THOMSON REUTERS TOPOFFICE

AGGREGATE AND MANAGE RISK AND P&L ACROSS ALL TRADING STRATEGIES

THOMSON REUTERS RECENT MARKET RECOGNITION

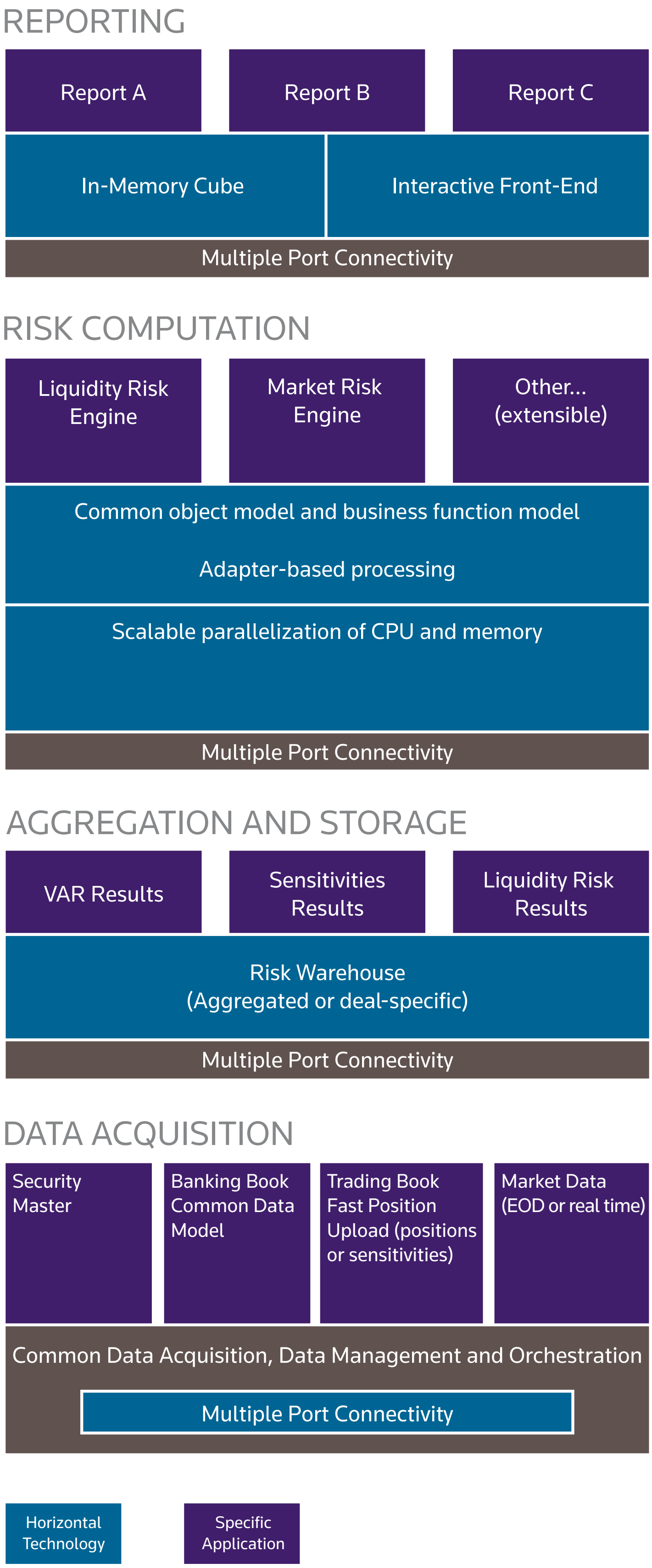
Risk TECHNOLOGY RANKINGS 2010 — NUMBER ONE RISK TECHNOLOGY PROVIDER 2009 & 2010

FX Week Best Banks Awards 2010 Winner — BEST VENDOR FOR DEALING TECHNOLOGY

AsiaRisk TECHNOLOGY RANKINGS 2010 — NUMBER ONE RISK TECHNOLOGY PROVIDER 2008, 2009 & 2010

Risk Awards — BEST TRADING SYSTEM VENDOR

THOMSON REUTERS™



THOMSON REUTERS TOPOFFICE IS A MARKET-PROVEN, HOLISTIC RISK MANAGEMENT FRAMEWORK FOR THE REAL-TIME AGGREGATION AND MANAGEMENT OF RISK EXPOSURES AND P&L ACROSS TRADING OPERATIONS.

