

# Bloomberg Broadway Technology Layer Fact Sheet

The Bloomberg Broadway Securities Suite helps market participants maximize efficiency, profitability and workflow performance. With its customer-centric approach, combined with innovative technology, collaborative consultation and expert support, Bloomberg Broadway helps clients manage their most complex instruments and trading strategies and creates an open environment for new pathways to volume and revenue growth.

Layer 3	Trading Solutions	Order Execution & Client Trading
Layer 2	The Toc™	Application Aggregation Platform & Workflow Engine
Layer 1	Infrastructure Solutions	Hosting & Connectivity Solutions

## Greyspan – Infrastructure Solutions

Cutting-edge technology doesn't have to be a burden. Our Greyspan division complements our future-proof offering and trading solutions through full-service colocation, cloud hosting, and oversight. The fully managed turnkey infrastructure for physical, virtual and cloud offerings reduces overall cost and time to market while offering the flexibility to scale as client needs evolve. Nine colocation facilities in key data centers across North America, Europe, and Asia offer best-in class direct, low-latency, redundant connectivity to markets and between sites. Bloomberg Broadway can actively manage, monitor and maintain your fixed income trading systems in a secure, fully audited, SOC 2 Type II certified environment so your team can focus on value-creation activities.

### Global Liquidity Network:

- 70+ fixed income destinations
- 50+ FX destinations (venues and LPs)
- New York, Chicago, London, Frankfurt, Milan and Tokyo
- Low latency, high bandwidth
- Redundancy on all connections
- POP Facilitation
- PTP clock synchronization

Hosting Security Controls

<div>Secure Administration Zone</div> <div>Secure Network Access</div> <div>GPO Restriction</div> <div>M FA Jump Box</div>	Physical Security	Network Security	System Security	Application Security	Access Authorization & Revalidation	Change Management & Auditing
	Secure Facilities	Penetration Testing	CIS System Hardening	OWASP Top 10	Least Privilege Principle	Change Management Process
	Biometric	Vulnerability Management	Risk Assessment	Penetration Testing	Quarterly Credential Review	Application-Level Change Auditing
	24/7 Security Monitoring	Threat Surface Monitoring	Asset Management	Encryption at Rest	Role Based Access Control	Technology Platform-Level Change Auditing
	SOC 2 Type 2 & ISO 27001	Firewall Policy Audit	Patch Management	Segregation of Environments	Active Directory Security Group	Network Change Auditing
	Project Management	IPS/DOS	Secure Data Destruction	Toc Database Backup	HR Security Controls	Access Auditing

The Toc – Optimize Workflows Across Applications

The Bloomberg Broadway Securities Suite is underpinned by the Toc – a service that has driven scalable, high-performance distributed computing and open data access for over 20 years. The Toc powers advanced trading systems for the world’s largest financial institutions by enabling seamless interoperability among valuable tools – regardless of whether they are proprietary, third-party, or our own

Key Features & Benefits:

Seamless Integration Through a Uniform API

- Buy and build – integrate any data and technologies together, regardless of origin
- Fastest way to run applications anywhere via local networking, with automatic discovery of optimal low-latency communication routes

