

IV Data Cloud User's guide

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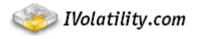
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Introduction

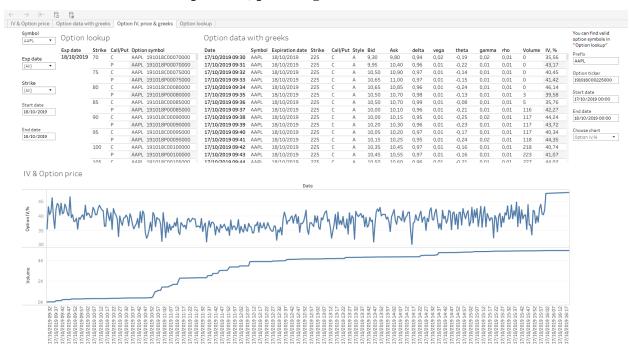
The IV Data Cloud service is designed for options traders' quick access to high frequency options database. It allows you to visualize data using most popular queries with predefined screens, tables and charts, and download options data based on selected filters. In this setup data coverage includes USA stocks, ETFs, indices and OPRA options with prices, volumes, OI, Implied Vol, Greeks and much more with up to 1 minutely frequency historical data. As of now, coverage includes 4,300+ underlyings and about 1 million options contracts. With the IV Data Cloud trader now can focus on just querying required data instead of arranging local storage for saving terabytes of data.

Data for new trading day appears now after 10pm EST time.

IV Data Cloud consists of four tabs: Data Visualization, Intraday Data Download, EOD Data Download.

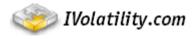


Data visualization



1.1 INTRADAY – US Option IV, price & greeks

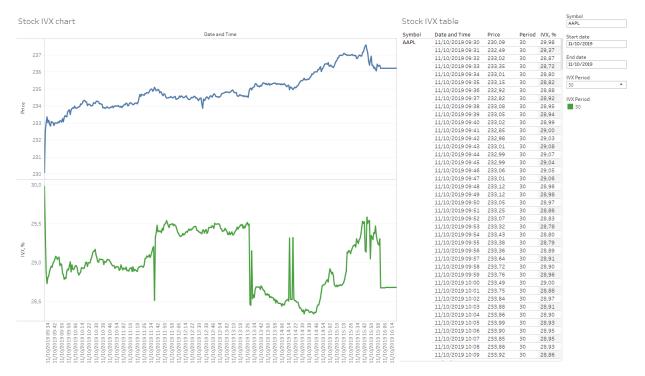
Start by searching for option tickers in «Option lookup» area. You can specify equity symbol, expiration dates, strikes, and start-end dates. In the nearby table you will find filtered option tickers. Copy the equity symbol to «Prefix» field, option symbol to the «Option ticker» and specify Start – End datetime fields. After doing this steps, option table and IV/Volume charts will be filled by relevant data. You can choose between option IV and option Price charts using «Choose chart» drop-down list.



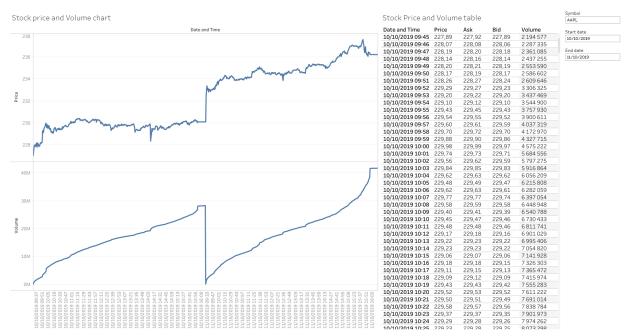
Derived Data LLC 2801 Centerville Road 1st Floor, PMB #610 Wilmington DE 19808-1609 Phone: (201) 275-1111

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1.2 INTRADAY – US Equity price & IVX



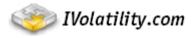
Specify equity ticker, start-end datetime fields and IVX Periods. IVX 30 is chosen by default. You can select multiple periods in «IVX Period» drop-down list.

