

BNY Mellon & Bloomberg Buy-Side Solutions

Data integrations and digital capabilities delivering
choice and flexibility to our common clients.



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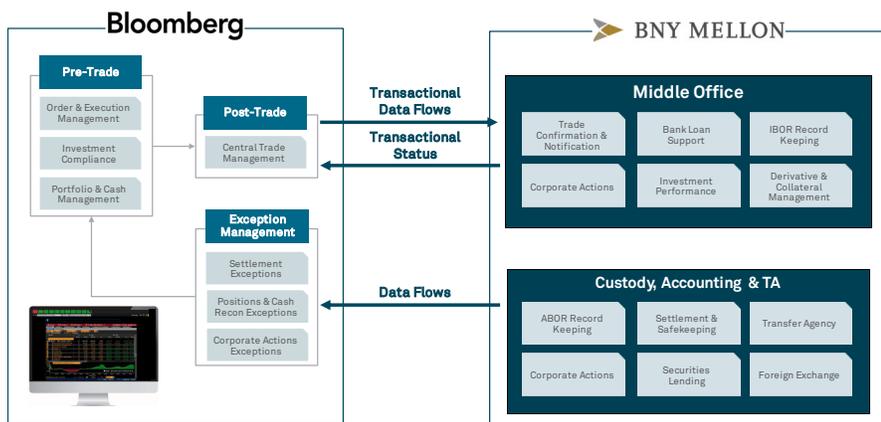
Bloomberg

Buy-Side Solutions

Delivering simplicity, automation and transparency for more streamlined workflows across the investment lifecycle.

BNY Mellon and Bloomberg are leading the transformation for front-to-back operating models by integrating across multiple products using both digital capabilities and data channels to create additional value for our mutual client base. The joint Order Management System (OMS) integration model delivers operational efficiency across the investment lifecycle by providing seamless trade processing, settlement exception management, cash and position reconciliation and integrated portfolio analytics. The strategic alliance also highlights the interoperability of our ecosystems while providing better and timelier information, more efficient workflows and more effective analysis for our mutual clients' front office, risk, operations, and technology teams.

BNY Mellon and Bloomberg Buy-Side Solutions Front-to-Back Workflow



Unique integration capabilities:

- Direct link between Bloomberg's Order Management System, AIM, and BNY Mellon Middle Office services for trade matching and settlement
- Direct link with BNY Mellon's Middle Office for settlement exception management and near real-time reconciliation
- Turnkey integration of portfolio holdings for use in front office tools within Bloomberg's Portfolio & Risk Analytics and Multi-asset Risk System

The integration reduces the need for manual intervention and data points that require reconciliation, and thus contributes greatly to the integrity of position and cash data throughout the investment lifecycle.

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More effective analysis.*

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Near Real-Time Settlement Connectivity: Friction-Free and Easy to See.

Streamlined post-trade workflows go a long way in helping to manage risk, improve efficiency and enhance transactional speed and accuracy. A frictionless integration means that you can now say goodbye to inefficient manual settlement processes. Through this tighter, streamlined integration, you can easily send settlement instructions and view detailed trade status information directly in the post-trade landing page.

Managing Fails

A near real-time integration with Bloomberg's FailStation provides actionable insights into failing and pending trades earlier in the settlement process, making it quick and easy to identify and resolve failing trades. Enriched data feeds with descriptive information of a settlement not only helps Settlement Teams appropriately prioritize fails, but also helps identify the root cause and solution. New data points include Fail Reason Full Description, High Level Fail Category, and a Final Action, which is a calculated detailed status update to inform the user if they need to take action on the trade.

Key benefits:

- Increased STP rates by replacing legacy or manual trade instructions for certain transaction types and assets
- Significantly improves settlement oversight with enhanced settlement details not available via SWIFT
- Access to near real-time and actionable data to enable quicker investigation and resolution of pending and failing trades
- Reduced operational risk and work effort through higher degrees of automation and a fully-integrated technology architecture

This holistic view of the trade, in the context of the whole settlement lifecycle, helps better prioritize trade monitoring and oversight to help your productivity.

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Lower the Risk, Increase the Efficiency.

An enhanced reconciliation process offers multiple benefits— from greater efficiency to reduced risk. These are key competitive advantages in a market that is ever changing and increasingly complex, that help firms build a strong foundation for long-term success.

Cash Reconciliation

Timeliness. Accuracy. Security. Just some of the major benefits of an optimized and integrated cash reconciliation process. With the integration of BNY Mellon's custody and accounting cash information with Bloomberg's reconciliation application, you can now realize these and other advantages, while maximizing operational efficiency.

Position Reconciliation

The positions reconciliation fully integrates BNY Mellon's positions file within the Bloomberg's Reconciliation (REC<GO>) application. This platform provides a fully automated, highly configurable reconciliation and workflow solution to compare position and transaction data from multiple sources, identify exceptions, and manage their resolution.

