



thinkFolio

The multi-asset investment
management platform



thinkFolio is a multi-asset investment management platform, which mitigates risk, increases operational efficiency and supports decision-making by investment managers.

Firms can implement thinkFolio as an integrated platform or deploy it tactically to support various workflows, including:

- portfolio management and analytics
- trading and order management
- cash management and FX
- pre-trade and post-trade compliance
- IBOR

Client types

- Asset managers
- Family offices
- Hedge funds
- Insurance companies
- Pension funds
- Private banks
- Sovereign wealth funds

Asset classes

- Bonds
- Cash
- Deposits
- Equities
- ETFs
- Foreign exchange
- Funds
- Futures
- Loans
- Money markets
- Options
- Swaps

Key stats:



3000+
users globally



\$2 trillion+
combined AUM of clients

Key benefits



Operational efficiency

- Streamlines investment operations, cutting both complexity and cost



Risk mitigation

- Reduces exposure to unsupported or unintegrated third-party and internal applications
- User rights management enables workflows to be enforced



Connectivity

- Flexible integration across data vendors, execution management tools, and middle- and back-office systems



Regulatory interfaces

- Provides out-of-the-box interfaces to support MIFID II trade reporting requirements, UCITS and in-house regulations



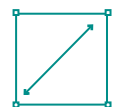
Flexibility

- Empowers fund managers and traders with the ability to model orders and make investment decisions



Reduced technical footprint

- Creates a single platform for portfolio management, trading, cash management and compliance



Scalability

- Managed service deployment allows firms to scale up (or down) their use of the cloud as their needs evolve



Access to IHS Markit solutions

- Integration with a range of other IHS Markit products and services, including EDM and WSO

thinkFolio for portfolio management and analytics

Flexibility

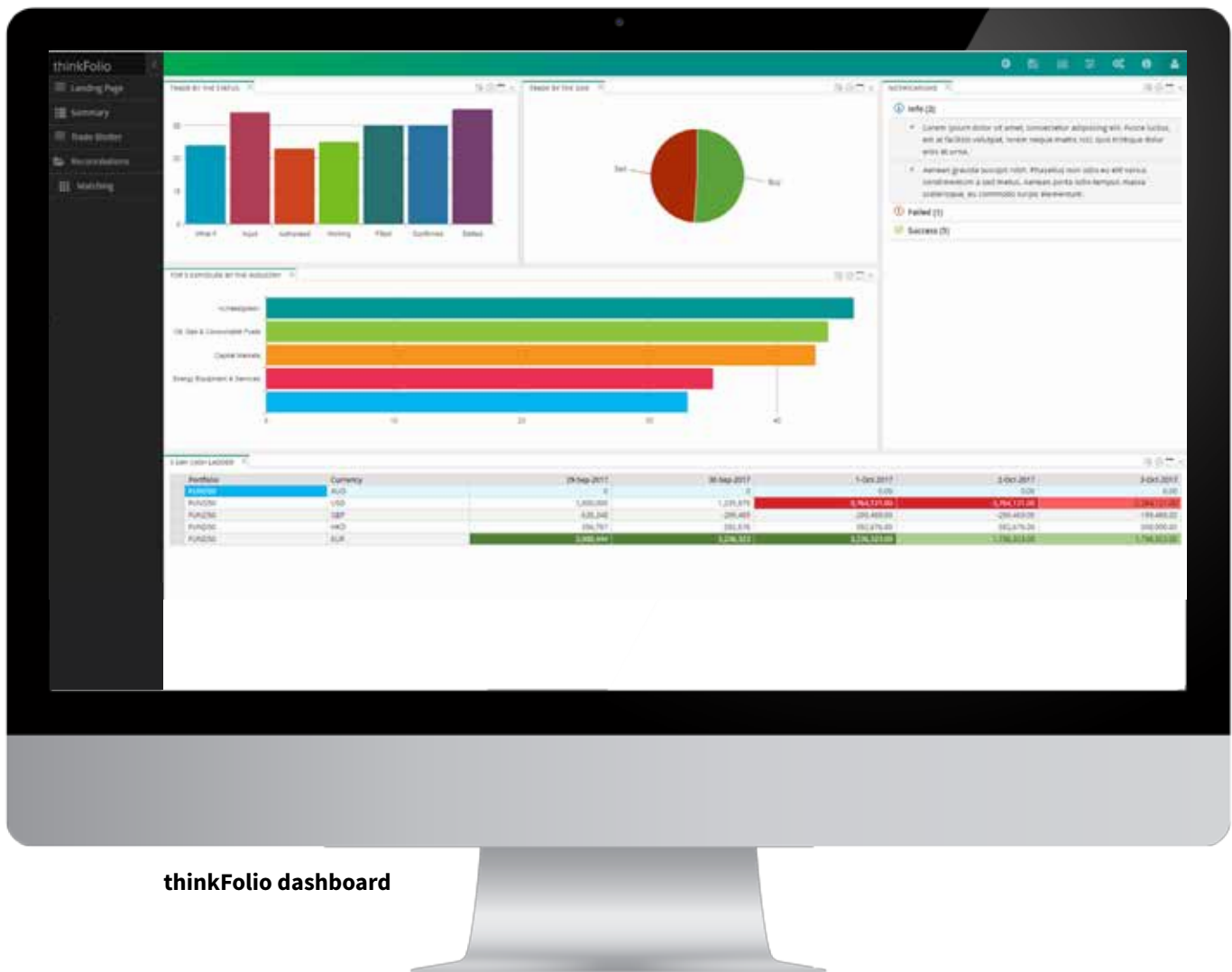
- Portfolio management views can be configured to support your investment management process
- Analytics can be set up to align with your view of a security and its underlying cash flows