THOMSON REUTERS TOPOFFICE

Thomson Reuters TopOffice provides the risk management framework that will enable firms to make sound business judgements. It's a market proven solution for real-time aggregation and management of risk exposures and P&L across trading operations.

TopOffice enables heads of risk management, trading and investments to measure, analyze, and model risk exposures, and calculate and explain profits and losses in a single integrated platform. It delivers unparalleled reporting flexibility enabling decision makers to gain valuable insight into the drivers of risk and profits.

TopOffice is built on a scalable architecture with a powerful data integration engine, so it can connect quickly and economically to the firm's existing data sources including front offices, legacy systems, models, feeds, and risk engines.

THE STORY SO FAR

In recent years, risk mitigation has taken centre stage at financial institutions and the call for more stringent risk management has become the focus of bank's strategies. There is currently an increased urgency with which trading operations within banks are scrutinizing their risk management frameworks. This includes the ability to report risk in real-time and compare these to the regulatory and financial statements on a consolidated basis.

The status quo – where trading happens in real time while the middle and back offices act on a 'batch' basis – is no longer viable.

With investments across multiple asset classes exposed to unforeseen market changes, the aggregation of risk exposures across trading operations continues to pose significant challenges for banks. Addressing the challenge requires:

- aggregating the data from disparate front office and back office systems, data sources and risk engines
- significant systems development to ensure like-for-like aggregations are achieved across different trading platforms and front-office systems
- accessible and explicitly quantifiable netting arrangements and covenants that determine what happens to an instrument in stress conditions

A new approach is needed – Thomson Reuters enables trading operations to meet these challenges cost effectively.

THOMSON REUTERS APPROACH

- **re-using the front-office calculations** – and providing incremental real-time updates to the resulting information
- **transforming data from multiple sources and routing it to configurable destinations** – it's very different to a 'data warehouse' approach, which is affected by the underlying source of the data
- **risk computations that use flexible business logic** – to achieve cross-asset risk coverage
- **flexible data storage** – to determine which items to store in pre-aggregated form and also to allow fast access to the underlying information
- **flexible reporting** – that allows for 'what if' modeling and intra-day reporting as demanded by CIO's, CRO's and investors

Only this flexible approach will provide the real-time view of cross-asset risk exposures and P&L demanded by heads of business.

THOMSON REUTERS TOPOFFICE SOLUTION

- **real-time risk and P&L aggregation** – a single enterprise-wide view of a trading operation's exposures across multiple front offices and data sources
- **rapid Integration of any internal and 3rd party analytics and pricing** – consistent and universal risk measurement, comparison and pricing; fully open for integration of any pricing libraries in the matter of days
- **execution of trading decisions and hedging strategies** – highly flexible real-time reporting and drill-down capabilities give better insight into drivers of risk and P&L across trading strategies
- **daily assessment of Liquidity/Funding needs** – accurately identify Refinancing Risk and Liquidity Gaps
- **support for rapid product innovation** – cross-asset technology supports GUI driven definition of new products, including complex structures and hybrids
- **rapid deployment and integration into your IT architecture**
- **powered by Thomson Reuters**

PRODUCE REPORTS AND RUN ANALYSIS THE WAY YOU WANT

Thomson Reuters TopOffice delivers interactive risk reporting across all portfolios, trading operations, subsidiaries and geographies at the press of a button.

TopOffice extracts data from multiple data sources and systems and combines the results into an 'in-memory cube' to for aggregation purposes.

It generates dashboard-like reports to achieve fast and meaningful insights into the reporting results with unprecedented speed and adaptability.

Sample risk dashboards include:

- Risk/P&L Analysis
- VaR Report
- Risk Summary Report
- Risk Decomposition
- Risk Exposure
- Scenario Analysis/Stress Testing

To enhance trading decisions and hedging strategies, portfolio results can be analyzed at user-defined levels of granularity.

This includes the ability to slice and dice, filter or sort results. As well, users can drill-down and drill-through results using any measure or trade attribute, time series, cash flow projections, time ladders or any bucketing/term structure.

