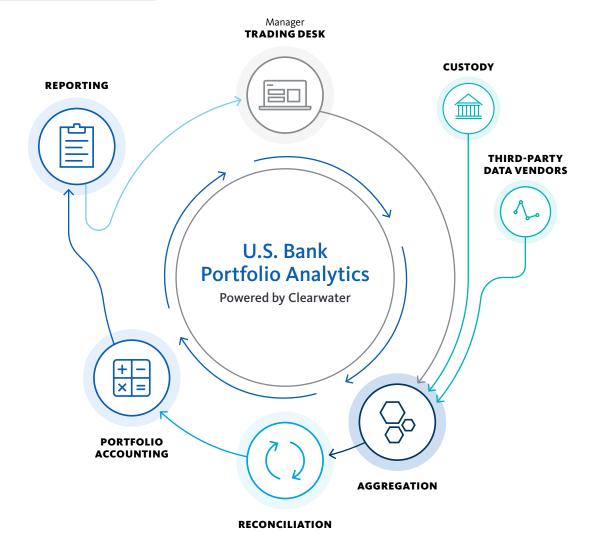
Clearwater reconciles cash, positions, and transactions between various sources (investment managers, custodians, and others). Clearwater has teams dedicated to enriching and standardizing security master data for various asset classes, including accounting and performance verifications.



# Portfolio Accounting and Reporting

These processes feed Clearwater's multi-asset class, multi-currency, multi-basis investment accounting and performance system, which produces accruals, book values, market values, and other accounting data needed to drive both the daily trading cycle, as well as the other reporting and analysis functions.

#### **DATA MANAGEMENT SOLUTION**



# Configurable Reporting for Your Needs

U.S. Bank Portfolio Analytics is a dynamic web-based solution that enables you to create and modify reports and dashboards. Tailor both high-level and in-depth portfolio views, powered by clean, validated investment data for your portfolio book-of-record accounting, compliance monitoring, performance metrics, and risk analytics.

#### **Reporting Features**

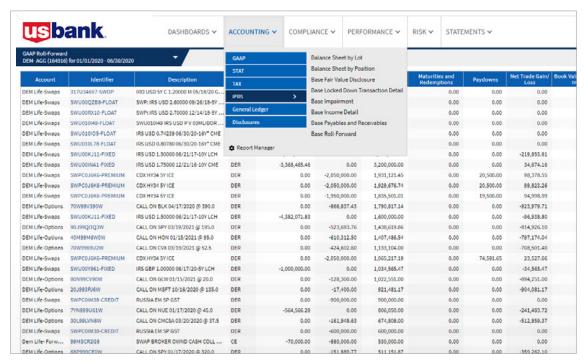
- > Add, remove, sort, group, and filter columns
- > Share reports with team members and save for easy reuse
- > Download customized reporting packages

#### **Dashboard Features**

- > Monitor trends, measure performance, and track critical investment information at a high level
- > Easily add, move, and customize widgets
- > Create and save as many dashboards as desired

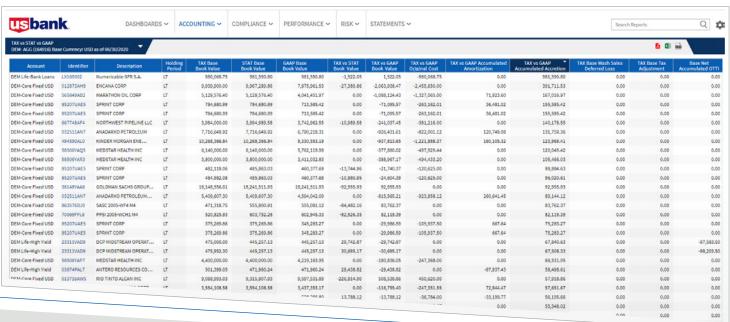


### Accounting



#### Sample Reports

- > Roll-Forward
- Multi-Basis Tie-Outs (GAAP, STAT, Tax, etc.)
- Tax Lot Holdings
- > Transaction Detail
- > Payables and Receivables
- > Net Income Detail
- > Impairment Analysis
- > Amortization/Accretion
- Custom Footnotes and Disclosures
- > Historical Financials
- > Trial Balance



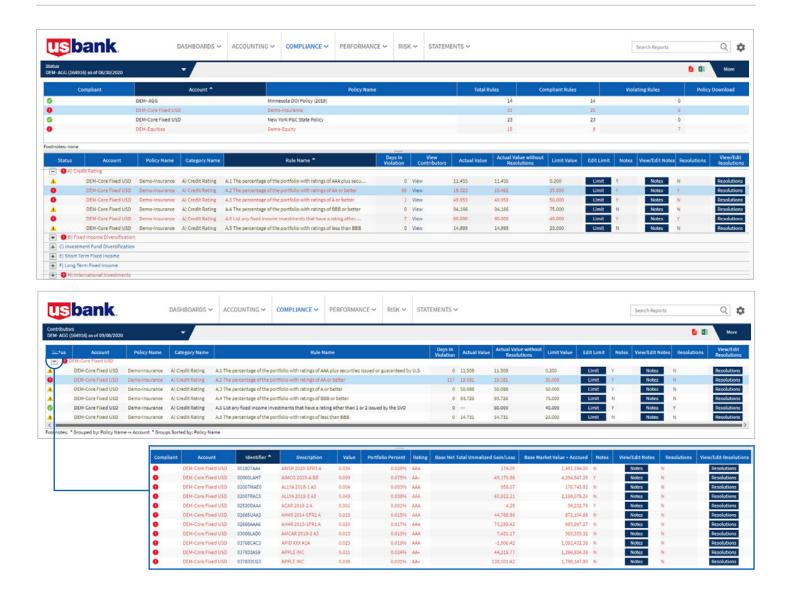
#### **OVERVIEW**

U.S. Bank Portfolio Analytics provides accounting for multiple asset classes and currencies to accommodate clients' needs across the globe. The system can be configured to any accounting basis including GAAP, Statutory, Tax, IFRS, and others.

