

# Interfaces & Partners



A State Street  
Company

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July 2019

## Analytics

FINCAD

OTAS

The Yield Book Inc.

## Data

Bloomberg B-Pipe  
Bloomberg Data License  
Bloomberg Desktop API  
Bloomberg Server API

Charles River Data Service – Reference  
Charles River Data Service – Real-Time  
Charles River Data Service – Benchmarks

## Equity Algo Trading

Abel/Noser  
Aqua Securities, L.P  
Auerbach Grayson  
Barclay's Capital  
BestEx  
BMO Capital Markets Corp  
BMO Nesbitt Burns  
BNP Paribas  
BTIG, LLC  
Canaccord Capital  
Cantor Fitzgerald & Co.  
China International Capital Corporation Hong Kong  
Securities Limited  
CIBC World Markets  
CIMB Securities (Singapore) Pte Ltd  
Citadel Securities  
Citigroup  
Clearpool, Group  
CLSA Limited  
Commonwealth Securities, Ltd  
ConvergEx Execution Solutions  
Cowen & Company, LLC.  
Credit Suisse  
Daiwa Capital Securities Markets Co. Ltd  
Dash Financial

Deutsche Bank  
DnB NOR Bank ASA  
Drexel  
DZ Bank  
Exane  
Execution Ltd  
Fidelity Capital Markets  
FOX River Execution  
Goldman Sachs  
Guggenheim Securities LLC  
Haitong International Information Systems Limited  
HSBC  
Instinet  
ISI Group  
ITG Inc.  
Jefferies & Company  
JP Morgan  
Keybank  
Kepler Cheuvreux  
Knight Securities  
Leerink Swann & Co.  
Lek Securities Corporation  
Liquidnet  
Macquarie Securities  
Maybank KimEng Securities Pte Ltd

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Bank of America Merrill Lynch  
Mizuho Securities  
MKM Holdings  
MND Partners Inc.  
Morgan Stanley  
Morgans Financial  
National Bank Financial Inc.  
Nomura Securities  
Piper Jaffray  
Potamus Trading LLC  
Raymond James  
Royal Bank of Canada  
Royal Bank of Scotland

Redburn Partners LLP  
R.W. Baird  
Sanford Bernstein  
SMBC Nikko Securities  
Societe Generale  
Stifel Nicolaus  
The Bank of Nova Scotia  
UBS  
Virtu Financial Capital Markets LLC  
Wall Street Access  
Wallach Beth  
Weeden & Co, Inc.  
Wells Fargo

## Equity Crossing Networks

### Direct Integration:

AQUA ATS  
BIDS Trading  
BlockCross

ITG Posit  
Liquidnet  
Luminex

### Integration via Broker Algorithms:

Citibank Liquifi, CitiMatch (Citigroup)  
Cross Finder, CrossFinder+ (Credit Suisse)  
Instinet Chi-X (Instinet)  
MS Pool (Morgan Stanley)

PIN (UBS)  
Turquoise  
SigmaX (Goldman Sachs)

## Foreign Exchange Trading

### FX Algo

BNP Paribas  
Credit Suisse

JP Morgan

### Multi-Bank Portals

360T  
FX All

FX Connect

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## Direct Bank Execution

Barclays PLC  
Citigroup  
Credit Suisse  
Deutsche Bank

Goldman Sachs  
Morgan Stanley  
Skandinaviska Enskilda Banken  
UBS

## Derivatives Trading

### Derivatives Algorithms - Futures

Barclays Capital Inc.  
Bank of America Merrill Lynch  
Credit Suisse  
Goldman Sachs  
JP Morgan Securities

