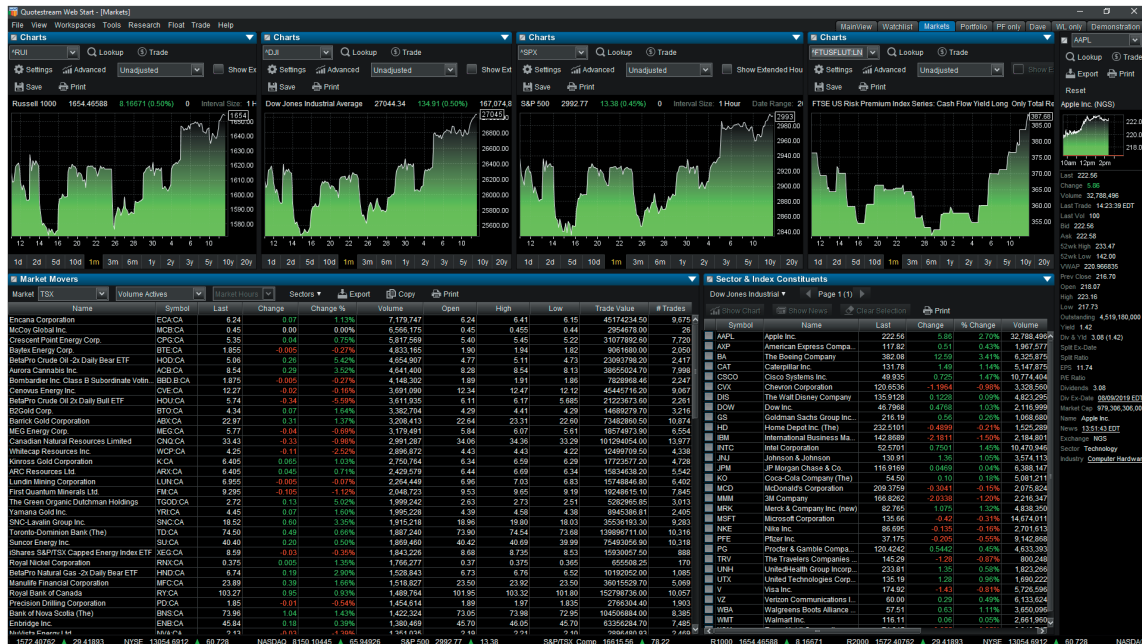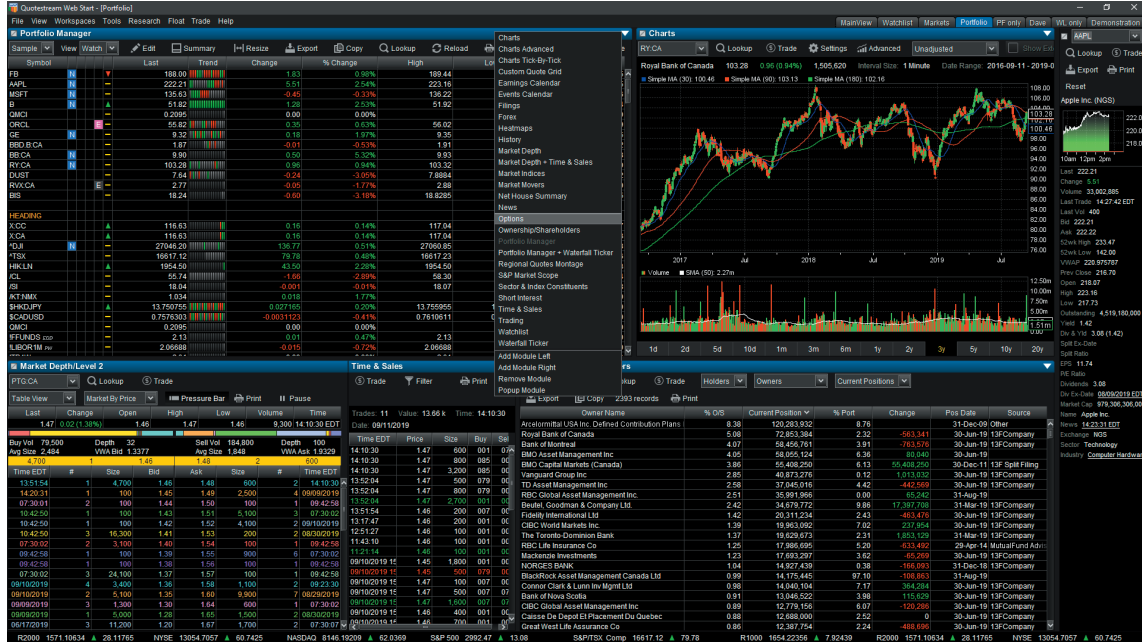# Quotestream
Professional Enterprise

quotemedia

Tick-by-tick Real-time Streaming Data

Quotestream Professional connects directly to QuoteMedia's geographically redundant data centers, providing low latency, tick-by-tick market data to desktop computers. With no software to install, and no servers to maintain, Quotestream is the most cost-effective solution for financial industry professionals.

User Configurable Workspaces

Quotestream Professional provides complete customization for the user. All workspaces can be easily customized and modified at any time. Easy tab navigation allows users to switch between workspaces with ease. Inside each workspace, one can add, remove or change modules to configure the layout for a personalized experience.

Multiple Monitors and Floating Windows

Quotestream Professional's Floating Modules feature allows you to pop up and freely move the modules of your choice, taking full advantage of multi-screen set-ups. All floating windows are resizable and fully configurable, with your floating layouts being automatically saved for you.

Streaming Symbol Lists (Watchlists and Portfolios)

Quotestream Professional provides several ways to monitor symbol lists. Portfolios and Watchlists are typically used and can be located anywhere in a workspace. They are all fully customizable with regards to which columns contain which data and the ordering of data fields. These column views are also sortable, and feature drag-and-drop functionality to re-order columns. Rows (Symbols) are also sortable by any column, such as Alphabetical, by Price, by Volume, Percent Up/Down Change, VWAP, etc.

Streaming Watchlists

The Watchlist Module offers a quick view of configurable columns of symbols and data. Users can define how many sections to display, how many columns of data to display, and what data to display. The Watchlist also features headings to better organize symbol lists as well as exceptional sorting abilities. Intuitive drag-and-drop functionality re-orders symbols, with simple click navigation to add, move or access symbol-specific data and research.

Streaming Portfolios with Custom Column Views

Users can create multiple portfolios, with each portfolio readily toggled for immediate access. The ability to customize workspaces, and their associated modules, provides the opportunity to view multiple portfolios at the same time.

Each Portfolio Module can be easily modified, allowing the user to change, resize, move, add and delete data columns. In addition, portfolios have configurable layouts and column views, with efficient column sorting and quick click access to symbol-specific data and research.

Streaming Real-time News and Historical News

The streaming News Module provides access to a wealth of respected real-time news sources, such as Dow Jones News, Business Wire, PR Newswire, Globe Newswire The Fly and many more, as well as filings releases (SEDAR and SEC Filings). The News Module provides not only access to company-specific news, but also broad news access that encompasses portfolio-based, sector-based and topic-based news. The News Module also allows the user to look back in time to access historical news.

The News Story Reader provides the ability to print or copy/paste a story, and offers increased or decreased font size for easier reading. As well, quick access to related news articles, topics and symbols are featured with each story.

