QuoteBoard



The Global Pre-Trade Price Discovery Platform

More Efficiency

QuoteBoard is the leading global pre-trade price discovery platform used by 80+ brokers and 130+ banks and trading houses to post and respond to 'Indications of Interest' (IOI) in respect of listed and OTC equity derivatives. Leveraging off over 15+ years of experience in helping clients improve price transparency in the vanilla equities market, QuoteBoard also handles light exotic strategies on single and multiple underlyings, in addition to supporting other asset classes.

QuoteBoard offers a solution that makes the communication, analysis and managing of quotes easier and more accurate. By standardising the format of the input, QuoteBoard improves ease of order entry while allowing the broker to track and modify orders. This results in heightened accuracy and enables the trader to identify trading opportunities in a more informed manner. In addition, QuoteBoard also provides a more archivable, auditable and compliant infrastructure, necessary in today's markets which are subject to increasing regulatory oversight.

QuoteBoard has been designed to facilitate inter-dealer brokerage by providing accurate and intelligent price dissemination for brokers, thus providing an indispensable platform for traders. There are three versions of the QuoteBoard software available depending on the user's requirements:



2. QuoteBoard ICE XL: retrieve data directly from QuoteBoard API into excel via the ICEXL plugin 3. QuoteBoard API: allows users to build their own interface against the QuoteBoard server

QuoteBoard Delivers More

Over 9,600+ underlyings are available on QuoteBoard from a wide variety of global markets, including Asia, Australia, Eastern and Western Europe, India, North and South America, Russia and South Africa. QuoteBoard supports the following products:



Index, ETF, and Single stock vanilla products



BTICs, BICs, Dividend Futures/ Swaps, ETF NAV, MSCI Futures, Total Return, volatility, variance, and GC Funding swaps



Single and multi-underlying strategies

US +1 (770) 738 2101 **/ UK** +44 (0)20 7429 4636

Flexible Functionality

QuoteBoard has been designed to facilitate inter-dealer brokerage and provide intelligent price dissemination for this community, as well as for traders:

✓	Standardizes complex quotes and RFQ's for easy consumption and integration
\checkmark	Request for Quote (RFQ) Function: facility to request quotes on specific underlyings
\checkmark	Open and detach order books
\checkmark	Archiving of chat and event logs
\checkmark	Ability to view prices in Excel in real time
\checkmark	Ability to see historical data
\checkmark	Selective multicast function: enables brokers to create specific groups of clients to disseminate prices to
\checkmark	Internal whiteboard function: allows users within the same firm to view/modify/cancel each other's prices and allows for internal order flow managment
\checkmark	One-to-one instant chat function: users can negotiate indicative prices on-line and in real-time
\checkmark	Flexible order management: including order entry, order cloning and order feed to email, all of which are available via menus connected to each indicative price
\checkmark	Flexible filtering: by region, sector and strategy type
\checkmark	Ability to reload previous days quotes at the click of a button
\checkmark	24 hour customer support: by telephone and email
\checkmark	Sound alerts: for incoming orders message and trades
\checkmark	Time filter to view most recent quotes

QuoteBoard API (Two way)

The QuoteBoard API, developed in response to strong demand for clients, provides an interface between QuoteBoard and other internal systems. Developed in a variety of programming languages, it provides significant benefits and is used by inter-dealer brokers, international banks and market making firms:

\checkmark	Full integration with in-house front end systems
~	Automatic retrieval of QuoteBoard Indications of Interests (IOIs)
✓	Auto pricing of QuoteBoard strategies using in-house proprietary models
\checkmark	Auto calibration of volatility surfaces from implied volatility calculations
\checkmark	Ability to see full Market Depth prices
\checkmark	Auto retrieval of 'published trades' from IDBs
~	Aggregation of QuoteBoard IOIs with other market data sources
\checkmark	Historical data to be transferred into an internal database for further internal use
\checkmark	Ability to respond to quotes as well as initiate RFQs and/or IOIs

Using QuoteBoard

All users can choose to post and/or respond to IOIs on QuoteBoard.

AAPL UW Apple Inc US0378	331005	S 📩 🕲 CALL		⊗ ☆
Legs +/- Symbol Rat Buy AAPL UW	io Leg Type Expiration 9 1	Strike Type X/O Si	tyle Ref/Basis Fut.Ref/B Fut.Ref Date ▼ 0 \$ 0 \$ 0\$ Oct19	Delta Choi
Price Information			Price Routing	
Bid	Offer	Trade	Search Contacts	
Price	Price	Price	Contacts	Bid/Ot
Volume	Volume	Volume	▶ All	
Comments	Comments	Comments	AllBanks	
Price RFQ		Publish Trade (no price/size)	AllMarketMakers	
			Internal	
			IM Contacts	
			 Default (My Company) Default 	
			✓ Default	
			✓ Bid/Offer Same	Groups Mana

Existing Users

Access for brokers and traders from firms already registered to QuoteBoard is simple and quick via the web version.