Easily customize disclosure reports and other standard balance sheets, income statements, and roll-forward reports. You can group data on multiple levels, write formulas, pivot, and add or remove non-module-specific data points. Accounting information can be pulled into varying types of reports, like risk and performance, to allow for a more comprehensive analysis.

Powerful automation provides standardized investmentrelated disclosures such as Fair Value Hierarchy and Level 3 Roll-Forward.

# Compliance



#### **OVERVIEW**

U.S. Bank Portfolio Analytics provides actionable, up-to-date information regarding portfolio compliance on a daily basis. The compliance module is fully integrated with your accounting book of record data and can track any data point on the Portfolio Analytics system, across multiple accounts, managers, or business units.

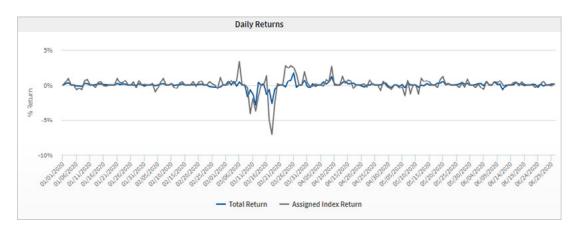
This independent monitoring proactively sends you compliance status notifications, including:

- > Internal investment policy and state policy monitoring
- > Automatic email notifications
- > Complete history and analysis

#### Sample Reports

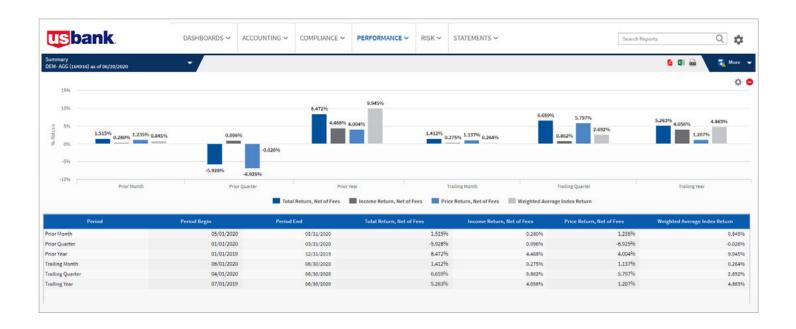
- > Status
- Contributors
- History by Date
- > History by Rule
- Audit

### Performance



#### Sample Reports

- › Performance Summary
- > Performance Returns
- > Performance Details
- > Performance Comparison
- › Benchmark Comparison
- Risk-AdjustedComparison
- > Contribution
- > Equity Attribution
- > Fixed Income Attribution



#### **OVERVIEW**

U.S. Bank Portfolio Analytics provides versatile performance reports that offer users the most valuable, accurate, and relevant information for performance measurement. Additionally, these reports are integrated with the accounting module, which provides daily reconciled data. This integration enables clients to have in-depth insight into the underlying factors contributing to a portfolio's market value.

- Analyze different return types: time-weighted returns, money-weighted returns, book returns, price returns, and income returns
- Incorporate multiple time range selection, gross up/ gross down tax methodology, and different fee types for comparative analysis

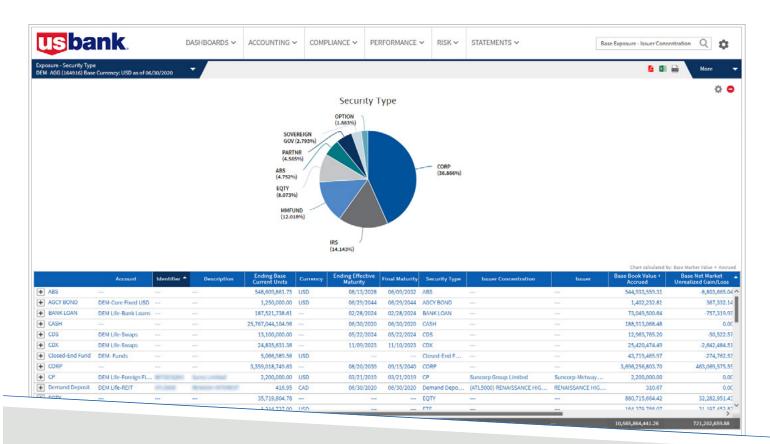


#### Sample Reports

- > Issuer Exposure
- > Security Type Exposure
- > Currency Exposure
- Country Exposure
- > Duration Exposure

- > Industry Sector Exposure
- > Credit Rating Exposure
- > Index Comparison
- > Credit Events
- Shock Analysis

- > VaR
- Historical Trends
- > Historical Exposure
- > Cash Flow Forecast



#### **OVERVIEW**

U.S. Bank Portfolio Analytics provides insightful risk analytics on-demand to ensure investment teams have access to their clients' portfolio exposures. Utilize timely and actionable data to analyze by issuer, currency, country, duration, credit rating, and more. Risk summary reports have drill-down capabilities to display the underlying data at the tax lot level.

With U.S. Bank, you'll have access to data for better portfolio analysis, including:

- > Multiple and blended benchmark comparisons
- > Credit rating monitoring and downgrade notifications
- > Cash flow forecasting
- > Value at risk (VaR)

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