Market Depth / Level 2

The Market Depth / Level 2 module streams order book data for up-to-date information on market activity and Bid/Ask offers, and also includes a Level 2 pressure bar for an at-a-glance indication of the trend. The Market Depth Module provides market-specific customization of the display. For example, the Nasdaq with Open View and Total View offers access to various views including Level 2 (the top of the various market participant books), Total View (all orders individually displayed), and Total View-Aggregated (all orders from the Nasdaq market center book). For Canadian markets such as TSX, TSXV and others, and for UK markets, layouts encompass Market by Price, Market by Broker, and Market Book.
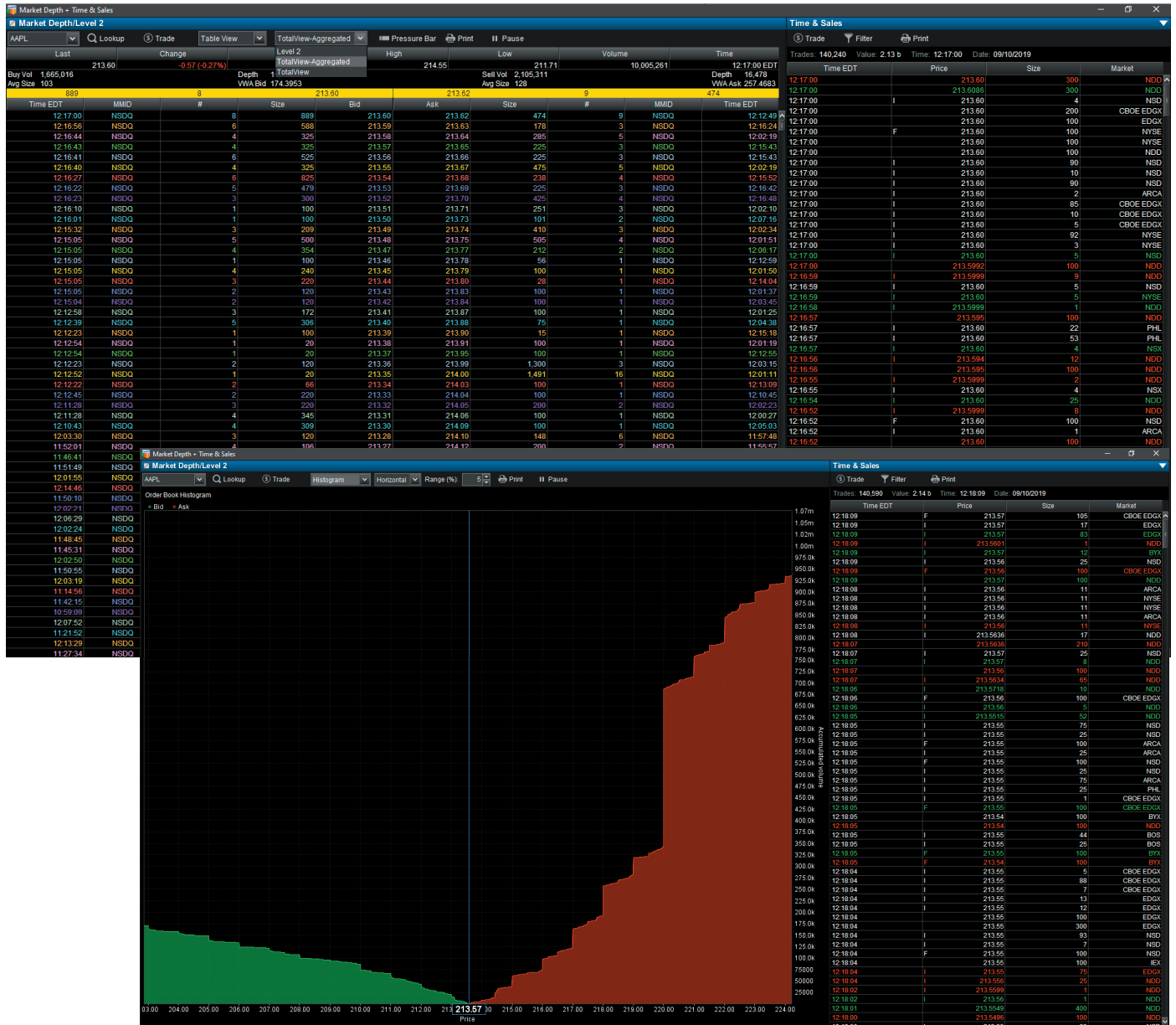
Market Depth / Level 2 + Time and Sales

The Market Depth / Level 2 + Time and Sales Module offers the same comprehensive Market Depth / Level 2 features, and adds dynamically updating Time and Sales into the same view as well.

Time and Sales

While a basic Time and Sales montage can be combined with the Market Depth / Level 2 module, the Time and Sales module is offered with various levels
of access to tick-by-tick data for all trades and/or quotes.

The Time and Sales Module offers users the views including Trades, Trades & Quotes, and Trades & VWAP. Fields for Trades & Quotes include Number of Trades, Trade Value, as well as Time, Price, Size, Bid, Bid Size, Bid Exchange, Ask, Ask Size and Ask Exchange. Fields for Trades & VWAP include Cumulative VWAP, Volume, Number of Trades, Trade Value, as well as Time, Price, Size, Bid, Bid Size, Bid Exchange, Ask, Ask Size and Ask Exchange. Filters include Minimum Trade Size, Buyers, Sellers, and results can be set to Buy-side Trades, Sell-side Trades, In-range Trades, Normal Trades, Special Trades, or Block Trades. The ability to filter based on Broker and/or Exchange/Market is also included.

Time & Sales

AAPL:US — Lookup — ($) Trade — Filter
II Pause — Trades — VWAP Calculator
Live View — 25-Nov-2020 — 09 : 30 : 00 : 000 — GO — Export — Print
Trades: 497,686 Value: 8.89 b Time: 20:00:00 Date: 11/25/2020

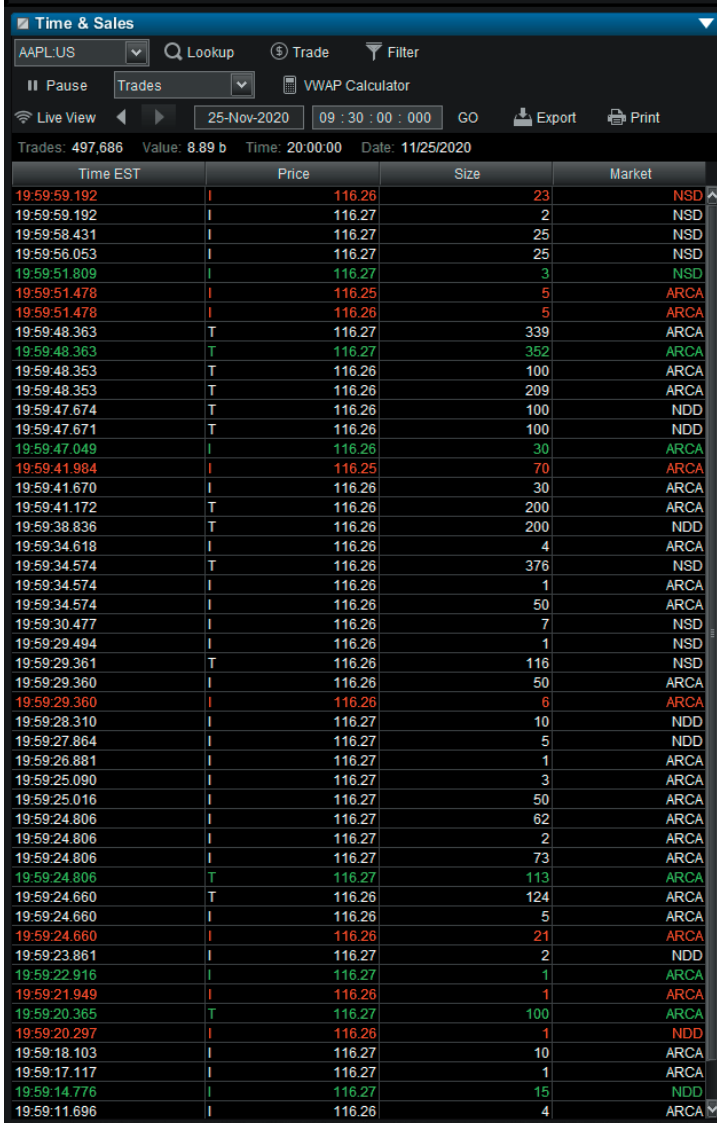| Time EST		Price	Size	Market
19:59:59.192	I	116.26	23	NSD
19:59:59.192	I	116.27	2	NSD
19:59:58.431	I	116.27	25	NSD
19:59:56.053	I	116.27	25	NSD
19:59:51.809	I	116.27	3	NSD
19:59:51.478	I	116.25	5	ARCA
19:59:51.478	I	116.26	5	ARCA
19:59:48.363	T	116.27	339	ARCA
19:59:48.363	T	116.27	352	ARCA
19:59:48.353	T	116.26	100	ARCA
19:59:48.353	T	116.26	209	ARCA
19:59:47.674	T	116.26	100	NDD
19:59:47.671	T	116.26	100	NDD
19:59:47.049	I	116.26	30	ARCA
19:59:41.984	I	116.25	70	ARCA
19:59:41.670	I	116.26	30	ARCA
19:59:41.172	T	116.26	200	ARCA
19:59:38.836	T	116.26	200	NDD
19:59:34.618	I	116.26	4	ARCA
19:59:34.574	T	116.26	376	NSD
19:59:34.574	I	116.26	1	ARCA
19:59:34.574	I	116.26	50	ARCA
19:59:30.477	I	116.26	7	NSD
19:59:29.494	I	116.26	1	NSD
19:59:29.361	T	116.26	116	NSD
19:59:29.360	I	116.26	50	ARCA
19:59:29.360	I	116.26	6	ARCA
19:59:28.310	I	116.27	10	NDD
19:59:27.864	I	116.27	5	NDD
19:59:26.881	I	116.27	1	ARCA
19:59:25.090	I	116.27	3	ARCA
19:59:25.016	I	116.27	50	ARCA
19:59:24.806	I	116.27	62	ARCA
19:59:24.806	I	116.27	2	ARCA
19:59:24.806	I	116.27	73	ARCA
19:59:24.806	T	116.27	113	ARCA
19:59:24.660	T	116.26	124	ARCA
19:59:24.660	I	116.26	5	ARCA
19:59:24.660	I	116.26	21	ARCA
19:59:23.861	I	116.27	2	NDD
19:59:22.916	I	116.27	1	ARCA
19:59:21.949	I	116.26	1	ARCA
19:59:20.365	T	116.27	100	ARCA
19:59:20.297	I	116.26	1	NDD
19:59:18.103	I	116.27	10	ARCA
19:59:17.117	I	116.27	1	ARCA
19:59:14.776	I	116.27	15	NDD
19:59:11.696	I	116.26	4	ARCA

Time & Sales and Quotes

The Time & Sales and Quotes display provides tick-by-tick access to all trades and quotes in the current market session. This view augments the Trades view with further data such as Bid, Ask, Bid Size and Ask Size. Results can also be filtered by Volume, Trade Size, Broker, Buy-side, Sell-side, etc., and Historical Trade Data is available as well.