New Users

New users can request access to QuoteBoard by emailing: sales-icedataservicesquoteboard@theice.com

								QuoteB	oard													_ 0
cher ¹ <u>F</u> ile T <u>o</u> ols	Help Logo	ıt																		10 C	Chat with Help	Send Feed
Structured Market	Watch																					
		0 🔁 🖬 🙏 🤊	* © %																			
us +/- Updated '	 Symbol 	♥ MIC ♥ Strategy ID	♥ Ratio	Expiry	♥ Strike	Ref	F.Re	f F.Ref.Date	VX/C	⊽ Style	⊽ B BUpdated B	B Size	Bid	Theo	Offer	O Size	0 0 Updated 0	FIXIFLT V	Trade Trade Size			
09:34:58	IST	ARCX CALL	+1	Oct19	100	0	0	Oct19	×	A	09:34:58 A	?	?		?	?	A 09:34:58	FIX				
09:34:52	HGD	XTSE CALL	+1	Oct19	100	0	0	Oct19	Х	A	09:34:52 A	?	?		?	?	A 09:34:52	FIX				
09:34:41	RB/	XLIF CALL	+1	Oct19	100	0	0	Oct19	×	A	09:34:41 A	?	?		?	?	A 09:34:41	FIX				
09:34:35	RBC	XNYS CALL	+1	Oct19	100	0	0	Oct19	×	A	09:34:35 A	?	?		?	?	A 09:34:35	FIX				
09:34:26	TSLA	XNAS CALL	+1	Oct19	100	0	0	Oct19	х		09:34:26 A	?	?		?	?	A 09:34:26	FIX				
09:34:18	GOOGL	XNAS CALL	+1	Oct19	100	0	0	Oct19	X		09:34:18 A	?	?		?	?	A 09:34:18	FIX				
09:34:12	GOOG	XNAS CALL	+1	Oct19	100	0	0	Oct19	X		09:34:12 A	?	?		?	?	A 09:34:12	FIX				
09:34:06	HDS	XNAS CALL	+1	Oct19	100	0	0	Oct19	Х		09:34:06 A	?	?		?	?	A 09:34:06	FIX				
09:33:54	LWAY	XNAS CALL	+1	Oct19	100	0	0	Oct19	×		09:33:54 A	?	?		?	?	A 09:33:54	FIX				
09:33:44	UHAL	XNAS CALL	+1	Oct19	100	0	0	Oct19	X	A	09:33:44 A	7	?		?	?	A 09:33:44	FIX				
09:33:39	GSAT	XNYS CALL	+1	Oct19	100	0	0	Oct19	X		09:33:39 A	?	?		?	?	A 09:33:39	FIX				
09:33:34	CVA	XNYS CALL	+1	Oct19	100	0	0	Oct19	×	A	09:33:34 A	?	?		?	?	A 09:33:34	FIX				
09:33:13	ABC	XASX CALL	+1	Oct19	100	0	0	Oct19	X		09:33:13 A	?	?		?	?	A 09:33:13	FIX				
09:33:09	AMS	XJSE CALL	+1	Oct19	100	0	-	Oct19	X		09:33:09 A						A 09:33:09	FIX				
09:33:05	SPY	XASE CALL	+1	Oct19	100	0	0	Oct19	×		09:33:05 A	?	?		?	?	A 09:33:05	FIX				
09:33:01	SPX	XNYS CALL	+1	Oct19	100	0	0	20Dec19	X	E	09:33:01 A	?	?		?	?	A 09:33:01	FIX				
09:32:58	PPA	ARCX CALL	+1	Oct19	100	0	0	Oct19	X	A	09:32:58 A	?	2		2	?	A 09:32:58	FIX				
09:32:51	YELP	XNYS CALL	+1	Oct19	100	0	0	Oct19	X	A	09:32:51 A		2		- 2	2	A 09:32:51	FIX				
09:32:41	WAB	XNYS CALL	+1	Oct19	100	0	0	Oct19	X		09:32:41 A	?	?		2	2	A 09:32:41					
09:32:36	WASH	XNAS CALL	+1	Oct19	100			Oct19	X	A	09:32:36 A	7	2		2	2	A 09:32:36	FIX				
09:32:32	WERN	XNAS CALL	+1	Oct19	100	0	0	Oct19	×		09:32:32 A	?	2		2	2	A 09:32:32	FIX				
09:32:28	AGO	XWAR CALL	+1	Oct19	100	0	0	Oct19 Oct19	X		09:32:28 A	?	?		2	2	A 09:32:28	FIX FIX				
09:32:23	CNS	XNYS CALL	+1	Oct19	100		0		X		09:32:23 A	2	2		2	2	A 09:32:23					
09:32:17		XNYS CALL		Oct19	100	0		Oct19	X		09:32:17 A	?	2		2	2	A 09:32:17	FIX				
09:32:10	ABB	XNSE CALL	+1	Oct19	100	0	0	Oct19	X		09:32:10 A	?	?		2	2	A 09:32:10	FIX				
09:32:02	1055	XHKG CALL XHKG CALL	+1	Oct19 Oct19	100	0	0	Oct19 Oct19	×	A	09:32:02 A 09:31:56 A	2	2		2	2	A 09:32:02	FIX FIX				
																	A 09:31:56					