Key Benefits:

- Ability to automate creation and delivery of reports
- Analyze portfolio results in multiple ways: slicing, dicing, filtering, sorting, drill-down and drill-through
- Create flexible reporting & choose level of granularity
- Design custom reports with simple drag-and-drop
- Define reporting views: PV, VaR, risk exposures, P&L

MANAGE A FULL RANGE OF ASSET TYPES AND ADD NEW PRODUCTS QUICKLY

With Thomson Reuters TopOffice's cross-asset capability you can manage credit derivatives, equity derivatives, fixed-income, interest rate derivatives, and FX/FX derivatives easily. In addition you can respond to demands for new assets with a framework that allows for the quick implementation of new exotic or hybrid structures. There is no need to redesign the existing assets or the structures that support them.

Asset class coverage:

- Equity, equity options, CFDs, equity OTC options, index OTC options; equity index options, equity index futures, equity index futures options, equity swaps
- Government bonds, bond futures, bond futures options, corporate bonds, convertibles, bond
- OTC options
- IR futures, IR futures options, IR swaps, repos, LnD, caps and floors, swaptions
- FX spots, FX forwards, FX swaps, FX OTC options (plain vanilla & exotic), FRAs
- CDS (single-name and index)
- Futures, futures options on commodities

MANAGE CONSOLIDATED RISK, INSTANTANEOUSLY

With a common platform offering real-time portfolio updates and intraday risk calculations, Thomson Reuters TopOffice offers immediate risk management, wherever a trade is executed.

TopOffice delivers robust analytics to estimate risk across multiple strategies using an implicit factor model:

- **Monte Carlo simulation:** view myriad of potential future portfolio values, determine VaR, assess the probability that you underperform by a given percentage
- **flexible risk attribution:** calculate exposures to different user-defined risk factors, market indicators, time series and interest rates
- **stress testing and scenario analysis:** perturb key risk factors and view the affect of that shock on the portfolio value. Supports historical and user-defined scenarios

RECENT MARKET RECOGNITION

Risk TECHNOLOGY RANKINGS 2010

NUMBER ONE RISK TECHNOLOGY PROVIDER 2009 & 2010
RISK TECHNOLOGY RANKINGS 2010

Number One Overall Technology Vendor

Number One Trading Systems – Cross Asset

Number One Trading Systems – FX

Number One Pricing and Analytics – Inflation

Number One IAS Compliance

Number One Pricing and Analytics – FX

Number One Pricing and Analytics – Rates

Number One Risk Aggregation – Market, Credit, Counterparty, Liquidity, Operational

AsiaRisk TECHNOLOGY RANKINGS 2010

NUMBER ONE RISK TECHNOLOGY PROVIDER 2008, 2009 & 2010
ASIA TECHNOLOGY SURVEY 2010

Number One Overall Technology Vendor

Number One Support Services – Implementation efficiency

Number One Trading Systems Front-to-Back Office – Foreign Exchange

Number One Trading Systems Front-to-Back Office – Interest Rates

Number One Risk Management – Back Office

Number One Risk Management – Credit Risk Management

Number One Trading Systems Front-to-Back Office – Hybrids/Cross-asset class

Number One Derivatives Pricing and Risk Analytics – Interest Rates

Number One Derivatives Pricing and Risk Analytics – Hybrid/Cross-asset class

Number One Derivatives Pricing and Risk Analytics – Credit

FX Week Best Banks Awards 2010 Winner

BEST VENDOR FOR DEALING TECHNOLOGY
FX WEEK BEST BANKS AWARDS 2010

Risk 20 winner

BEST TRADING SYSTEM VENDOR RISK MAGAZINE
RISK 20 AWARDS

ABOUT THOMSON REUTERS RISK MANAGEMENT

Thomson Reuters is the largest provider of Trade and Risk Management solutions, serving over 750 financial institutions globally. Our solutions offer sophisticated, tailored functionality at every step of the trade, from STP-enabled front-to-back trading systems to enterprise-wide risk management, allowing our customers to manage market, credit, and operational risks efficiently. And we have the global strength that is required of a long-term strategic partner, with over 950 risk professionals in 83 countries.

To learn more contact your Thomson Reuters local risk office or **visit financial.thomsonreuters.com/risk**

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