Historical Time and Sales Module

Historical Time and Sales is an added feature available for the Time & Sales Module, providing access to historical trade data via date and time range input. The data is also downloadable to spreadsheets. Display options can include: Trades - provides a live view and displays the data for the last 50 trades;

Trades & Quotes - provides a live view and displays the data for the last 50 trades as well as the Bid/Ask data based on live activity.

Trades & VWAP - similar to the Trades view, the Trades & VWAP selection provides a live view, with the Historical add-on displaying data for more than the last 50 trades.

The user can filter by Minimum Trade Size, Buyers, Sellers, and can modify result sets by Buy-side Trades, Sell-side Trades, In-range Trades, Normal Trades, Special Trades, or Block Trades. The ability to filter based on Broker and/or Exchange/Market is also included.
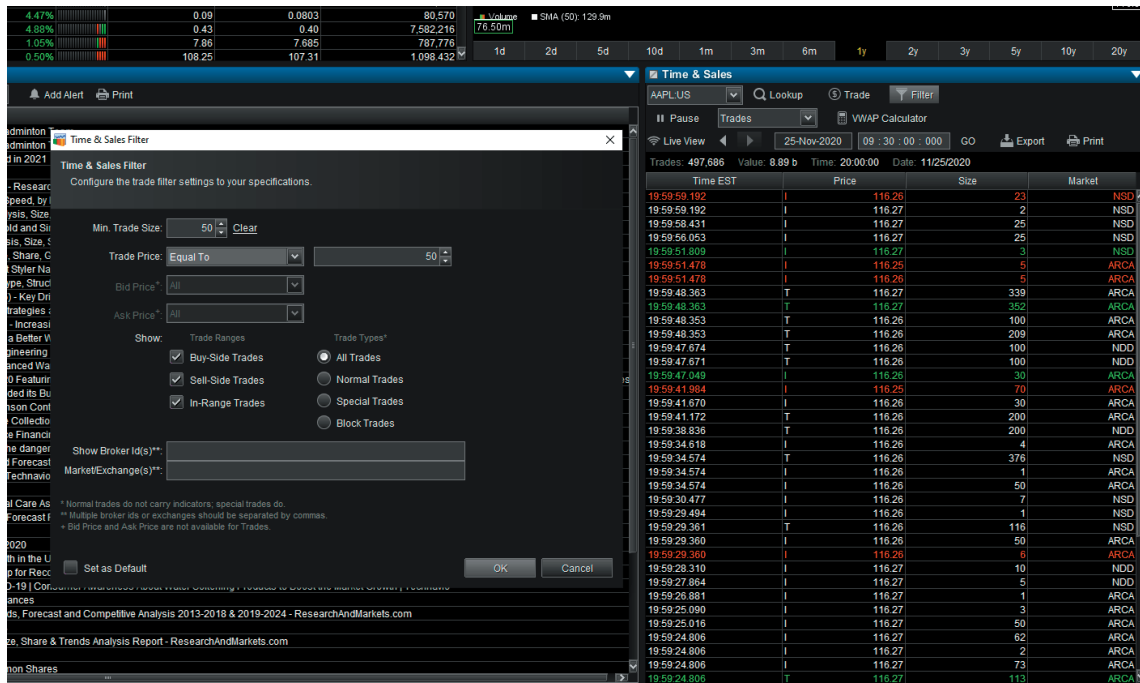
Integrated Charting

Quotestream Charting offers flexible user navigation settings (Moving Averages, Overlays, Lower Indicators, Comparisons, Time Frames, and more), multiple chart type displays (Area, Line, Colored Line, Candlestick, HLC, OHLC, Bar, Colored Bar, etc.), and intuitive design for the smooth facilitation of all use cases, from clear immediate viewing to the most complex technical analysis studies.

Advanced Charting

Advanced Charting can run concurrently with any Workspace, and can be moved to a second monitor. The Advanced Charting module provides streaming intra-day and historical charts with extensive upper and lower indicators and analytics. It provides the user with index, stock, sector, and market comparison charting, overlays, historical and intra-day moving averages, detailed upper indicator analytics, and stackable lower studies, as well as various chart views including Candlestick, OHLC, Line, Mountain and others. Users have the ability to draw on the chart, save current chart settings, as well as send the chart image to their printer.
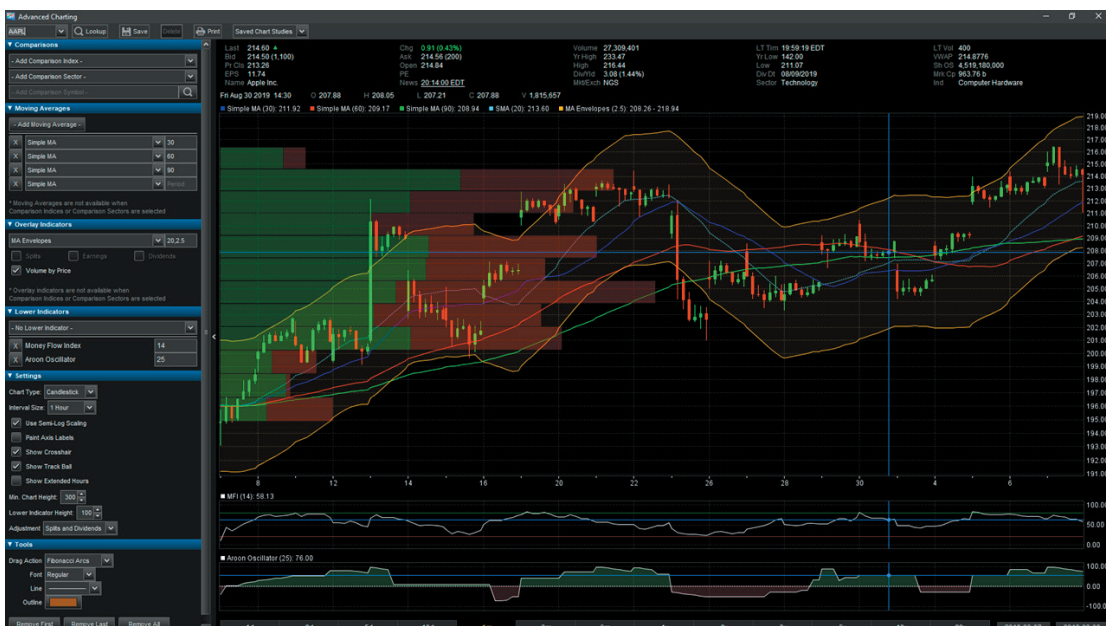
Tick-By-Tick Charting

The Tick-By-Tick Charting Module provides a number of features to more easily view price actions. It provides the user with the ability to view every tick streaming into a chart with customizable time scales. Additional features include the ability to paint axis labels, show Bid and Ask, Volume, and cross-hairs.