Ease of use

- Views can be sliced and diced on the fly without the need for specialist IT support
- Tools have been designed for different areas of the portfolio management process

Ability to manage complexity

- The system is designed to allow the monitoring and implementation of investment ideas across multiple sets of portfolios in order to provide scale
- A broad product range for managing the complexity of instrument coverage



thinkFolio for cash management and FX

Visibility of cash

- Granular view of cash, including cash flow representation that is accurate and easy to manage
- Cash flows form the foundational level of the system and are the basis for the analytics it creates

Integrated tools

- Cash ladders and FX functionality link directly to specific functionality for generating cash movements and trades
- Roll calculators, hedging tools and other functionality to make operational cash and FX tasks easy to perform and quick to implement

Integration with compliance

- Cash and FX tools are directly linked to the compliance functionality and can monitor balances over multiple settlement days in different accounts
- Cash management calculators take into account room in compliance rules

Cash ladder

The cash ladder provides a settlement-dated view of cash. It amalgamates cash data, including both loaded cash and cash which is being affected inflight by thinkFolio. It can take into account trades in different statuses and more/less conservative views of cash depending on the trade state.

thinkFolio for trading and order management

Multi-asset coverage

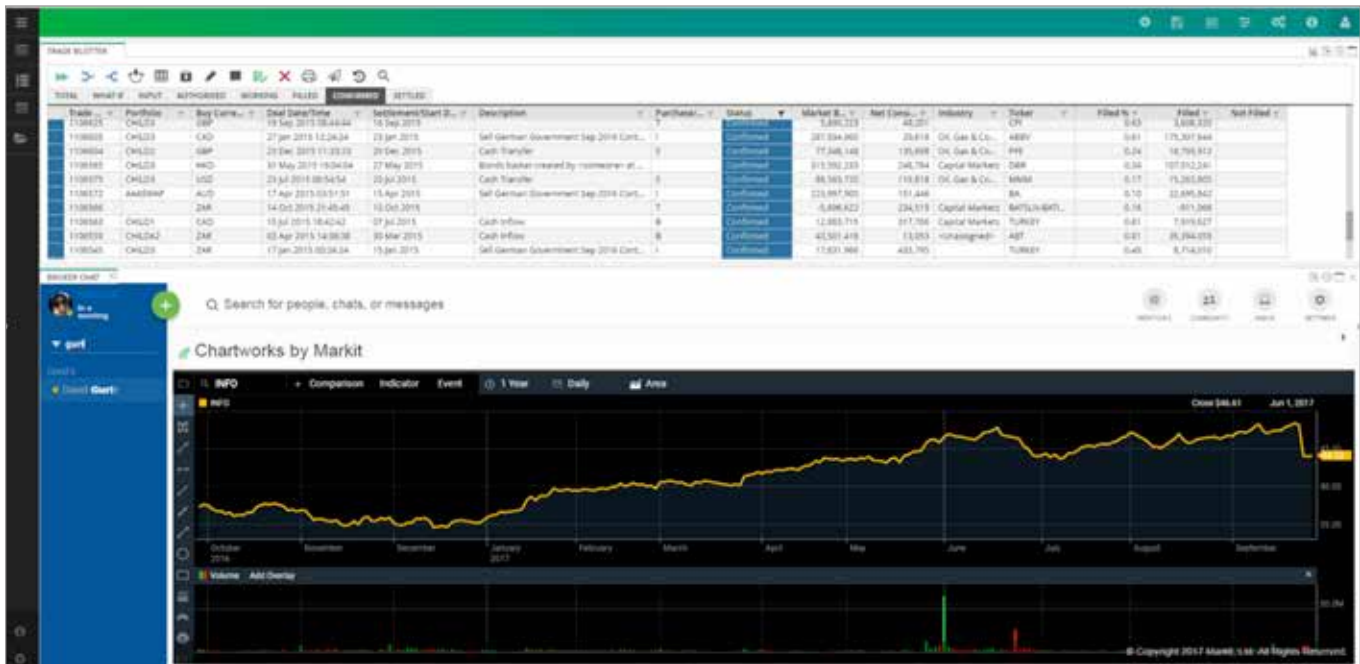
- Order management workflows supported across all asset types, with the flexibility to configure blotters and workflows
- Workflow rules supporting straight-through processing and improved trader efficiency

Broad connectivity

- Flexible integration with EMS providers, platforms and venues
- Direct connections to brokers
