



- 2 Four Critical Advantages
- 3 The Bloomberg Integration Framework
- 4 Enterprise Gateway and Integration Console
- 5 Integration Console
- 6 Solutions for Trading

Make agility attainable.

HARNESS THE FULL POWER OF YOUR DATA

Financial firms rely on dozens of critical systems to develop and execute strategies, evaluate risk, track P&L, manage sales and trading, and handle settlement. These workflows are deeply integrated and highly interconnected. Their complexity is extraordinary.

The constant challenge firms face is managing these systems so that data moves across the enterprise correctly at higher speeds and lower costs.

Building solutions in-house can take a large team and a larger investment. Integrators and consultants may not know your business or your data.

Connectivity & Integration Solutions (CIS) delivers a more strategic approach. Only Bloomberg CIS combines the technology products to manage integrated systems; the solution architects to design, build and analyze managed capital markets workflows; and the professional services to implement changes at scale.

Solve enterprise integration without giving up control.

When firms invest in a new system, the up-front cost is often many times smaller than the investment required to make it work and keep it working correctly as regulations and markets evolve. Every firm is dealing with this reality. That is why Bloomberg CIS developed a different and ultimately more cost-effective approach.



Lower Total Costs

Financial services firms are not designed to create best-of-breed software. Outsourcing is clearly a viable strategy. But paying a third party for development only gets you halfway there. If you have to host it, maintain it and upgrade it, any initial savings will be lost. Bloomberg CIS provides turnkey solutions that include development, integration, hosting and change management. This all-inclusive model significantly lowers total cost of ownership (TCO).



On-site solutions compromise innovation. Reactions to regulatory and market changes slow down. Implementation requires longer lead times. Scaling up can bog down in bureaucracy. Cloud-based solutions are more agile, enabling you to provision new systems—and build competitive advantage—at a faster pace. CIS specializes in hosted solutions that feel locally deployed, but actually leverage Bloomberg's global infrastructure.



Firms are reluctant to cede control over critical systems and data. Bloomberg CIS leverages a full range of encryption and segregation techniques to mitigate risks. In addition, we provide global transparency. Technologists can easily monitor system status, configure connectivity, orchestrate processes and receive alerts, all through one intuitive interface. And, if issues arise, our solution architects are available

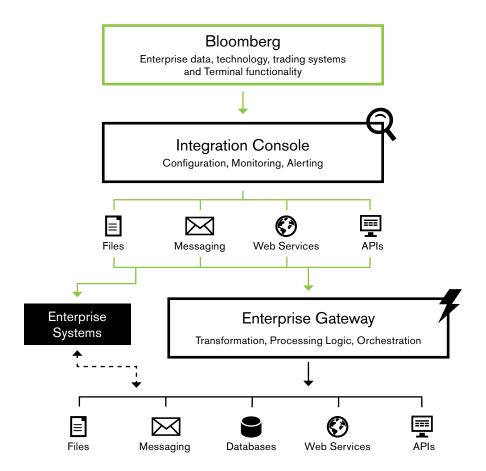
24/7 to provide expert service and support.



Many providers in the integration space lack experience in finance. Bloomberg CIS has a proven track record of providing hosted solutions for financial firms. We have invested in technology products and techniques specifically designed to support global capital markets. These solutions leverage one of the world's largest financial networks. They are integrated with our trusted data, the Bloomberg Professional® service and the full Bloomberg portfolio, including Global Service Bureau connectivity for execution, matching, regulatory reporting and settlement.

Transform enterprise efficiency and agility.

The Bloomberg Enterprise Integration Framework allows firms to connect any source of data to any destination from a single, powerful point of control. Firms that deploy this framework can master complex business processes and unlock the full potential of enterprise data.



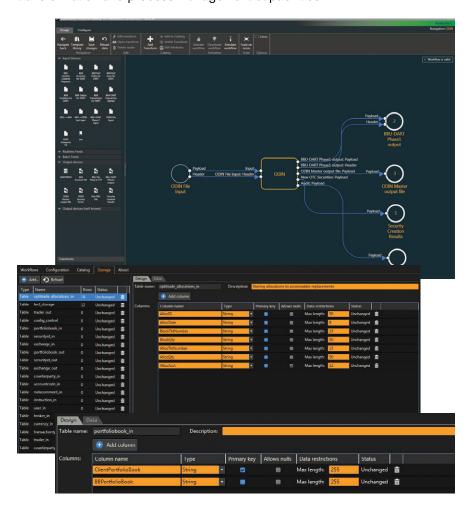
- The Integration Console is a centralized interface that gives in-house technology and operations teams visibility into every connected system, including Bloomberg, proprietary and third-party offerings. It creates a seamless, uniform experience for all Bloomberg solutions across the enterprise.
- The Enterprise Gateway is hosted, managed middleware specifically designed for capital markets. It processes data feeds in any format, from any source, transforming them for fast, easy consumption by a wide range of integrated systems.

Take advantage of innovative technology.

Bloomberg CIS has been at the forefront of enterprise integration for a decade. By solving client challenges through thousands of implementations, we have acquired unique expertise, which we incorporate into a complete portfolio of technology products backed by best practices and built exclusively for capital markets.

ENTERPRISE GATEWAY

This versatile managed middleware solution has been specifically designed for capital markets. It manages globally interconnected systems between your enterprise, third parties and Bloomberg, offering enrichment, transformation and process management capabilities.