Linking (Propagation) Between Modules

Quotestream Professional features the ability to connect or cross-link modules. This provides the user the ability to have linked modules update together when a new symbol is entered. One can also drag a symbol from a portfolio or watchlist into any module (i.e. Charts, News, Level 2, etc.) and that module will update with the data for that symbol. Any linked modules will also update concurrently to that newly applied symbol.
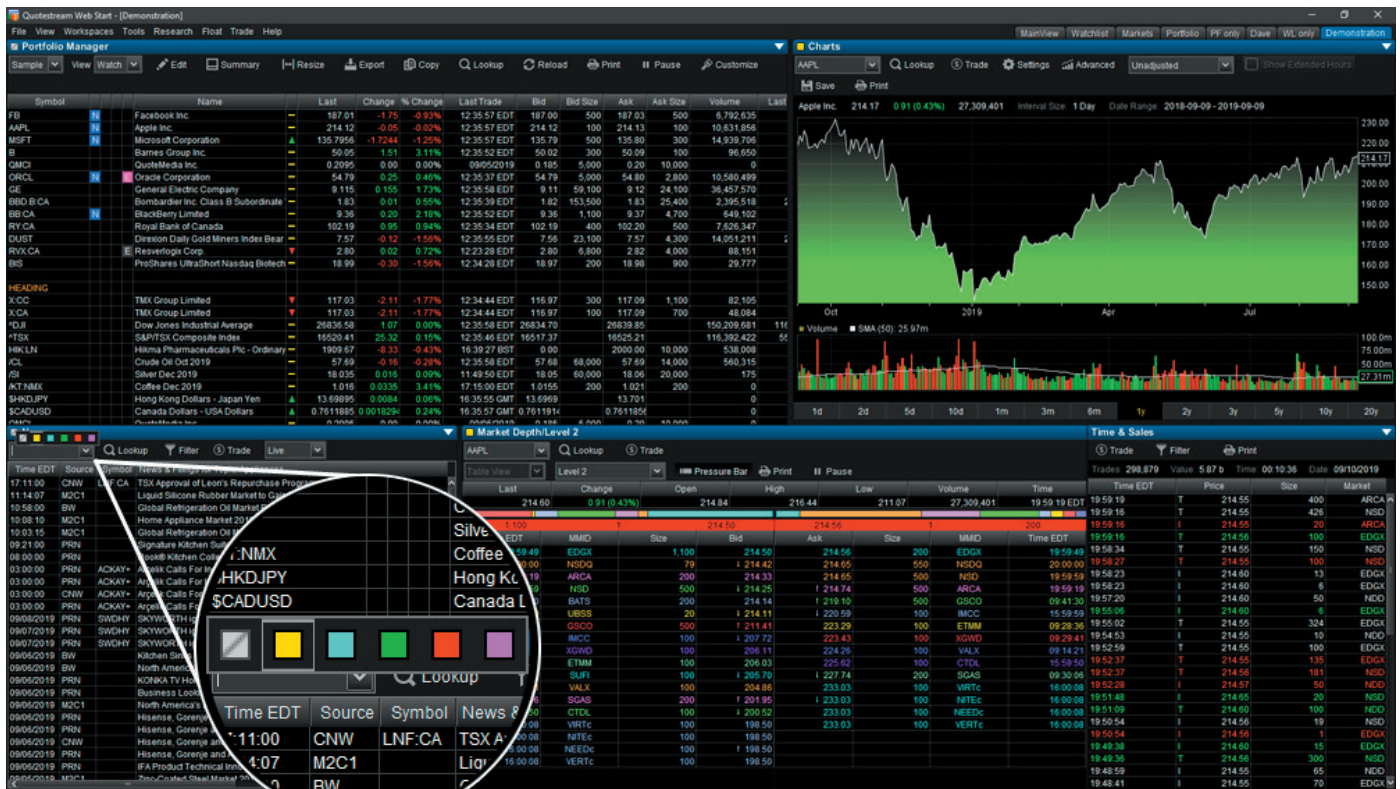
VWAP Calculator

The VWAP Calculator provides users with the ability to calculate the Volume Weighted Average Price for a specified date and within a time period range for that date, using the VWAP Intra-day feature.

This feature can be filtered by Minimum Trade Size, Buyers, Sellers, with the result sets allowing further focus on Buy-side Trades, Sell-side Trades, In-range Trades, Normal Trades, Special Trades, or Block Trades. The ability to filter based on Broker and/or Exchange/Market is also an offered feature.

In addition, the VWAP Date Range function provides users with the ability to calculate VWAP for a period of a number of days using historical data.

Company Filings Module

The Company Filings Module provides a view of the most recent as well as historical SEC (USA) and SEDAR (Canada) filings documents. Company filings can be filtered for more streamlined access to specific types of documents. Users can also set alerts for filings releases, to be notified when specified firms release documents to the public.

Short Interest Module

The Short Interest Module provides users with short position statistics in order to evaluate investor sentiment on particular stocks. The data is viewable in table or chart format and can be exported to spreadsheets as well.

Regional Quotes Montage

The Regional Quotes Montage allows users to view the listed values for all exchanges and alternative trading systems for a particular Canadian or US stock symbol. The montage presents the main consolidated quote, followed by its various market venues. Users get a comprehensive view of trading activity across multiple marketplaces, aiding in executing trade strategies more effectively. The user is able to easily customize the view of data fields, and to download the data.

Net House Summary

The Net House Summary Module provides a summary of trading activity for Canadian securities, either intra-day or via historical date ranges. Data includes the Broker ID and Name, Buy VWAP, Buy Volume, Buy Volume Percent, Buy Value, Sell VWAP, Sell Volume, Sell Volume Percent and Sell Value, as well as Net Volume, Net Value, Total Volume and Total Value. The values can be exported directly or copied to clipboard for pasting into spreadsheets or documents.

Broker ID	Broker Name	Buy VWAP	Buy Vol	Buy Trans.	Buy Vol %	Buy Value	Sell VWAP	Sell Vol	Sell Trans.	Sell Vol %	Sell Value	Net Vol	Net Value
001	Anonymous	99.570		52,076		5083786.00	99.573	7,768,303	50,812	17.54%	773510771.00	16,008	1573015.00
002	RBC Capital Markets	99.511	3,679,357	20,108		135780.00	99.442	1,719,254	10,961	3.88%	170965546.00	1,960,103	195170234.00
003	AltaCorp Capital Inc.		0	0		0	99.885	291,012	975	0.66%	29067851.90	-291,012	-29067851.90
004	Cantor Fitzgerald Canada Corpo...		0	0			100.320	280,400	2,528	0.63%	28129666.90	-280,400	-28129666.90
005	Citadel Securities Canada ULC	99.549	560,527	4,367		300151.20	99.504	531,879	5,461	1.20%	52924224.00	28,648	2875927.20
007	TD Securities Inc.	99.662	2,937,187	11,315		2726649.00	99.554	3,460,718	9,123	7.81%	344529643.00	-523,531	-51802994.00
008	Dundee Capital Partners	99.328	53,800	17		43834.50	99.340	54,800	21	0.12%	5443829.00	-1,000	-99994.50
009	BMO Nesbitt Burns Inc.	99.726	2,416,675	7,161		1006530.00	99.519	1,798,822	9,444	4.06%	179017139.00	617,853	61989391.00
011	Macquarie Capital Markets Can...	100.756	20,396	12		55020.18	98.016	2,640	20	0.01%	258761.95	17,756	1796258.23
013	Instinet Canada Limited	99.390	1,085,965	6,581		7934274.00	99.662	1,139,190	7,488	2.57%	113533568.00	-53,225	-5599294.00
014	ITG Canada Corp.	99.536	273,192	937		192484.00	99.630	161,802	863	0.37%	16120291.20	111,390	11072192.80
015	UBS Securities Canada Inc.	99.697	135,032	711		462346.40	99.710	381,739	2,334	0.86%	38063363.30	-246,707	-24601016.90
016	Paradigm Capital Inc.		0	0		0	99.620	15,300	95	0.03%	1524193.00	-15,300	-1524193.00
018	Echelon Wealth Partners Inc.	99.370	100	1	0.00%	9937.00		0	0	0.00%	0.00	100	9937.00
019	Desjardins Securities Inc.	99.865	122,249	661	0.28%	12208428.70	99.865	92,349	371	0.21%	9222474.71	29,900	2985953.99
021	Pavilion Global Markets Ltd.		0	0	0.00%	0.00	99.183	630	4	0.00%	62485.50	-630	-62485.50
022	Fidelity Clearing Canada ULC	99.234	6,910	50	0.02%	685704.50	98.955	4,365	32	0.01%	431939.00	2,545	253765.50
023	State Street Global Markets Can...		0	0	0.00%	0.00	97.736	213,101	247	0.48%	20827734.50	-213,101	-20827734.50
025	Odium Brown Limited	99.322	9,620	93	0.02%	955479.95	99.650	12,125	92	0.03%	1208253.41	-2,505	-252773.46
028	BBS Securities Inc.	99.879	2,155	30	0.00%	215238.38	99.614	2,918	34	0.01%	290672.53	-763	-75434.15
033	Canaccord Genuity Corp.	99.553	30,500	142	0.07%	3036360.11	98.845	330,798	1,478	0.75%	32697860.70	-300,298	-29661500.59
035	Friedberg Mercantile Group	99.255	3,050	21	0.01%	302729.00	99.272	3,450	16	0.01%	342489.00	-400	-39760.00
036	W.D. Latimer Co. Limited	99.208	5,600	39	0.01%	555563.00	99.420	5,000	34	0.01%	497102.00	600	58461.00
039	Merrill Lynch Canada Inc.	99.502	1,991,615	11,822	4.50%	198169736.00	99.615	1,761,190	9,257	3.98%	175441807.00	230,425	22727929.00
043	Caldwell Securities Ltd.	99.948	698	7	0.00%	69763.66	98.645	1,105	13	0.00%	109003.10	-407	-39239.44
048	Laurentian Bank Securities Inc.	99.108	2,904	24	0.01%	287811.00	98.874	77,471	638	0.17%	7659875.86	-74,567	-7372064.86
053	Morgan Stanley Canada Limited	99.429	1,442,673	9,065	3.26%	143443603.00	99.617	2,064,722	14,778	4.66%	205680569.00	-622,049	-62236966.00
055	Magna Partners Ltd.	100.651	1,400	8	0.00%	140911.00	100.147	2,400	18	0.01%	240354.00	-1,000	-99443.00
056	Edward Jones	98.823	5,222	30	0.01%	516052.63	99.671	11,169	81	0.03%	1113228.11	-5,947	-597175.48
057	Interactive Brokers Canada Inc.	98.910	5,192	63	0.01%	513543.00	100.078	1,350	28	0.00%	135105.50	3,842	378437.50
059	PI Financial Corp.	100.825	20,210	163	0.05%	2037675.99	99.708	1,742	17	0.00%	173690.53	18,468	1863985.46
062	Haywood Securities Inc.	99.713	693	7	0.00%	69100.80	99.614	2,000	11	0.00%	199227.00	-1,307	-130126.20
065	Goldman Sachs Canada Inc.	99.910	717,541	1,812	1.62%	71689325.30	100.144	628,491	2,236	1.42%	62939418.10	89,050	8749907.20
068	Leede Jones Gable Inc.	99.471	2,408	21	0.01%	239525.56	99.243	1,500	15	0.00%	148864.50	908	90661.06
070	Manulife Securities Incorporated	99.167	2,628	26	0.01%	260612.00	99.902	5,647	52	0.01%	564147.58	-3,019	-303535.58
072	Credit Suisse Securities (Canad...	99.841	424,528	1,812	0.96%	42385318.80	99.867	426,011	1,671	0.96%	42544480.90	-1,483	-159162.10
073	Cormark Securities Inc.	100.080	100	1	0.00%	10008.00	97.754	9,100	86	0.02%	889558.00	-9,000	-879550.00
074	GMP Securities L.P.	99.210	4,888	41	0.01%	484939.51	99.702	29,606	189	0.07%	2951785.86	-24,718	-2466846.35
076	Industrial Alliance Securities Inc.	100.726	44,297	351	0.10%	4461838.99	99.438	10,609	136	0.02%	1054940.98	33,688	3406898.01
077	Peters & Co. Limited	97.800	100	1	0.00%	9780.00		0	0	0.00%	0.00	100	9780.00
079	CIBC World Markets Inc.	99.531	11,428,823	83,405	25.80%	1137526300.00	99.511	12,500,642	84,958	28.22%	1243947100.00	-1,071,819	-106420800.00
080	National Bank Financial Inc.	99.484	2,056,739	13,732	4.64%	204613500.00	99.608	1,827,783	10,999	4.13%	182061196.00	228,956	22552304.00
083	Mackie Research Capital Corpo...	99.484	4,205	31	0.01%	415530.39	98.963	8,373	64	0.02%	828618.20	-4,168	-413087.81
085	Scotia Capital Inc.	100.613	2,793,922	4,278	6.31%	281104667.00	100.300	3,470,479	2,839	7.84%	348087846.00	-676,557	-66983179.00
086	Pictet Canada L.P.	98.877	4,800	28	0.01%	474609.00	100.388	601	4	0.00%	60333.40	4,199	414275.60
088	Credential Securities Inc.	98.990	11,961	128	0.03%	1184018.91	99.325	11,047	111	0.02%	1097240.22	914	86778.69
089	Raymond James Ltd.	99.450	30,283	309	0.07%	3011658.88	100.177	123,331	743	0.28%	12354979.90	-93,048	-9343321.02
090	Barclays Capital Canada Inc.	99.427	313,333	2,144	0.71%	31153799.20	99.968	566,847	3,850	1.28%	56666291.10	-253,514	-25512491.90
091	JonesTrading Canada Inc.	101.060	300	3	0.00%	30318.00	98.773	6,700	35	0.02%	661776.50	-6,400	-631458.50
094	Hampton Securities Limited		0	0	0.00%	0.00	100.380	200	2	0.00%	20076.00	-200	-20076.00
099	JitneyTrade Inc.	99.278	127,550	772	0.29%	12662868.90	99.485	156,450	876	0.35%	15564487.40	-28,900	-2901618.50
101	Société Générale Capital Canad...	100.147	3,566,353	4,968	8.05%	357161153.00	100.721	2,062,415	2,874	4.66%	207728046.00	1,503,938	149433107.00
124	Questrade Inc.	99.279	34,813	593	0.08%	3456204.39	99.623	25,583	363	0.06%	2548660.72	9,230	907543.67
132	Acker Finley Inc.		0	0	0.00%		99.540	300	2	0.00%	29862.00	-300	-29862.00
Totals		99.673	44,290,365	240,870	100.00%	4414556147.88	99.673	44,290,365	240,870	100.00%	4414556151.88	0	-3.99