Morgan Stanley  
Quantitative Brokers  
Societe Generale  
UBS

### Derivatives Algorithms – Options

Bank of America Merrill Lynch  
Citigroup  
Credit Suisse  
DZ Bank

Goldman Sachs  
MKM Partners  
Morgan Stanley  
Susquehanna Financial Group LLLP

## Futures – Direct Execution

Agora Corretora de Titulos e Valores  
Banca IMI S.p.A  
Bank of America Merrill Lynch  
Barclays Capital Inc.  
Bayerische Hypo- und Vereinsbank AG  
Bell Potter Securities, Ltd.  
BGC Financial, L.P.  
Bloomberg Tradebook LLC  
BMO Capital Markets Corp  
BNP Paribas Arbitrage SNC  
CACEIS BANK FRANCE  
CITIC Securities International Co. Ltd.  
Citigroup Global Markets, Inc.  
Coex Partners LLP  
Credit Suisse Securities (USA) LLC  
Danske Bank  
Deutsche Bank AG  
ED&F Man Capital Markets Limited  
Edelweiss Securities Limited

Exane SA  
Goldman Sachs  
GFI Brokers Limited  
HSBC Securities Inc.  
ICAP Corporates LLC  
INTL FCStone Financial Inc.  
Itau BBA USA Securities, Inc.  
RFQ-hub  
JP Morgan Securities  
Macquarie Capital Securities Ltd  
Marex Financial Limited ("Marex Spectron")  
Mediobanca -Banca di Credito Finanziario SPA  
Morgan Stanley & Co. LLC  
Newedge Group S.A.  
Nomura International PLC  
Nordea Bank AB  
RBC Capital Markets, LLC  
The Royal Bank of Scotland plc  
Skandinaviska Enskilda Banken

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Societe Generale  
Spectron Services Ltd.  
Svenska Handelsbanken AB  
The Royal Bank of Scotland plc

Tullett Prebon Financial Services, LLC  
UBS Securities LLC  
Wells Fargo Securities, LLC  
Wedbush Securities Inc.

## Options – Direct Execution

Bank of America Merrill Lynch  
Barclays Capital Inc.  
Bay Crest Partners, LLC  
Bayerische Hypo- und Vereinsbank AG  
BGC Financial, L.P.  
Bloomberg Tradebook LLC  
BMO Capital Markets Corp  
BMO Nesbitt Burns  
BNP Paribas Securities Corp.  
BTIG, LLC  
Cantor Fitzgerald & Co.  
Capital Institutional Svcs  
Churchill Capital Ltd  
CIBC World Markets Corp  
Citigroup Global Markets, Inc.  
Cowen & Company, LLC.  
Credit Suisse Securities (USA) LLC  
Deutsche Bank AG  
Goldman Sachs  
Goldman Sachs Australia Svcs Pty Ltd  
Hapoalim Securities USA, Inc.  
HSBC Securities (USA) Inc.  
Instinet  
Interactive Brokers LLC  
ITG, Inc.  
Itau BBA USA Securities, Inc  
Jefferies & Company  
Jones Trading Institutional Svcs LLC  
JP Morgan Securities

Knight Trading  
Leerink Swann & Company  
Macquarie Capital Securities Ltd  
Macro Risk Advisors LLC  
Mediobanca -Banca di Credito Finanziario SPA  
Merrill Lynch, Pierce, Fenner & Smith Inc.  
MKM Partners  
Morgan Stanley & Co. LLC  
National Bank Financial Inc.  
Newedge Group S.A.  
Nomura International PLC  
Nomura Securities International, Inc.  
Nordea Bank AB  
Oppenheimer & Co. Inc.  
OTR Global Trading LLC  
Patersons Securities Limited  
Raymond James  
RBC, The Royal Bank of Canada  
Sanford C. Bernstein & Co., LLC  
Sea Port Group Securities  
Societe Generale  
Stifel Financial Corp.  
Susquehanna Financial Group LLLP  
TD Securities Inc.  
The Royal Bank of Scotland plc  
UBS Securities LLC  
Wells Fargo Securities  
Wolverine Execution Services

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## Fixed Income Trading

### Crossing

Market Axess

MTS - BondVision

Tradeweb

YieldBroker

### MultiDealer Platforms

Bloomberg

Market Axess

Tradeweb

## MiFID II

### Approved Reporting Mechanism (ARM)

TRAX

UnaVista

### Approved Publication Arrangement (APA)

TradeEcho

TRAX

## Post-Trade FIX Allocation Brokers

ABG Sundal Collier

ABN AMRO Bank N.V.