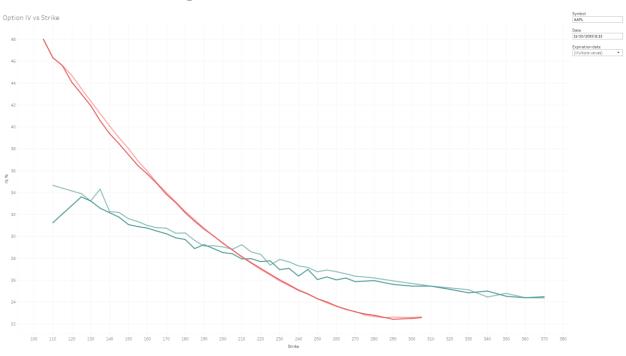


1.3 INTRADAY – US Equity price & volume

Specify equity ticker and start date/end date datetime fields.

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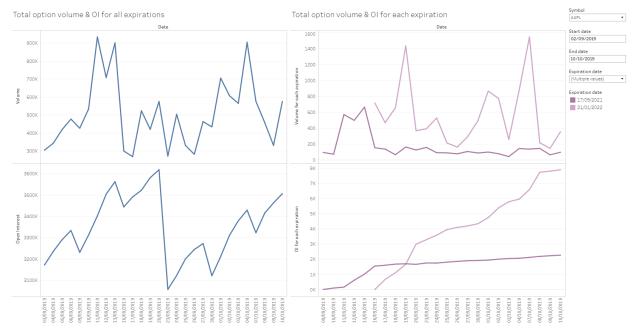




1.4 INTRADAY – US Options vol skew

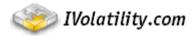
Select equity symbol, date & time and Expiration dates.

1.5 EOD – Total Option Volume & OI



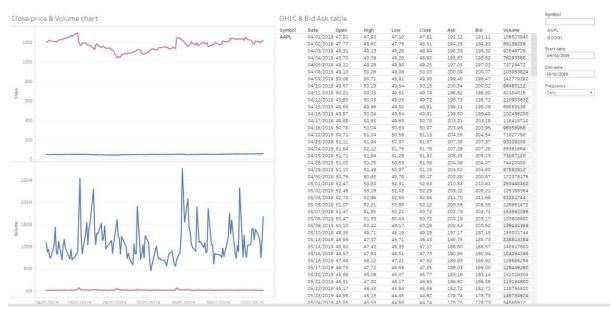
Select equity symbol, start/end dates and one or more expiration dates.

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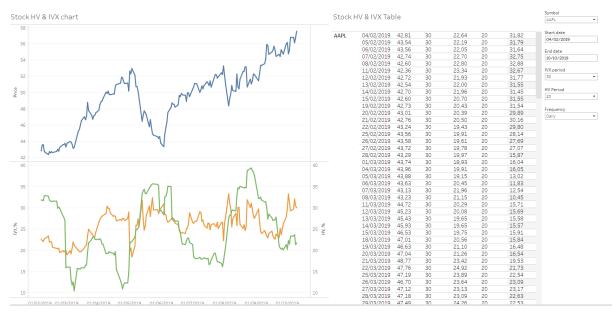
5



1.6 EOD – US Equity price & volume

Select equity symbol, start/end dates and Frequency.

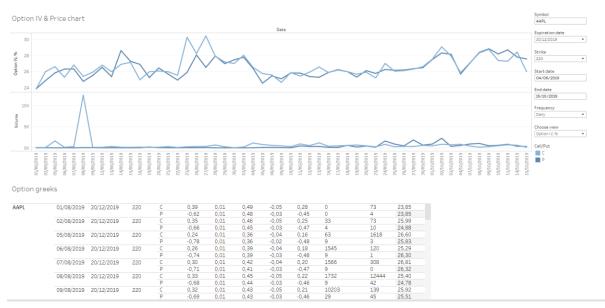
1.7 EOD – US Equity price, IVX, HV



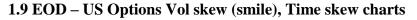
Specify equity ticker, start-end date fields and IVX/HV Periods. IVX 30 and HV 20 terms are chosen by default. You can select multiple periods in «IVX Period» drop-down list.