Waterfall Ticker

The Waterfall Ticker Module streams Time and Sales for a whole portfolio. All Time and Sales trades are streamed for all symbols in the selected portfolio. Fields include Symbol, Price, Size, Time, Exchange, Buyer and Seller.

The user can filter by Minimum Trade Size, Buyers, Sellers, and result sets can focus on Buy-side Trades, Sell-side Trades, In-range Trades, Normal Trades, Special Trades, or Block Trades. The ability to filter based on Broker and/or Exchange/Market is also included.

Waterfall Ticker

Sample ▾ | Trades & Quotes ▾ | Filter | Print | Pause

Symbol		Price	Size	Time	Market	Bid Price	Bid Size	Bid Mkt	Ask Price	Ask Size	Ask Mkt
GE	I	8.98	16	18:27:20 EDT	NSD						
GE	T	8.98	150	18:27:16 EDT	NSD						
GE	T	8.97	200	18:08:36 EDT	EDGX	118.84	100	TSX	119.50	100	TSX
ORCL	T	54.54	129,243	18:05:42 EDT	NDD	101.22	1,000	TSX	101.33	800	TSX
L	T	49.61	17,313	18:05:42 EDT	NDD	2.75	2,000	TSX	2.80	5,800	TSX
GE	T	8.96	311,162	18:05:26 EDT	NDD	1.38	24,800	TSX	1.40	2,300	TSX
GE	I	8.96	50	18:04:57 EDT	EDGX	1.82	30,200	TSX	1.83	53,200	TSX
GE	T	8.97	100	18:04:41 EDT	EDGX	9.16	500	TSX	9.18	900	TSX
GE	I	8.97	1	17:59:09 EDT	NDD						
GE	I	8.97	1	17:58:56 EDT	NDD	26748.77	0	DJI	26940.36	0	DJI
GE	I	8.95	1	17:58:10 EDT	EDGX	16465.76	0	TSX	16521.48	0	TSX
GE	I	8.95	1	17:57:43 EDT	NDD	0.00	0		0.00	0	
GE	I	8.97	1	17:56:30 EDT	NDD	18.50	100	NSD	20.00	100	EDGX
GE	I	8.95	1	17:56:15 EDT	EDGX						
GE	I	8.95	1	17:56:02 EDT	NDD						
GE	I	8.95	1	17:55:54 EDT	EDGX						
GE	I	8.97	2	17:55:52 EDT	NDD						
GE	I	8.95	2	17:54:55 EDT	EDGX						
GE	I	8.95	7	17:54:16 EDT	NDD						
GE	I	8.95	10	17:52:54 EDT	EDGX						
GE	I	8.95	1	17:52:17 EDT	NDD						
GE	T	8.95	1,000	17:50:18 EDT	EDGX						
GE	I	8.99	90	17:50:18 EDT	NDD						
/KT:NMX				09/09/2019 17:50		0.00	0	NMX	0.00	0	NMX
GE	T	8.9631	580	17:49:58 EDT	NDD						
GE	I	8.96	1	17:49:26 EDT	NDD						
GE	I	8.99	4	17:49:10 EDT	NDD						
GE	I	8.96	5	17:48:17 EDT	NDD						
GE	I	8.99	1	17:48:10 EDT	NDD						
GE	I	8.96	5	17:48:09 EDT	NDD						
GE	I	8.98	16	18:27:20 EDT	NSD						
GE	T	8.98	150	18:27:16 EDT	NSD						
GE	T	8.97	200	18:08:36 EDT	EDGX	118.84	100	TSX	119.50	100	TSX
ORCL	T	54.54	129,243	18:05:42 EDT	NDD	101.22	1,000	TSX	101.33	800	TSX
L	T	49.61	17,313	18:05:42 EDT	NDD	2.75	2,000	TSX	2.80	5,800	TSX

Portfolio Manager with Waterfall Ticker Module

The Portfolio Manager + Waterfall Ticker Module places the dynamic Waterfall Ticker into a single view alongside any portfolio the user would like to track.