09:31:52	A	XNYS CALL	+1	Oct19	100	0	0	Oct19	X	A	09:31:52 A	?	?		?	?	A 09:31:52	FIX				
09:31:47	MSFT	VNAS CALL	+1	Oct19	100	0	0	Oct19	×	A	09:31:47 A	?	?		?	?	A 09:31:47	FIX				
By Tab											1									📌 📕 Filter		
		bol ♥ MIC ♥ Strategy						f F.Ref.Date				Event Typ		Type ⊽			Comments Routin					
6067		ARCX CALL	+1	Oct19	100		0	Oct19	X	A	CSCREENMGRB New			OFF		?	A	FIX				
6067		ARCX CALL	+1	Oct19	100		0	Oct19	X	A	CSCREENMGRB New			BIDR	(7	A	FIX				
8 6067		ARCX CALL	+1	Oct19	100		0	Oct19	×		CSCREENMGRB New		пe	000	0	0		FIX				
52 6067 52 6067		XTSE CALL	+1	Oct19	100		0	Oct19	X	A	CSCREENMGRB New			BIDR '		? ?	A	FIX FIX				
		XTSE CALL		Oct19			0	Oct19			CSCREENMGRB New			UFF	r	r	A					
2 6067		XTSE CALL	+1	Oct19	100		~	Oct19	×		CSCREENMGRB New		ine	000		?		FIX				
11 6067 11 6067		XLIF CALL XLIF CALL	+1	Oct19	100		0	Oct19	X		CSCREENMGRB New			BIDR '		? ?	A	FIX FIX				
			+1	Oct19	100		0	Oct19	X		CSCREENMGRB New			UFF	r i i	r	A					
		XLIF CALL	+1	Oct19	100			Oct19	X		CSCREENMGRB New		пe	000	0	?		FIX				
15 6067		XNYS CALL	+1	Oct19	100		0	Oct19	X		CSCREENMGRB New			BIDR			A	FIX				
35 6067 35 6067		XNYS CALL	+1	Oct19	100		0	Oct19	X		CSCREENMGRB New			OFF	r	?	A	FIX				
	3278 RBC	XNYS CALL	+1	Oct19	100		0	Oct19	×	A	CSCREENMGRB New					2		FIX				
0007: 06 6067	0.12T 77C	VNIAS CALL	±1	Oct19	100						COODEENIMODE Nation			BIND								

This document contains information that is confidential and proprietary property and/or trade secrets of ICE Data Services ("IDS") and/or its affiliates, and is not to be published, reproduced, copied, disclosed or used without the express written consent of IDS or its affiliates, as applicable. This presentation is provided for informational purposes only. The information contained herein is subject to change without notice and does not constitute any form of warranty (either express or implied, as to merchantability, fitness for a particular purpose, or any other matter), representation, or undertaking. Nothing herein should in any way be deemed to alter the legal rights and obligations contained in agreements between IDS and/or any of its affiliates relating to any of the products or services described herein. Nothing herein should in any way be deemed to alter the legal rights and advice. Without limiting the foregoing, neither IDS nor its affiliates, makes any representation or warranty that any data or information supplied to or by it are complete or free from errors, omissions, or defects.

Trademarks of Intercontinental Exchange, Inc. and/or its affiliates include: Intercontinental Exchange, ICE, ICE block design, NYSE, ICE Data Services, New York Stock Exchange and Interactive Data. Information regarding additional trademarks and intellectual property rights of Intercontinental Exchange, Inc. and/or its affiliates is located at www.intercontinentalexchange.com/terms-of-use