

## Charles River's MiFID II Solution

# Enhanced Trading and Best Execution Reporting Capabilities

Charles River helps clients capture the additional data and trade lifecycle decision points needed to comply with new transparency, best execution and transaction reporting requirements under the European Union's Markets in Financial Instruments Directive II (MiFID II). The Charles River Investment Management Solution (Charles River IMS) provides flexible investment management processes and execution analysis options to help ensure support for future MiFID II updates and new global regulations.

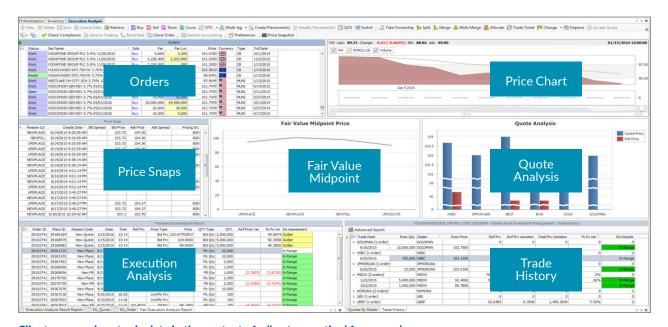
### **Best Execution Benefits**

- Track execution quality factors and decisions throughout the order lifecycle
- Demonstrate adherence to best execution standards
- Simplify audits when a given trade is in question

## **Best Execution**

As an end-to-end solution, Charles River IMS can track factors and decisions throughout the lifecycle of an order that impact execution quality. The solution helps demonstrate adherence to best execution standards defined in the regulation and simplifies the audit process for questionable trades.

- Measure execution quality using TCA for equities or execution analysis for fixed income to measure benchmark variance and identify outliers
- · Review detailed order level execution analysis embedded in Charles River IMS or through reports
- Track key decision points along the order lifecycle, including the portfolio manager's priority, trader's execution strategy, and reasons for placing or cancelling an order with a given broker
- · Audit the full history of an order using historical data
- Track top 5 venues reporting the instrument class, whether executions were passive or aggressive and other report elements



Clients can analyze trade data in the context of a 'best execution' framework.

## **Transaction Reporting**

Charles River's complete coverage of the trade lifecycle offers clients a natural point for transaction reporting. New data models, interfaces and workflows help clients capture, track and report on key data required under MiFID II.

- Capture data points necessary for reporting key requirements, including investment and execution decision makers, fund owner, and security specific details
- Distinguish between automated processes and individuals responsible for investment and execution decisions
- Create rules to automate investment decision maker assignments based on flexible criteria associated with the fund, instrument, or other details tailored by the client
- Track regulatory details including jurisdiction and relevant IDs for a variety of entities such as branches offices, reporting vendors, traders, PMs, automated processes, and brokers
- Submit transaction reports to the regulators through reporting entities (ARM)

## Transaction Reporting Benefits

- Capture, track and report on key data required under MiFID II
- Track regulatory details, including jurisdiction and relevant IDs
- Submit reports to regulators through ARM vendors

# Charles River helps clients report trades based on key broker and liquidity information.

## **Trade Reporting**

Charles River IMS helps clients submit real-time reports for trades not covered by the trading venue or sell-side counterpart.

- Send trade capture reports to the Approved Publication Arrangement (APA) vendors detailing an execution
- Filter the trades that need to be reported based on
  - Whether the counterparty is a systematic internalizer for the security
  - The security is liquid
  - The size of the trade is greater than the liquidity thresholds

## **Trade Reporting Benefits**

- Submit real-time reports for trades not covered by the trading venue or sell-side counterparty
- Filter trades that need to be reported on, based on a variety of factors



The trade reporting workspace helps determine/report on key broker/liquidity information.

## **Trade Workflow**

Charles River IMS provide traders with key information to help guide the trade process related to their reporting obligations.

- · View systematic internalizers associated with an order
- · View the ESMA liquidity indicator for the security
- View Large in Scale (LIS) and Size Specific to the Financial Instrument (SSTI) thresholds for the security and whether the order is eligible for reporting waivers

### **Trade Workflow Benefits**

- Provide traders with key information to guide processes related reporting obligations
- View systematic internalizers and ESMA liquidity indicators
- Determine eligibility for reporting waivers by scale and size thresholds

## **OTC** Derivatives

Charles River IMS helps clients submit real-time reports for trades not coverenterpart. Charles River IMS supports all OTC asset classes, across cleared and bilateral orders. Regulatory indicators identify when orders might be subject to MiFID II workflow and reporting requirements, and enrich the order data for regulatory reporting needs.

- Designed to ensure legal agreements are in place between fund and broker
- View jurisdictions for each allocated fund and split orders by allocation based on jurisdiction to enable each fund to follow its respective requirements
- Set liquidity thresholds (LIS, SSTI) based on security characteristics
- · Track MTF eligibility to identify if a given order can be, or must be, sent to a Multilateral Trading Facility (MTF)
- · Identify notional increases and decreases for transaction reporting
- · Integrate electronically with MTFs
- · Create clearing defaults for clearing houses and clearing brokers based on fund, product, and other determinants

#### **OTC Derivatives Benefits**

- Identify when a fund is within the ESMA jurisdiction
- Split an order by allocation based on fund jurisdictions
- Determine which orders to send to an MTF vs SEF

Approved Brokers						
Accept Quote			Accept	Accept	Accept	Accept
Broker			CRDBROKER	TSTBKR00001	TSTBKR00002	TSTBKR00003
Available Notional			5,000,000	3,000,000	2,000,000	0
Quote Notional			5,000,000	3,000,000	2,000,000	
Price			98.75	98.50	98.25	
Upfront %			1.25	1.5	1.75	
Spread						
CDS Principal			(62,500)	(45,000)	(35,000)	
Account /	Jurisdiction	Target Notional	CRDBROKER	TSTBKR00001	TSTBKR00002	TSTBKR00003
032	ESMA	2,000,000	2,000,000	N/A	2,000,000	N/A
033	CFTC	3,000,000	3,000,000	3,000,000	N/A	<u>A</u> .
Totals			5,000,000	3,000,000	2,000,000	

Charles River IMS features an Approved Broker view with account-level regulatory jurisdiction.



A State Street Company

## **ABOUT CHARLES RIVER**

Charles River Development, a State Street Company, enables sound and efficient investing across all asset classes. Investment firms in more than 40 countries use Charles River IMS to manage more than US\$25 Trillion in assets in the institutional investment, wealth management and hedge fund industries. Our Software as a Service-based solution (SaaS) is designed to automate and simplify investment management on a single platform – from portfolio management and risk analytics through trading and post-trade settlement, with integrated compliance and managed data throughout. Headquartered in Burlington, Massachusetts, we support clients globally with more than 750 employees in 11 regional offices.

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