Portfolio Manager

Sample ▾ | View | Watch ▾ | Edit | Summary | Resize | Export | Copy | Lookup | Reload | Print | Pause | Customize

Symbol			Last	Change	% Change	Volume	Trend	High	Low
FB	N	▲	187.142	-1.618	-0.86%	6,984,153		188.10	186.24
AAPL	N	▲	214.1231	-0.0469	-0.02%	11,050,443		214.55	211.71
MSFT	N	—	135.83	-1.69	-1.23%	15,237,683		136.8862	134.51
B		—	50.10	1.56	3.21%	100,348		50.14	48.42
QMCI		—	0.2095	0.00	0.00%	0			
ORCL	N	E—	54.86	0.32	0.59%	10,898,946		54.92	54.14
GE		—	9.1025	0.1425	1.59%	37,368,653		9.27	8.905
BBD.B:CA		—	1.83	0.01	0.55%	2,535,368		1.84	1.80
BB:CA	N	—	9.34	0.18	1.97%	657,152		9.40	9.08
RY:CA		—	102.31	1.07	1.06%	7,676,931		102.31	101.00
DUST		▲	7.668	-0.022	-0.29%	14,520,063		7.9134	7.43
RVX:CA	E	▼	2.80	0.02	0.72%	88,151		2.90	2.80
BIS		▲	18.95	-0.34	-1.76%	32,692		19.7389	18.9094
HEADING									
X:CC		—	116.79	-2.35	-1.97%	86,946		119.14	116.79
X:CA		—	116.79	-2.35	-1.97%	51,525		119.14	116.79
^DJI		—	26843.99	8.48	0.03%	154,603,300		26857.30	26711.05
^TSX		—	16524.14	29.05	0.18%	120,377,949		16526.60	16459.40
HIK:LN		—	1909.67	-8.33	-0.43%	538,008		1928.50	1878.00
/CL		—	57.71	-0.14	-0.24%	567,183		58.76	57.30
/SI		—	18.035	0.016	0.09%	175		18.085	17.77
/KT:NMX		—	1.016	0.0335	3.41%	0			
$HKDJPY		▲	13.70485	0.0143	0.10%	0		13.712	13.67136
$CADUSD		—	0.7609771	0.001618	0.21%	0		0.7613798	0.7580553
QMCI		—	0.2095	0.00	0.00%	0			
!FFUNDS EOD		—	2.12	-0.01	-0.47%	0		2.12	2.12
!LIBOR1M PW		—	2.08188	-0.00712	-0.34%	0		2.08188	2.08188
!TB4W EOD		—	2.01	0.00	0.00%	0		2.01	2.01
L		▲	49.86	0.25	0.50%	275,355		49.86	49.46

Waterfall Ticker

Trades ▾ | Filter | Print

Symbol		Price	Size	Time	Market
MSFT		135.83	100	12:49:00 EDT	NDD
MSFT		135.83	100	12:49:00 EDT	NDD
MSFT		135.83	100	12:49:00 EDT	NDD
MSFT		135.83	100	12:49:00 EDT	NDD
C		68.90	100	12:49:00 EDT	EDGA
M		16.885	100	12:49:00 EDT	NSX
M	F	16.89	100	12:49:00 EDT	EDGA
M		16.88	600	12:49:00 EDT	NDD
M		16.885	600	12:49:00 EDT	NSD
S	F	6.86	100	12:49:00 EDT	EDGA
HI		29.46	100	12:49:00 EDT	NSD
FB		187.142	152	12:49:00 EDT	NDD
FB	I	187.15	4	12:48:59 EDT	NDD
FB	I	187.15	4	12:48:59 EDT	PHL
FB	I	187.15	15	12:48:59 EDT	PHL
FB	I	187.15	40	12:48:59 EDT	CBOE EDGX
FB		187.1466	15	12:48:59 EDT	NDD
FB	I	187.1465	40	12:48:59 EDT	NDD
SWN		2.375	400	12:48:59 EDT	NDD
AAPL	I	214.1199	8	12:48:59 EDT	NDD
M	F	16.885	100	12:48:59 EDT	IEX
M	F	16.89	100	12:48:59 EDT	NSD
M		16.885	100	12:48:59 EDT	BOS
M		16.89	100	12:48:59 EDT	BYX
M		16.885	100	12:48:59 EDT	NYSE
FB		187.14	700	12:48:59 EDT	NDD
MSFT		135.8225	100	12:48:59 EDT	NDD
MSFT	F	135.83	300	12:48:59 EDT	EDGA
MSFT		135.83	200	12:48:59 EDT	EDGA
MSFT	F	135.82	100	12:48:59 EDT	NSD
MSFT	F	135.82	100	12:48:59 EDT	NSD

Options Module

The Options Module displays information for all trading options, composite and regional, for a given root symbol. Quotestream Professional provides complete access to option chains and detailed options quotes, as well as Greeks, Implied Volatility, Most Actives, In/Out of the Money, At the Money, All, Composite/Regional, Calls/Puts, and options charts.

Stocks, Mutual Funds, and ETFs Screening

The Stock Screener allows for comprehensive stock screening. Hundreds of screening criteria are available, including Share Performance, Average Share Volume, Exchange, Dividend, Income Growth Rates, Margins, Turnover, Growth, Ownership, Market Cap, and much more.

The Mutual Funds Screener allows the user to quickly run scans based on a wide array of criteria, including NAV Description, Performance, Performance Return, Cost and Expense, Load Type, Expense Ratio and much more.

The ETF Screener allows the user to quickly run scans based on a wide variety of criteria, including Exchange, Sector, Holdings and much more.

Premium Mutual Fund and ETF Research

The Mutual Fund and ETF Research Module provides in-depth information covering Overview, Profile, Performance, Risk Analysis, Attributes, Assets, Holdings, Detailed Insights and much more. QuoteMedia offers a comprehensive database offering with detailed insights into a wide range of U.S. and Canadian Mutual Funds, Exchange Traded Funds and other fund investment products, all licensed through a single source with flexible terms and robust delivery methods.

Market Indices Module

The Market Indices Module provides dynamically updating Last, Change, % Change, along with Open, High, Low values for a wide range of North American and Global Markets Indices. Users can easily choose which Markets from which countries to display.

Market Movers

The Market Movers Module provides real-time information for all North American equity exchanges as well as LSE. The categories allow the user to focus in on a specific subset of leaders, as well as look at the entire list. Categories include: Volume Actives, Dollar Gainers/Losers, Percent Gainers/Losers, Dollar Volume Actives, 52 Week High, 52 Week Low, Market Hours, Pre Market and After Hours, as well as Display by Sector.

Sector and Index Constituents

The Sector & Index Constituents Module provides users with a comprehensive view of the companies that make up a chosen sector or index. Among other useful features, symbols can be selected for advanced comparison charting as well as for the spectrum of associated news headlines and stories.

Snap Quote Bar and Stock Ticker

Quotestream Professional features a Snap Quote Bar for quick access to real-time quotes. The Snap Quote Bar is configurable so that the user can assign specific data points of interest into each section. The Snap Quote can be positioned horizontally or vertically in the application, or removed completely.

In addition, Quotestream Professional features a customizable dynamic Scrolling Ticker for users that want specific markets or company symbols to scroll across the screen. The Scrolling Ticker can be positioned at the top or bottom of the workspace, or removed completely.
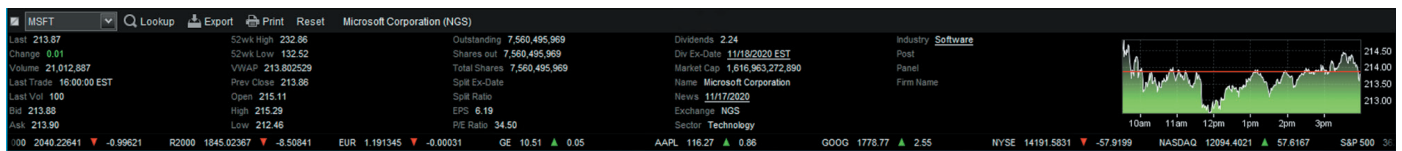
Configurable Snap Quote
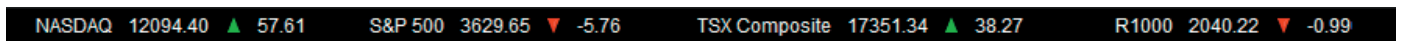
Stock/Market Ticker

Custom Quote Grid

The Custom Quote Grid allows users to easily create their own quote layouts, whether they prefer a simpler snap quote approach or an extensive data profile of any security. Detailed Quote data, Earnings, Share Information, Corporate Actions, Performance Metrics, Sector and Industry data, Valuation, Risk Measures and much more are all at the user's fingertips, ready to be arranged, highlighted and manipulated according to individual preferences.