Integrated Technologies

Our integrated technology is designed to simplify your workflow, allowing precise insights into your daily cash, transactions and holdings, and seamlessly integrate data from our system directly into your applications. Streamlining the end-to-end cash and position management workflow means greater efficiency for front, middle and back offices with readily available, accurate and tradeable information.

Intra-Day Synchronization

Traditionally breaks are realized next day using end of day (EOD) data. With a near real-time (T+0) feed of custody and end of day accounting information, you will have more actionable information sooner, for the investigation and resolution of exceptions. This can help reduce risk and improve outcomes. Ensuring OMS intra-day cash and position data matches the assets in custody is often an onerous and multi-step process. Intra-day feeds from BNY Mellon to Bloomberg AIM, coupled with an automated reconciliation process helps ensure discrepancies and deviations of trading and custody balances are quickly realized and remediated as necessary.

Key benefits:

- Full integration of BNY Mellon's position feed for reconciliation within Bloomberg reconciliation screen
- Reduction of operational risk through a near real-time (T+0) positions reconciliation feed, allowing for timely investigation and resolution of breaks
- Improved and more secure data integrations with BNY Mellon's positions feed
- Enhanced and more accurate positions view for front office teams, enabling more informed investment decisions
- Improved and more secure data integration through a combination of BNY Mellon's optimized cash data and SWIFT messaging
- Improved STP rates with seamless cash instructions messaging to BNY Mellon
- Reduced risk of aged exceptions

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Accurate Corporate Action Data at Your Fingertips.

Automated, accurate and timely corporate actions data can reduce risk, improve operational efficiency and streamline the investment process, particularly as the volume of corporate actions data continues to grow year after year.

Through our seamless integration with Bloomberg's Corporate Action Management Portal, you can access corporate actions data from BNY Mellon directly from the Bloomberg Corporate Actions Monitor to ensure your trading book accurately reflects its activities.

The corporate actions data integration provides you better data to enable better decisions.

Key benefits:

- Transparency and tracking of BNY Mellon corporate actions data within Bloomberg's Corporate Actions Monitor
- Improved and more secure data exchange via SWIFT messages from BNY Mellon
- An ability to compare corporate actions data from both BNY Mellon and Bloomberg in one centralized place
- Timely and comprehensive data – making it possible to analyze critical corporate actions information directly from the order management application

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Get more effective analysis.

Built-in integration delivers faster, cleaner, near real-time data.

Good data in, good data out. It's the oldest equation in the books, and when it comes to feeding custody details, cash summaries, Net Asset Values and other critical information into Bloomberg AIM, it's as true as ever.

But getting accurate, consistent, real-time data to your front-office team consumes considerable resources and requires constant attention. And do you know you're delivering the up-to-date information your team needs to manage your portfolio activities?

Get better information, as fast as possible.

BNY Mellon's integration within the Bloomberg environment offers the free flow of transaction data between systems — securely and automatically.

You don't sacrifice quality, accuracy or speed. Instead, you eliminate busywork, so you can redirect your resources to what you do best: investment management, client management and, ultimately, growing your business.

Efficient workflows and more effective analysis.

Automating the data integration brings you immediate results:

- More efficient transfer of data across the investment lifecycle processes that reduces friction and inefficiencies
- Automation and exchange of data that increases straight through processing
- Reduction of exceptions in the investment process, failed trades and reconciliation items

The integration is already done, so the benefits are immediate.

- A simple, quick-to-set-up solution
- Near-real-time information
- Automated data feeds for greater data frequency
- Enhanced data transparency

Integration means everything.

With this alliance, you'll see higher STP rates and reduced reconciliation items. You'll also reduce cash and stock exceptions, as well as shared workflows, effectively improving time-to-resolution. And with fewer query volumes, you'll have fewer emails, phone calls and other interruptions. And you'll have it all on a single platform.

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Drill down deeper *into each transaction.*

Review transactions with an enhanced level of detail and accuracy, viewing by account, date, asset type, location, type, or status. You can even search for a particular security, currency or reference number and produce transaction summaries and reports with unparalleled specificity.

It works the way you want it to.

When you can customize the account data you want to see — using filters and near real-time processing — you can run activity summary reports that get straight to the point, highlighting detailed transaction and security information about each trade. And with a tabular view of transactions (Buy, Sell, Cash Withdrawal, etc.), everything is easy to find.

Users set the filters they want, so they can see precisely the data they need at any given moment and can run reports for one, multiple or all of their accounts.



Smart filters that are nothing short of brilliant.