Auerbach Grayson

Banca Generali SpA

Bank of America Merrill Lynch

Barclays Capital Inc.

Bayerische Hypo- und Vereinsbank AG

BMO Capital Markets Corp

BNP Paribas Securities (Asia) Limited

Canaccord Adams, Inc.

Canaccord Financial Ltd.

Cantor Fitzgerald & Company

CGS - CIMB Securities (Singapore) Pte Ltd

Charles Schwab & Company

Citigroup Global Markets, Inc.

CLSA Limited

Cowen & Company, LLC.

Credit Suisse Securities (USA) LLC

Daiwa Securities Co. Ltd.

Deutsche Bank AG

Exane SA

Fidelity Capital Markets

Goldman Sachs

HSBC Securities (USA) Inc.

Ichiyoshi Securities Co Ltd

ING Group

Instinet Group, LLC

Investec Bank (UK), Ltd.

ISI Group

ITG, Inc.

Jefferies International Limited

Jefferies & Company

Jones Trading Institutional Svcs LLC

JP Morgan Securities

Keefe, Bruyette & Woods, Inc.

Liquidnet Inc

Loop Capital

Macquarie Capital Securities Ltd

Mizuho Securities

Morgan Stanley & Co. LLC

Nomura International PLC

Nomura Securities International, Inc.

Okasan Securities Co., Ltd.

Oppenheimer & Co. Inc.

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Pavilion Global Markets Ltd  
Penserra Securities LLC  
Pershing LLC  
Peters and Co.  
Pictet Overseas Inc  
Piper Jaffray & Co (US)  
Pollitt & Co  
Raymond James Ltd  
RBC, The Royal Bank of Canada  
Robert W Baird & Co.  
Sanford C. Bernstein & Co., LLC  
SBI SECURITIES Co., Ltd.  
SMBC Nikko Securities Inc.

Societe Generale  
Stifel, Nicolaus & Company, Inc.  
Strategas Securities LLC  
TD Ameritrade  
TD Securities Inc.  
Tokai Tokyo Securities Japan  
UBS Securities LLC  
Weeden & Co. LP  
Wells Fargo Securities, LLC  
William Blair & Company

## Post-Trade Systems

Charles River supplies standard file formats (flat files or XML) as well as a library of exports formats and these additional interfaces:

DTCC Deriv/SERV  
FICC/Fixed Income Clearing Corporation (MBS Electronic Pool Notification)

FIX 4.2/4.4 allocations (TradeWeb, MarketAxess, FX venues, equity brokers)  
ISO 15022  
MarkitSERV

## Prime Brokers

Goldman Sachs  
Morgan Stanley

UBS

## Transaction Cost Analysis

Barclays  
ITG  
IHS Markit

Morgan Stanley Analytics  
Trade Informatics  
UBS





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## Value Based Trading

### Calastone Transaction Services – 34 countries

#### Transfer Agents (Fund Providers)

DST (55)

Northern Trust (52)

Capita (46)

RBC (37)

State Street (34)

BNY Mellon (32)

HSBC (31)

Self TA (26)

BBH (21)

Maitland (18)

Citibank (15)

DZ Private Bank (15)

BNP Paribas (13)

Fund Partner Solutions (12)

T Bailey (11)

JPM (10)

SEI (8)

European Fund Administration (6)

Maples (4)

Allianz Lux (3)

Valu-Trac (3)

FNZ (3)

Others (19)

## About Charles River

Charles River Development, a State Street Company, helps enable sound and efficient investing across all asset classes. Investment firms in more than 30 countries use Charles River IMS to manage more than US\$25 Trillion in assets as of April 2019 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 925 employees in 11 regional offices.

While the information in this document is presented as planned or projected, Charles River Development reserves the right to change plans, priorities and future enhancements at any time without notice.  
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