Company Research Module

The Company Research Module provides quick access to comprehensive company research information with a click. Detailed Quotes, Charts, Fundamentals, News, History, Market Depth, Time and Sales, Insiders, Financials, Company Profiles, Share Statistics, Earnings, Analyst Ratings, Calendars, Corporate Actions are just some of the screens that make up the Research Module.
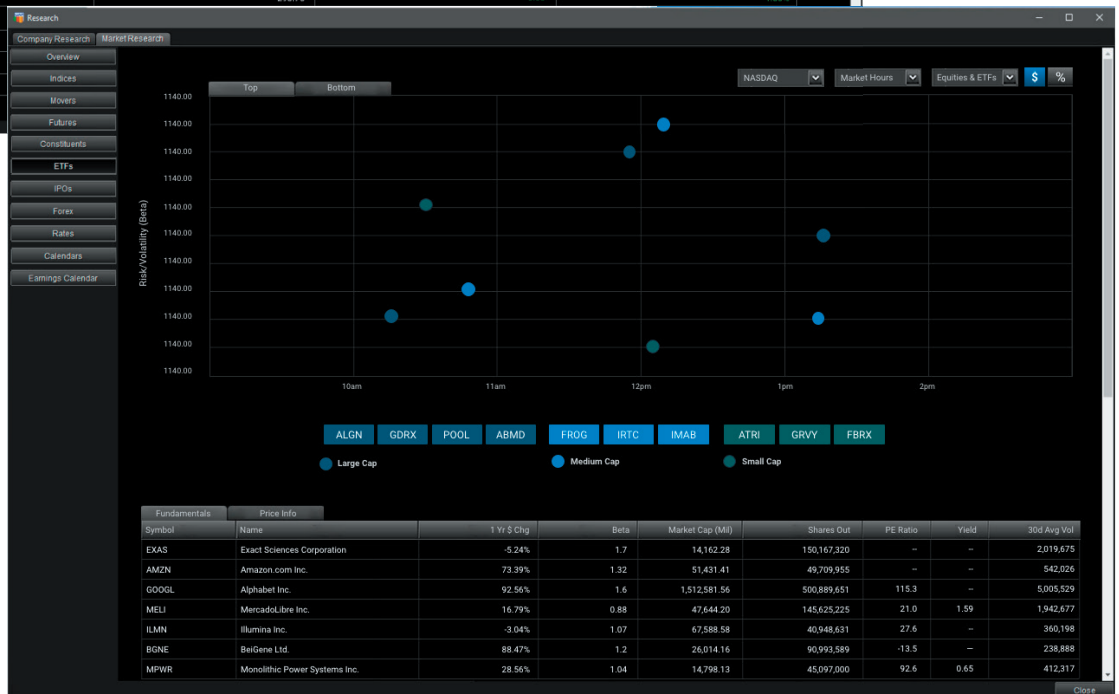
Ownership/Shareholders Module

The Ownership/Shareholders Module provides valuable information on the holdings of firms and funds, as well as Insiders Transactions for a symbol for up to the last 2 years. The data can be exported to CSV format or copied to a user's PC clipboard. Reports include: Current Holders and Historical Holders by Owners, Funds, or Owners & Funds. Also provided are Insiders Reports including Current Positions and Recent Transactions.

Market Research Module

The Market Research Module provides comprehensive information covering Market Overviews (Market Stats), Indices, Market Movers, Futures, Constituents, ETFs, IPOs, Forex, Rates and Market Calendars (Broker Ratings, Earnings Estimates, Corporate Actions).

Events Calendar Module

The Events Calendar Module provides corporate event information on a specified symbol for future and historical events. Corporate event data includes Broker Ratings, Earnings Pre-Announcements, Earnings Surprises, Earnings Estimate Revisions, Stock Splits, and Dividends.

Earnings Calendar Module

The Earnings Calendar allows the user to view upcoming earnings releases for securities on all North American exchanges. The Time, Estimated Earnings per Share and actual EPS are viewable from the calendar. The Earnings Calendar Module also includes an Upcoming Earnings tab, sortable by exchange, displaying Symbols and Company Names for current day and upcoming Earnings Releases.

Analyst Ratings and Earnings Estimates

Quotestream Professional provides quick access to new ratings releases. The Broker Ratings module covers Upgrades, Downgrades, Coverage Initiated, and Coverage Reiterated. New earnings announcements are also readily available, with updates on Positive Earnings Pre-Announcements, Negative Earnings Pre-Announcements, Positive Surprises, Negative Surprises, and Earnings Estimate Revisions.

Corporate Actions

The Market Research Module also provides Corporate Actions data, including up-to-date and historical Splits and Dividends.

Futures and Commodities

The Futures Overview is also available in the Market Research module. The Futures Overview contains the most popular Futures/Commodities and their recent performance.

Forex Module, Foreign Exchange and Currencies

Quotestream Professional covers Global Currency Pairings, providing a broad view into the Forex market and global currency changes. The Forex Module provides Currency Cross-Rates, Charts, Last Sell Price, Change, and a Currency Converter.

History Module

The History Module allows the user to enter a date range and review a company's trading history, over Daily, Monthly, Quarterly or Yearly time frames, for both Adjusted (for Splits and / or Dividends) and Unadjusted data. Data can be exported to a spreadsheet for easy storage and manipulation. The Historical Module also features a built-in Total Return Index Value (TRIV) Calculator for comparison of the security against a full range of Indices.

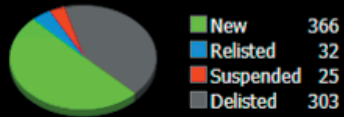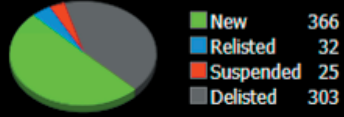# Portfolio Heatmaps, Watchlist Heatmaps, Index and Sector Heatmaps

The Heatmaps Module offers an intuitive look at an entire portfolio or watchlist, as well as insight into the markets via visualizations of Index Constituents and Sector breakdowns. Color coding provides Up /Down change information at a glance, and each Heatmap can be sorted by Change or alphabetical criteria.

IPO Data

Quotestream Professional also provides access to IPO information. In addition to Initial Public Offerings, other key Listing Events are also provided, such as companies that are Suspended, Delisted, or Relisted.

IPOs - North America

IPO and Listing Events - USA
More Listing Events

Date	Exchange	Company Name	Symbol	Status
11/30/2020	NMF	BlackRock Funds Liquid Environmentally Aware Fd Mischler Finl Group	PDFXX	New Listing
11/30/2020	NMF	Morgan Stanley Institutional Fund Trust High Yield Ptf Cl W	MSYWX	New Listing
11/30/2020	NMF	Domini Investment Trust Intl Opportunities Fd Instl Shs	LEADX	New Listing
11/30/2020	NMF	Domini Investment Trust Intl Opportunities Fd Inv Shs	RISEX	New Listing
11/30/2020	NMF	Wasatch Funds Inc Greater China Fd Instl Cl	WGGCX	New Listing

Summary For November 2020

New	366
Relisted	32
Suspended	25
Delisted	303

IPO and Listing Events - Canada
More Listing Events

Date	Exchange	Company Name	Symbol	Status
11/25/2020	TSX	Manulife Smart Core Bond ETF Common Units	BSKT:CA	New Listing
11/25/2020	TSX	Manulife Smart U.S. Dividend ETF Unhedged Units	UDIV.B:CA	New Listing
11/25/2020	TSX	Manulife Smart U.S. Dividend ETF Hedged Units	UDIV:CA	New Listing
11/25/2020	TSX	Manulife Smart Corporate Bond ETF Common Units	CBND:CA	New Listing

Summary For November 2020

|	
New	366
Relisted	32
Suspended	25
Delisted	303

ETF Overview

Quotestream Professional provides an Exchange Traded Funds Overview for both Canadian and US ETFs. The ETF Overview displays information on the best and worst performing ETFs, as well as an ETF Snapshot broken down by Fund Family.

ETF Performance Overview

1d

Best Performers

ETF	Symbol	Last	$ Chg	% Chg	52Wk High	52Wk Low
DIREXION SH ETF TR	ERY	33.93	1.27	3.89%	379.37	32.51
DIREXION SH ETF TR	NUGT	62.13	2.21	3.69%	214.10	24.15
PROSHARES TRUST	DUG	28.27	0.87	3.18%	184.95	27.22
PROSHARES TRUST II	UCO	32.85	0.90	2.82%	553.25	11.00
PROSHARES TRUST	UBR	29.64	0.76	2.63%	94.40	12.29

More

Symbol Search

The easily accessed Symbol Lookup window allows you to perform a refined search when you have some information about a company, but need to know the ticker symbol. You can search by Company Name, Instrument Type, as well as Country. Search results can provide Company name, Symbol, Exchange/Instrument, CUSIP, SEDOL, and ISIN. The Symbol Lookup provides results for not only US, Canadian, and UK instruments, but also for global international equities.
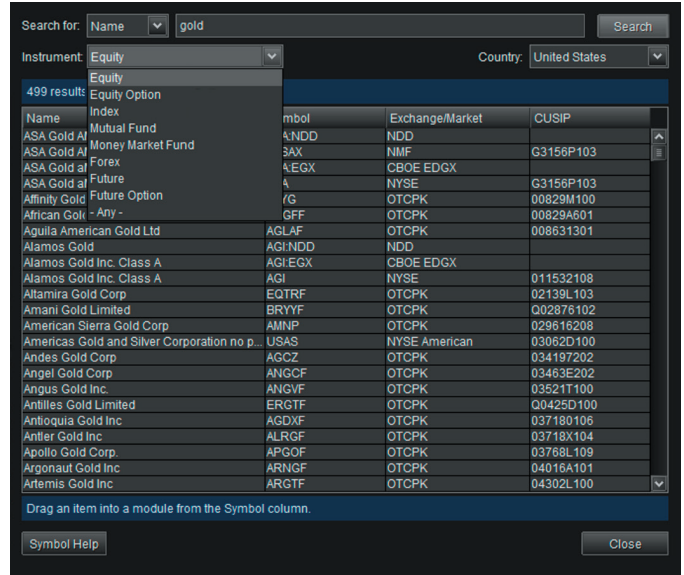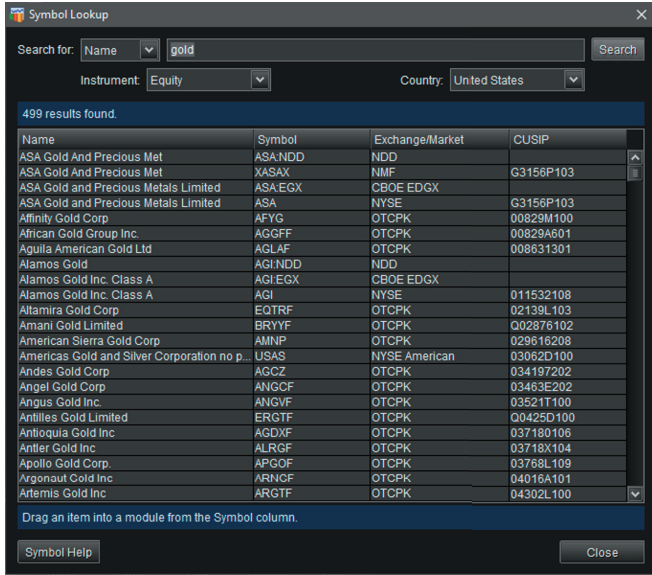
RTD and DDE Integration With Excel Spreadsheets