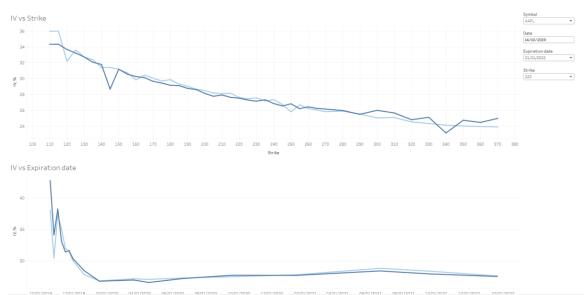




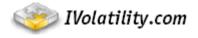


Specify equity ticker, start-end date fields, strike & expiration date. You can choose between two views: Option IV and Option Price.





Specify equity ticker, trading date, strike & expiration date



1.10 EOD – US Top options by volume & OI

USA Top 100 options by volume

USA Top 100 options by open interest

Date 08/10/2019

7

308 450	Т	01/17/2020	30	С	19 160	297 020	IEF	10/18/2019	96	P	0
285 306	Т	10/18/2019	34	С	45 472	283 124	EEM	10/18/2019	40	P	6 550
248 413	T	10/18/2019	36	С	42 039	279 077	EEM	12/20/2019	39	P	4 180
188 331	Т	10/18/2019	35	С	27 972	272 893	CHK	01/17/2020	7	C	0
142 437	Т	10/18/2019	33	С	23 992	263 690	HYG	12/20/2019	82	P	1
132 203	Т	01/17/2020	25	С	5 280	256 714	EEM	10/18/2019	40	С	704
127 304	Т	01/15/2021	25	С	5105	252 502	VIX	10/16/2019	25	С	32 658
108 707	SPY	10/09/2019	290	P	10 695	249 227	CLDR	06/18/2021	5	P	4
106 680	Т	01/17/2020	28	C	4 175	248 024	EEM	10/18/2019	42	C	2 882
102 458	XLV	10/25/2019	92	C	89	241 242	EEM	12/20/2019	37	P	2944
101 414	XLV	10/25/2019	91	C	373	236 825	FXI	01/17/2020	35	P	17 640
98 741	Т	01/15/2021	28	C	11 185	223 150	HYG	12/20/2019	84	P	2
71 327	SPY	10/09/2019	289	P	5966	221 692	EEM	12/20/2019	36	P	304
70 971	SPY	10/09/2019	291	C	5808	220 475	VIX	10/16/2019	23	C	3 2 7 1
70 453	BAC	10/11/2019	27,5	P	12 596	212 076	VIX	12/18/2019	21	C	92
63 727	SPY	10/09/2019	292	C	3 589	206 847	CVS	01/15/2021	90	C	41
63 672	FXI	10/18/2019	42	С	75 145	204 471	HYG	11/15/2019	84	P	3 479
63 034	Т	10/18/2019	32	C	8 262	196 698	HYG	11/15/2019	80	P	187
60 118	SPY	10/09/2019	288	P	9 5 2 5	196 168	SPY	12/20/2019	310	C	4853
54 742	SPY	10/09/2019	290	C	2 947	192 266	GE	10/18/2019	7	P	2 0 0 8
52 103	Т	11/15/2019	44	C	90	191 721	EEM	12/20/2019	35	P	3 9 2 4
50 592	SPY	10/11/2019	290	P	42 516	185 087	SPY	12/20/2019	268	P	998
49 227	VIX	10/16/2019	29	C	96 900	183 542	HYG	10/18/2019	82	P	0
48 655	SPY	10/09/2019	293	C	4710	178 930	VIX	10/16/2019	30	C	27 024
46 758	VIX	10/16/2019	16	P	120 915	178 499	BKLN	10/18/2019	22	P	0
44 766	SPY	10/09/2019	287	P	6 0 3 8	172 826	VIX	10/16/2019	28	C	7 332
44 202	Т	11/15/2019	33	С	5 965	171 281	VIX	10/16/2019	26	C	8 5 4 9
43 594	SPY	10/18/2019	280	P	122 758	171 178	EEM	12/20/2019	30	P	0
43 174	VIX	10/16/2019	15	P	169 135	170 143	SPY	12/20/2019	150	P	3
42 130	SPY	10/09/2019	285	P	8 868	170 124	BAC	01/17/2020	32	С	1 494
41 923	VZ	10/18/2019	57,5	C	7 873	169 603	HYG	12/20/2019	83	P	9
41 583	SPY	10/11/2019	289	P	13887	169 495	TWTR	01/17/2020	70	C	1
41 152	VZ	01/17/2020	50	С	9 988	169 493	XLF	01/15/2021	24	P	1
40 938	AAPL	10/11/2019	225	P	10 191	169 135	VIX	10/16/2019	15	P	43 174
39 246	SPY	10/09/2019	291	P	7 375	168 905	F	01/15/2021	7	P	1 537
38 307	CDV	10/00/2010	205	C	27 701	167 102	YLE	01/17/2020	23	D	2152