- Accelerate implementation and upgrades with hosted and managed middleware that can integrate global enterprise systems
- Achieve straight-through processing (STP) within the enterprise, involving the front office, middle office and operations
- Develop custom processing logic, data and protocol transformations for business process management (BPM)
- Leverage persistent storage and cross-reference facilities to manage linkages between interconnected systems
- Employ thousands of preloaded operations and reusable functions made available via a graphical user interface
- Enable reliable service bureau connectivity across execution, matching and settlement

ANY-TO-ANY CONNECTIVITY

CIS provides any-to-any connectivity by translating protocols between interconnected systems that communicate in different ways. We also continue to focus on distribution security by leveraging and supporting encryption methodologies, public key infrastructure, IP filtering and robust authentication and authorization models.

Summary of connectivity options:

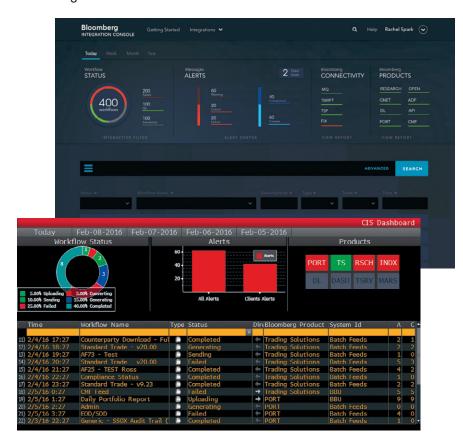
- FIX
- SWIFT (MT/MX)
- FpML

- API for Python, Java, C++, C# and VB
- IBM WebSphere MQ or JMS compliant

- Proprietary
- Web Services
- File Uploads (SFTP or local file shares)

INTEGRATION CONSOLE

This intuitive interface provides a complete view of enterprise systems. It enables firms to manage, monitor and alert on all points of integration between Bloomberg and enterprise systems, as well as control scheduling and configuration of real-time and batch feeds.



- Customize delivery schedules, event-driven subscriptions, event triggers and destinations
- Orchestrate dependent and automated processes
- Proactively identify and quickly address potential issues
- Ensure healthy enterprise connectivity by monitoring and alerting on integrated systems
- Verify the health of dependent processes through key performance indicators (KPIs)
- Generate reports on global enterprise connectivity, historical alerts and data usage

Accelerate daily trading processes.

CIS offers a range of technology products designed to assist firms that rely on Bloomberg technology, as well as specific support for offerings such as Asset Investment Manager (AIM) and Trade Order Management Solutions (TOMS).

APPLICATION DEVELOPMENT FRAMEWORK (ADF)

ADF enables programmatic access to OMS, reference and analytic data. Firms can query or subscribe to OMS data on demand as well as subscribe to position and transaction changes and receive updated records in real time throughout the trading day.

CERTIFIED THIRD-PARTY INTERFACES

These pre-integrated solutions connect Bloomberg solutions with a growing library of certified third-party systems, making it easier for firms to integrate all preferred systems across the enterprise without heavy investment in infrastructure, tuning or maintenance.

CROSS-REFERENCE AND CUSTOM DATA MANAGEMENT

Cross-reference facilities enable clients to map internal identifiers—for securities, portfolios, trades, exchanges and counterparties—to corresponding Bloomberg identifiers for the purpose of engineering enterprise-grade STP.

WORKFLOW EXTENSIONS

Integrate a variety of internal systems for decision support, compliance, matching, execution and accounting. Combine virtually any proprietary, legacy or third-party system with Bloomberg OMS platforms to develop seamless, globally connected workflows.

Get responsive professional service.

Unlike offerings from many integrators and consultants, Bloomberg CIS solutions include 24/7 support from solution architects who ensure that solutions align with specific business needs and implementation specialists who minimize operational risk during system migration to ensure smooth onboarding.

IMPLEMENTATION

Implementation services and a detailed project plan are included with every CIS engagement. The process starts with a scope of work that outlines exactly what will be accomplished. With this document approved, our team moves forward with connecting the appropriate systems, building the implementation and maintaining the integration, including basic change management.

ANALYSIS & DESIGN

When firms require a more comprehensive approach to enterprise integration, CIS provides an in-depth analysis and design service. This engagement involves extensive scoping of current enterprise-wide architectures, deep analysis of opportunities for consolidation and improvement, and recommendations for how to achieve these goals.

CHANGE MANAGEMENT

For firms that lack adequate IT resources or must abide by strict compliance guidelines that forbid interaction with any third-party systems, CIS offers change management services. In these cases, a CIS team addresses any changes needed to CIS-enabled integrations.

Industry-Leading Service

Bloomberg has more than 30 years of customer service expertise; support is included in every Bloomberg solution. Clients can expect responsive, coordinated service from a dedicated team as well as 24/7 access to experts who can assist with any issue or concern.

Enterprise is everything.

BLOOMBERG FOR ENTERPRISE

To succeed today, financial institutions must respond to challenges that are not addressed by traditional approaches. They require world-class solutions that integrate people, processes, information and technology for the front office, middle office and operations. Bloomberg partners with these institutions to protect and capitalize on data, manage risk, deliver transparency and control costs. Through enterprise-level expertise and three decades of deep industry experience, Bloomberg creates real value through the use of innovative technology that turns data into a strategic asset.