Quotestream Professional also has the ability to access the Windows Messaging Layer (Microsoft's RTD protocol), which links streaming real-time data to Excel spreadsheets and other third party applications.

RTD and DDE links extend market data access beyond Quotestream Professional, allowing you to manage unlimited client portfolios, import market data into third party applications, and run your own calculations through spreadsheets. QuoteMedia provides ready-to-use templates of commonly used datasets for MS Excel. However, any application that supports RTD and DDE can incorporate dynamically updating real-time intra-day data.

Real-time Alerts

Quotestream Professional provides real-time access to on-screen and email alerts. Users can be alerted on such criteria as when stocks reach a certain Price, Volume, Bid, Ask, Price Change, or when they hit their 52 Week High or Low. The user can also be notified when a filing is released, when a news release hits the wire, and can choose to receive an end-of-day summary. Alerts can be set to pop up on the user's screen, or the alert can be sent to the user's mobile device or email address. Users can also access their personal Alerts History, with dates and times of when alerts were triggered in the past.

User-Created Custom Workspaces / Easy Modification

Quotestream Professional is completely customizable, allowing you to create as many different workspaces or layouts as you need. The Workspace Wizard is extremely easy to use and allows for various designs in horizontal and vertical formats, with as few or as many internal modules as you like.

Each workspace can be modified at any time, allowing the user to change the various modules on the fly. Switching back and forth between workspaces or modules inside the workspaces is also very easy, giving you quick access to different information and the ability to switch back again.

Custom Color and Font Settings

Quotestream Professional may be viewed in various light or dark color layouts. Fonts can be increased in size for easier viewing, and color sets are provided for users who have problems with reds and greens. In addition, Quotestream Professional provides the ability for the user to alter how areas of the modules change when a stock goes up or down. Some users prefer to have text colors change, while others prefer to have the entire row background color change. All of these settings are custom to the user.

Equity/Fund/ETF Reports (Tear Sheets)

Quotestream Professional provides custom auto-generated reports that are printable or downloadable at any time. Reports can be modified to specify specific data sets as preferred. Example data sets include Company Profile, Stock Performance, Charts, News, Filings, Corporate Events, Share Information, Key Ratios, Analyst Ratings and Financials.

Trade A.I.

Quotestream Professional's Trade A.I. platform provides real-time trading ideas, analytics and advanced risk management with respect to options and equities trading. Trade A.I. provides nine different perspectives of calculating options probability, and allows the trader to build and analyze a trade in order to help mitigate risk.

Our proprietary statistical modeling engine also serves up profitable trading ideas around optionable stocks. It provides probabilistic analysis of a stock's past and future moves, options sentiment, fundamental information, as well as sector and industry analysis to deliver a full view of the underlying asset.

Trade Integration

Quotestream Professional was designed to integrate with any trading platform. As Quotestream Professional is already modular in design, adding trading modules can be done quickly and effectively, creating a custom interface to any trading and order management system. Users can access a trading interface from any module by clicking on a symbol, a Level 2 montage, or even a chart.

Trade links can also be incorporated into the main navigation, and custom trading modules can be created, providing quick access to buying, selling, checking open orders, reviewing account history, or accessing any other trade specific information.

Quotestream Mobile

Quotestream Professional also features the Quotestream Mobile App, available on Android and IOS tablets and phones (Apple App Store and Android Google Play). The app provides access to all the same Portfolios and Watchlists, as well as the same market data. The Desktop application and the Mobile app work in a co-companion relationship, where any changes made on one device immediately transfer to the other.
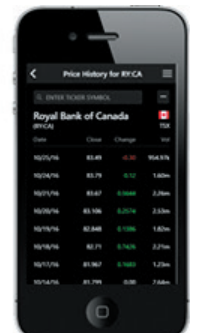
Quotestream Web

Quotestream Web is a new HTML 5, browser-based application by QuoteMedia. It delivers real-time streaming data to a browser. Much like Quotestream Professional, it features customizable workspaces, draggable modules, and provides feature rich portfolios, watchlists, charts, news, research and more.

Administration Area for Account Maintenance and Reports

QuoteMedia can provide access to QuoteMedia's Client Admin system. This provides real-time access to view user entitlements to product levels and data.

The Client Admin also provides monthly reports for submitting to the exchanges, indicating real-time streaming users, snap quote counts, and users that are capped. QuoteMedia's quote counting system caps users once they have reached their maximum threshold, so as to not incur unnecessary additional exchange fees.

Integration with 3rd Party Data and Information

Because Quotestream Professional was built with modular technology, the product has the ability to seamlessly integrate 3rd party information, data, trading systems, and even external applications. Companies with proprietary information or specific trading requirements can benefit from the advantages of total integration into a single application. The Quotestream Professional application can readily incorporate proprietary content.

Integration with Websites

This capability provides embedded access to Adviser sites for users that have login access. Quotestream Professional is also capable of single sign-on, for a seamless user experience between two systems.

Integration with Wealth Management

QuoteMedia has integrated Ndex System's scalable web-based portfolio management platform with Quotestream Professional. This brings to entitled users features including consolidated views of client accounts, easy performance measurement, custom reporting, automated compliance, CRM capabilities, as well as Fee Billing, Securities and Trade Order Management and comprehensive Reporting features for the Advisor, Branch Manager and Head Office.

Ndex is excited and pleased with the partnership and integration with QuoteMedia's Quotestream Professional. We know this relationship will be beneficial for our clients from both an economic and powerful functionality point of view. I believe with the power of both the Quotestream Professional product and our F-Engine, clients will find their productivity increased dramatically.

– Ndex Systems

Additional QuoteMedia Solutions

Web Content Solutions

QuoteMedia offers a wide range of content solutions, from simple scrolling stock tickers to full-scale market research portals. All of QuoteMedia's user-friendly products are completely customizable, easily embed directly into your web pages for seamless integration with your existing content, and comprise only a single line of code for quick installation and fast loading efficiency.

Quotestream Active Trader (for Non-Professional Retail Clients)

Quotestream Active Trader is the latest in streaming real-time portfolio management for retail, non- professional users. This robust application is the perfect solution for Banks, Brokerage firms, and Online Portals that want to provide their customers with streaming real-time market data, news, research, and full-featured portfolio management. The monthly non-professional per-user fee is very attractive for enterprise customers wanting to offer the best for their clients.
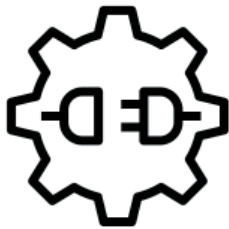
Additional QuoteMedia Solutions

Streaming Data Feeds

QuoteMedia's Data Feed technology is built on a scalable system that aggregates, manages, and streams information from the stock exchanges, and from other information and content feeds, to power all of our applications with the highest quality low latency data in the industry.

Quotestream Connect APIs

Quotemedia provides streaming and request-based data feed services for powering applications on a per-user basis. This entitlement driven product will stream data over an open socket to power 3rd party products.

XML and JSON Raw Data Delivery

QuoteMedia's on-demand data services offer a comprehensive array of XML and JSON request-based data. XML and JSON facilitate bringing financial data to third party applications or powering web interfaces. Clients can pull real-time data, fundamentals, news, research, historical data and much more.

Additional QuoteMedia Solutions

QuoteMedia's QMod - Full Content Modular Web Solutions

Contact Us

QuoteMedia has a variety of market data solutions. We would be happy to discuss all of your options, and help you find the solution that best fits your business model.

Please contact a QuoteMedia account representative and we will answer any further questions you might have regarding Quotestream Professional, or any of QuoteMedia's other financial information solutions.

Call Toll Free: 1 844 485-8200

Outside North America: 1 250 586-9943

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Visit Online: www.quotemedia.com