- Connection to confirmation affirmation platforms (e.g. OMGEO CTM/ GTSS)
- Standard exports for TCA providers, including IHS Markit and others

MIFID II compliant

- Supports MIFID II requirements with direct access to APA via FIX for trade reporting
- Standard extracts for transaction reporting



Real-time trade blotter



thinkFolio as OMS for execution

The most common deployment of thinkFolio for dealing is as an OMS for execution. All OMS activity takes place within thinkFolio. Execution activity may take place on an external system, with fill information and messages relayed to thinkFolio (typically via FIX) to keep the state of the trade updated. Once the trade has been completed, thinkFolio initiates the message to the back office.

thinkFolio for compliance

Templates

- An extensive library of rules allows firms to quickly implement regulatory, firm and mandate requirements
- Rules range from simple percentage to based-on analytics, benchmark comparisons, 5/10/40 rules, cash rules and many more

Ease of use

- Rules can be easily written by compliance users, leveraging drop-down menus that are populated with relevant options rather than coding

Breach reporting

- Clear reports on rule breaches and easy-to-use breach-tagging and resolution
- Option of automatic reasoning codes and re-opens to enhance STP for larger firms
- Easy process for identifying and signing off trades that have breached rules





thinkFolio for IBOR

Trade processing

- Trade capture
- Trade matching/confirmation

Multi-asset-class valuation – ex exotic options

- Fixed income, equities, money markets, derivatives

Cash management

- Forex hedging
- Active cash flow management
- Cash ladder
- Provisional cash: known corporate events

Position keeping

- As of/as on: single position view
- Intra-day positions
- Historical positions: actual and amended
- Forecasted positions
- Transaction lifecycle
- Block single strategy aware
- Multiple strategies at allocation level