With results from your initial inquiry in hand, you can further refine your search with the following filters:

- **Contractual Settlement Activity** — displaying all account activity with pending or settled status
- **Projected Income** — showing all activity for accounts with projected income for corporate action, dividend, interest, maturity, pay down/up and other transaction types
- **Security Transaction History** — filtering transaction data for the previous six months for a specific security within all or select accounts
- **Status Filters** — showing transactions with Pending, Failing, Open or Executed status

Additionally, an Ad-Hoc Query lets you define your own filters to locate data specific to your needs. And an Active Detail Report, which includes transaction and security details, allows you to drill into the holdings-detail level, providing position information for a particular trade — without having to run a separate report.

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Simpler trade reports *with greater detail.*

With one tool, you can now easily track the status of trades, positions and securities; view traded and settled positions; and drill into the detailed status of trades and holdings information — in near real-time.

The information is consolidated across your holdings, so you can see precisely what you need — and only what you need — at any given moment.

With the Custody Holdings, you can run a report for one, multiple, or all of your accounts simultaneously. You can also run a Holdings Summary and get a clear and concise view of positions, filtering your selections with real-time global securities processing data.

This type of reporting detail allows you to:

- Use simple filters to quickly customize the data in your report
- Drill down to the detailed holdings and security information about each position

You'll also be able to run a holdings detail report with position and security details — and dive into an activity-level summary to see the trades behind each holding, without running a separate report.

Users query holdings by account, asset type, position status, location or by a specific security, producing the desired position summary and detailed reporting.



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Get intraday data *for on-time decisions.*

Seeing the steps of the net asset value (NAV) process allows you to track funds through the various events in their lifecycle, from transaction closure and valuation to audit and dissemination.

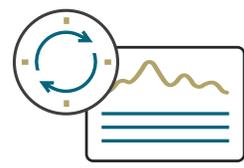
How long do you like to wait for information?

NAV Construction consolidates data all day, not simply the end of the day, delivering a far sharper view into the four key steps along the trading process:

- **Transaction** — Processing and validation of security trade, capital share, cash settlement, corporate action, income and expense activities
- **Valuation** — Application of security prices and exchange rates
- **Audit** — NAV calculation, tolerance and exceptions validation
- **NAV Dissemination** — Including NASDAQ™ release

With NAV Construction, you not only see which step a particular trade is in, you can proactively monitor the percentage of progress completed,

Users can see and track progress across all funds, throughout each day. And they can drill down into the particulars at any point for greater detail.



all with a quick peek at the dashboard. You can dive deeper to view fund-level-status details, and you can easily package and share dissemination details in Excel™ or via PDF. There's even a simple solution for reviewing historic details across the life of the NAV timeline.

Know what you're missing.

The solution's predictive analysis feature highlights each fund's risk of missing the deadline for the market NAV dissemination process. And with this information cataloged, you can view the number of funds in each process event that achieved the target, surpassed the target, or has not fulfilled the target time.

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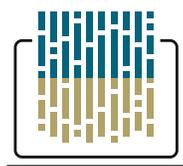
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Monitor cash activity – *in near real-time.*

When it comes to cash,
waiting gets you nowhere.

And with the Custody Cash Summary, you can see your currency accounts in near real-time, anytime. View opening balances and use adjustment entries to forecast end-of-day totals and closing balances. And see if you have an overdraft, or if there is one projected.

*Custody Cash
Summary opens
with the data already
loaded, so you can
see what you need
right away.*



Putting the Custody Cash Summary
solution to work for you.

When launched, your data automatically loads for your accounts, using BNY Mellon data.

- You can display a subset of accounts to tailor your view.
- You can also select specific cash accounts or an account group containing cash accounts.

Apply the filters you prefer to view by:

- Status (settled, pending, failed or cancelled)
- Transaction (buy, sell, income and corporate action)
- Date range (real-time today, previous day, future days)

Dive into a particular account-transaction type to view information like net debit or credit totals, units amortized, contractual settlement dates and transaction timestamps.

Use the drill-down feature to see the underlying transactions — the buys, sells and cash withdrawals — that impact value.

See the balances you want — by currency or by account, across all your accounts — in near real-time, on one line.

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See more valuable *information in less time.*

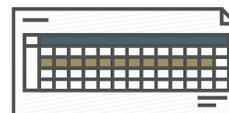
Now, nothing gets in the way of viewing variances in the NAV of a given fund.

BNY Mellon can give you a deeper dive into net asset value (NAV) fluctuations, so you can spot any significant changes, see what's causing them and, ultimately, help make sure you're accounting and pricing correctly.

Get a closer, clearer look at NAV fluctuations.

You don't have to sift through a mountain of insignificant data. And you don't have to worry that you're going to miss a significant NAV shift in a particular fund. And with NAV Impact Analysis, you'll even be able to track moves within individual securities that may affect multiple funds.

*NAV Impact
Analysis filters
out the noise
and highlights
the NAV changes
that need
attention.*



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