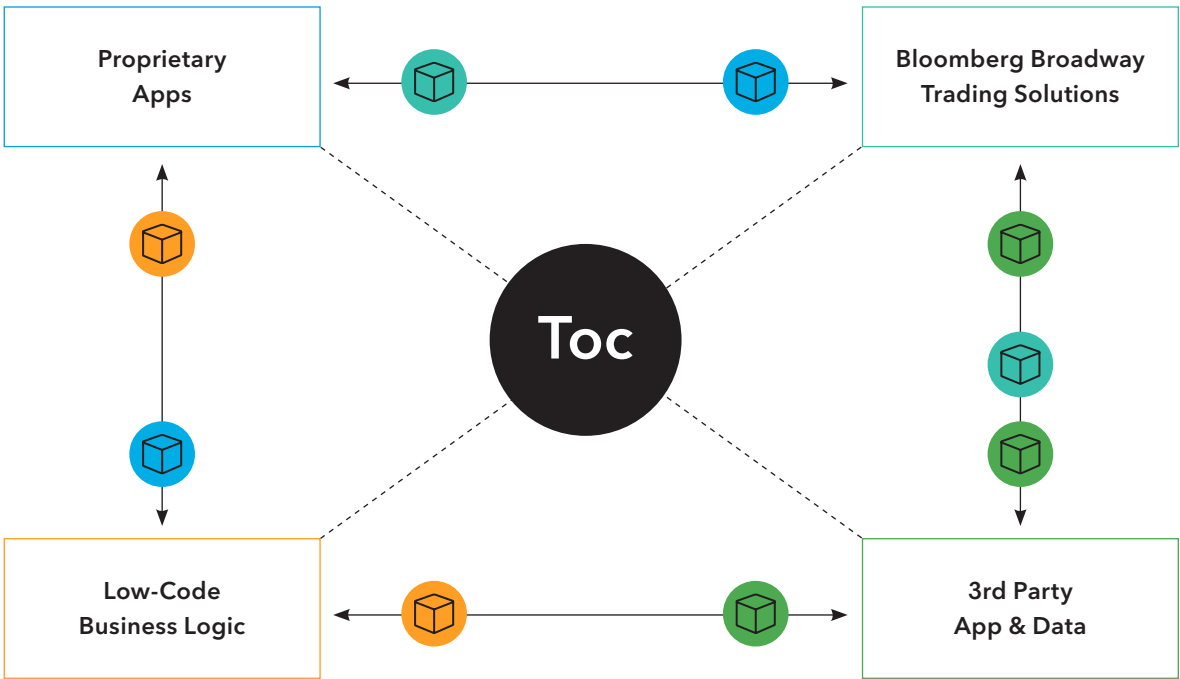
Data Normalized & Accessible Globally

- Descriptive and flexible data model incorporating fundamental object-oriented concepts
- High-performance caching, persistence, synchronization, and event processing

Workflows Designed for Innovation and Evolution

- Combine automated and human processes through modular data-oriented interfaces

Universal Interoperability



The Toc’s open and rich data-centric architecture enables clients to integrate various sources of data and external/ internal technologies. With the Toc, clients can develop multiple mission-critical applications leveraging their trading systems and integrate them seamlessly in real time. The Toc does the heavy lifting, enabling users to focus on high-ROI innovation.

- Interoperability between applications unlocks data in a way that fuels workflows and profitability.
- Open technology, code and APIs drive innovation during the next phase of market structure evolution.
- Openness gives institutions the flexibility to shape their own workflows and business rules, on top of a network of interconnected products and solutions.