Mandates accounting

- P&L and cost calculation: average cost and mark-to-market valuation

NAV validation

- NAV oversight

Data management

- Real-time data import/export

IHS Markit integration

thinkFolio is integrated with all major third-party execution providers, as well as other IHS Markit products and services including:

- **EDM:** a data management platform that pulls disparate data from multiple sources into a central hub
- **WSO:** an integrated set of loan portfolio software and services for tracking performance and managing portfolios
- **TCA:** a global analysis platform that combines execution, algorithmic, venue and smart order router evaluation analytics
- **Loan Reference Data:** current terms and conditions as well as corporate actions data for public and private bank loans
- **Bond Reference Data:** deep terms and conditions data and new issue information
- **OTC Derivatives Data:** an independent, flexible service providing access to multi-sourced curve and volatility data for OTC interest rates
- **CDS Curve Data:** live, snapped and end-of-day price updates for CDS entities and all the major credit indices, CDX and iTraxx
- **Portfolio Valuations (vanilla options):** an industry-validated, fully hosted service that provides independent valuations and risk measures
- **MarkitSERV (interest rate swaps):** end-to-end trade processing and workflow solutions that support participants in OTC trading



Managed service

In addition to on-site installation, firms can leverage thinkFolio as a managed service, which delivers the following benefits:

Cost containment

- Mitigate the cost, time and effort required for upgrades
- Reduce the fixed expenditure associated with hardware, applications and their management
- Free up resources to focus on revenue-generating activities

Flexibility and scalability

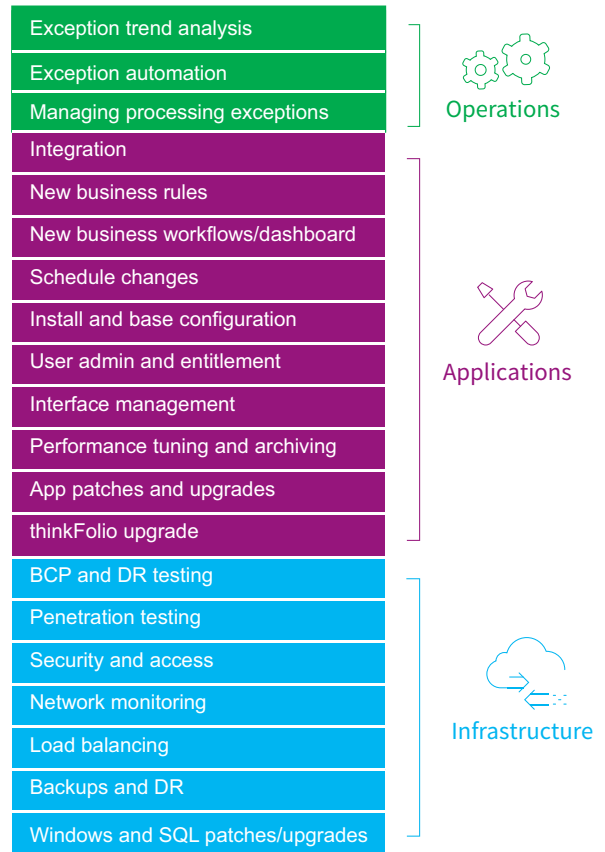
- Scale up (or down) your use of the cloud as your needs evolve
- Leverage off-site teams to introduce changes as required by the business

Short time to market

- Use a pre-built cloud environment to eliminate many of the time-consuming steps involved in a traditional deployment and achieve a greatly reduced time to market

Global staffing and support

- Access a global support team 24 X 7 X 365 and strong security, backup and disaster recovery functionality provided by both IHS Markit and AWS



About IHS Markit

IHS Markit (Nasdaq: INFO) is a world leader in critical information, analytics and solutions for the major industries and markets that drive economies worldwide. The company delivers next-generation information, analytics and solutions to customers in business, finance and government, improving their operational efficiency and providing deep insights that lead to well-informed, confident decisions. IHS Markit has more than 50,000 key business and government customers, including 85 percent of the Fortune Global 500 and the world's leading financial institutions. Headquartered in London, IHS Markit is committed to sustainable, profitable growth.

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