This dashboard contains top options by several volume and open interest.

1.11 EOD – US Top stocks

EOD US Top Stocks for 01/10/2019

Top option OL gainers

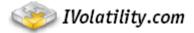
Top pric	e gainers			Top volatility gainers		Top optic	Top option volume gainers					
61,54	SPNX	1,3000	2,1000	65,94	STWD	0,268	24,0800	1 215 630	SPY	3 392 394	293,2400	
47,13	CGIX	3,0870	4,5420	58,22	E	0,511	30,2900	370 832	IWM	620 796	148,3700	
19,35	CFMS	1,8600	2,2200	57,42	FF	0,904	8,8692	271 605	AAPL	704 404	56,1475	
17,49	CNST	6,4600	7,5900	56,35	EZJ	0,649	34,2999	266 304	XLF	300 845	27,4100	
15,23	HTGM	0,6645	0,7657	55,70	FR	0,391	39,0900	131 203	VIX	374 938	18,5600	
12,93	PLG	1,4700	1,6600	53,76	RDNT	0,712	13,9000	111 710	GE	175 093	8,6100	
12,78	GERN	1,3300	1,5000	53,32	PFGC	0,615	46,3100	108 962	QQQ	662 331	187,2700	
12,00	HYRE	2,5000	2,8000	52,87	VNQI	0,136	58,2100	99 068	Х	135 928	11,9300	
11,71	STON	1,1100	1,2400	51,77	UBS	0,531	11,1400	98 025	HAL	112 366	18,5800	
11,18	DRIP	65,4167	72,7333	49,95	ACIA	0,145	64,9600	76813	UVXY	137 723	27,6200	

10P PIN	.e 1003el 3			Top volume	gamero			TOP OPC	ion organi	010	
-26,32	NERV	7,7500	5,7100	38 089 081	NOK	16 059 887	54 148 968	138 822	VIX	7 343 457	18,5600
-25,95	FELPQ	0,3083	0,2283	36 466 228	SPY	51 883 404	88 349 632	90 629	AAPL	3 210 686	56,1475
-25,39	REED	1,3000	0,9699	35 027 312	AAPL	104 233 760	139 261 072	85 054	HYG	3 817 976	86,6200
-22,01	LUMO	14,3100	11,1600	33 607 792	GE	35 307 352	68 915 144	84 067	NIO	2 086 098	1,3200
-17,77	ROYTL	1,9700	1,6200	30 712 806	SCHW	4 982 382	35 695 188	68 724	VXX	1 407 043	24,7900
-17,61	SURF	1,4200	1,1700	29 291 816	NIO	58 851 064	88 142 880	56 954	AMD	2 729 354	28,7600
-17,55	SSINQ	1,8800	1,5500	26 311 885	GOVT	4 548 939	30 860 824	55 703	BABA	1 648 907	165,1500
-17,44	AXSM	20,2400	16,7100	24 210 276	XLF	30 662 244	54 872 520	54 425	GDX	2 983 553	26,9200
-16,50	CYCN	12,1200	10,1200	23 076 972	VXX	24 020 284	47 097 256	47 953	BAC	3 960 524	28,4400
-16,25	HMNY	0,0040	0,0033	20 087 169	х	10 835 571	30 922 740	41 787	MSFT	2 028 202	137,0700