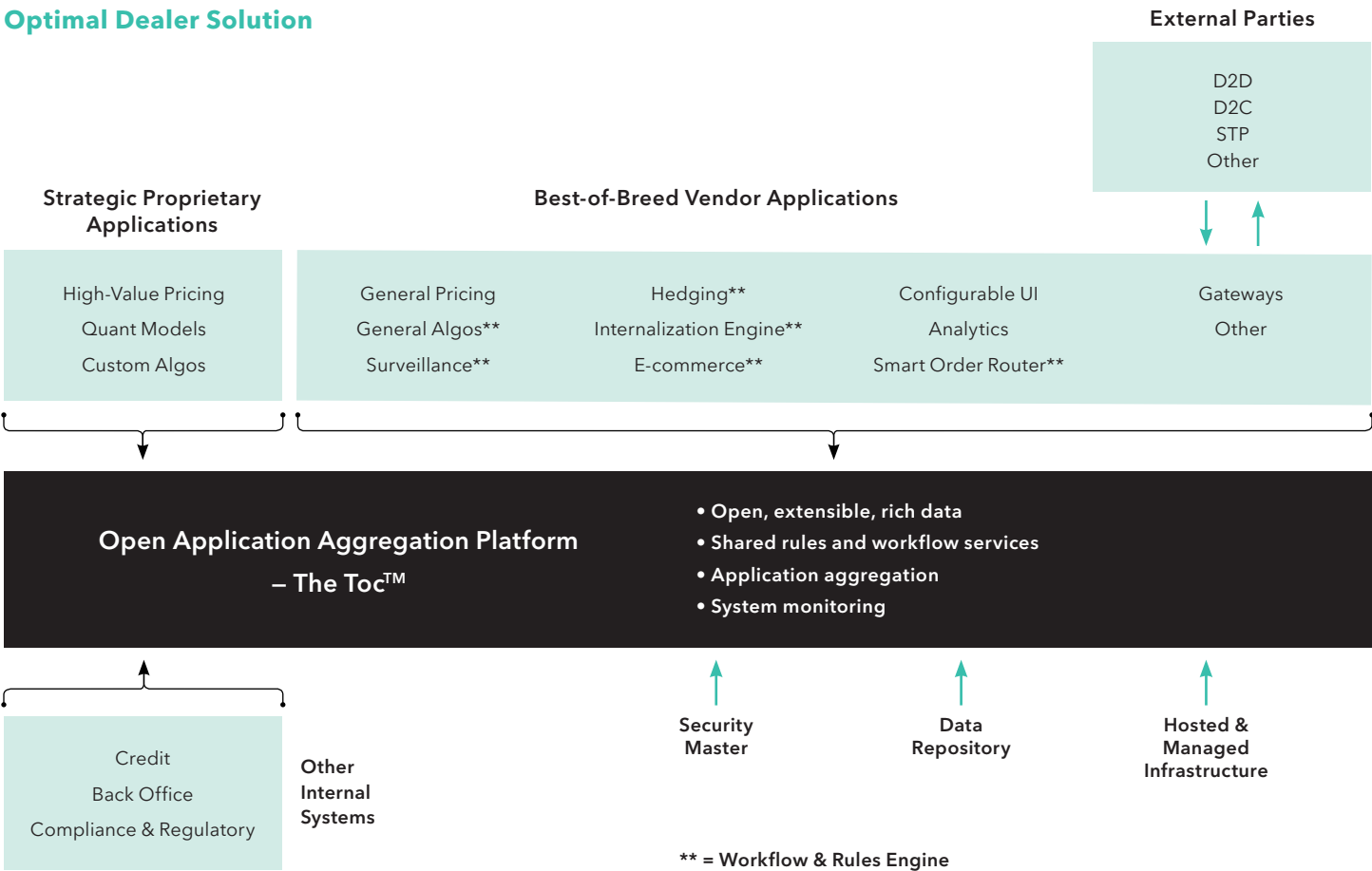
TOC™ for AA

Data-Oriented Architecture

Provides normalized and structure data objects, relationships, and workflows for aggregated applications

Apps	TOC™	Data
Produce & Interact with Data	Modular Design	Universal Access
“Applications are their data”	Configurable Workflow & Rules	Rich Modeling of Real-World Relationships

Optimal Dealer Solution



The data included in these materials are for illustrative purposes only. The Bloomberg Broadway services ("Services") are made available by Broadway Technology, LLC ("Broadway"), a Bloomberg company. Broadway's parent company, Bloomberg L.P. ("BLP") provides Broadway with global marketing and operational support. Broadway and its affiliates do not guarantee the accuracy of prices or other information in the Services. Nothing in the Services shall constitute or be construed as an offering of financial instruments by Broadway or its affiliates, or as investment advice or recommendations by Broadway or its affiliates of an investment strategy or whether or not to "buy", "sell" or "hold" an investment. Information available via Broadway's Services should not be considered as information sufficient upon which to base an investment decision. The following are trademarks and service marks of Bloomberg Finance L.P., a Delaware limited partnership, or its subsidiaries: BROADWAY, BROADWAY TECHNOLOGY, TOC and GREYSPAN. All rights reserved. © 2024 Bloomberg.

This is Bloomberg  
for the sell side.

[bloomberg.com/sellside](https://bloomberg.com/sellside)

**Beijing**  
+86 10 6649 7500  
**Dubai**  
+971 4 364 1000  
**Frankfurt**  
+49 69 9204 1210

**Hong Kong**  
+852 2977 6000  
**London**  
+44 20 7330 7500  
**Mumbai**  
+91 22 6120 3600

**New York**  
+1 212 318 2000  
**San Francisco**  
+1 415 912 2960  
**São Paulo**  
+55 11 2395 9000

**Singapore**  
+65 6212 1000  
**Sydney**  
+61 2 9777 8600  
**Tokyo**  
+81 3 4565 8900