This dashboard contains top stocks by several parameters for a specific date.

Top volume gainers

Top price loosers



Intraday Data Download

On this tab you can choose between Equity Prices and Equity Options Prices datasets. Futures Prices and Futures Options Prices datasets will be added soon.

1) Equity Prices

+ Back to datas	et selection 🛛 🗧 Read Wizard Guide	
	Equity prices	
Instrument	Q Advanced search	
Select		Q
From	То	
		000
Frequency	Minute 🝷 🔹	Make an order

This dataset contains USA equity intraday data, including stocks, indexes and ETF's To make an order you need to fill «Instrument», «From» and «To» fields.

The «Instrument» field contains equity symbols. You can choose several instruments in one query. Advanced search can help you find stocks by company name.

The «From» and «To» datetime fields are needed to specify requested time range.

You can select frequency in corresponding drop-down menu. The settings button can be used to set custom minutes.

Example: 0,20,40

When you type anything in «Minutes» field, the value of «Frequency» will be set to «Custom»

The data column information is described in Table 1 below.

Table 1. Equity Prices dataset

8

Column	Comment	Туре
timestamp	Date and time	timestamp
stock_id	Internal stock identifier	int
Stock Symbol	Symbol of an underlying	string

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		Phone: (201) 275-1111
type	Equity type. 'S' for stock, 'I' for	string
	index, 'F' for fund, 'X' for FX	
	index	
currency	Currency	string
bidPrice	Highest price a buyer will currently pay for a security.	float
askPrice	Lowest price at which a seller will currently sell a security.	float
lastPrice	Last Price.	float
bidDateTime	Last bid date	timestamp
askDateTime	Last ask date	timestamp
lastDateTime	Last trade date	timestamp
bidSize	The minimum quantity of a security a buyer is willing to purchase at a specified bid price.	int
askSize	The amount of a security that a seller is offering to sell at the ask price	int
lastSize	Last trade size	int
bidExchange	Last exchange for bid	string
askExchange	Last exchange for ask	string
lastExchange	Last trade exchange	string
volume	Stock Volume is the actual number of stock shares traded on a particular day	int
calcTimestamp	Date and time of the last changing of the row	timestamp



2) Equity Options Prices

← Back to dataset selection 🛛 🔳 Read Wizard Guide

Equity Options prices

Instrument		Q Advanced s	search			
Select						Q
From		То)			
Expiration Da	te	Strike		Call/P	ut	
Select	•	Select	•	 All 	🔵 Call	O Put
Frequency	Minute	-	÷		Make ar	n order
,						

This dataset contains USA equity options intraday data.

Here you can also specify certain expiration dates, strike and option type. However,

these fields are not required.

The data column information is described in Table 2 below.

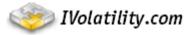
Table 2. Equity Option Prices dataset

Column	Comment	Туре
t_date	Date and time	timestamp
stockid	Internal stock identifier	int
stock_symbol	Symbol of an underlying	string
expiration_date	Option expiration date	timestamp
strike	Option strike	float
call_put	Call (C) or Put (P)	
style	Option style. 'E' for European, 'A' for American	string
option_symbol	Option ticker	string

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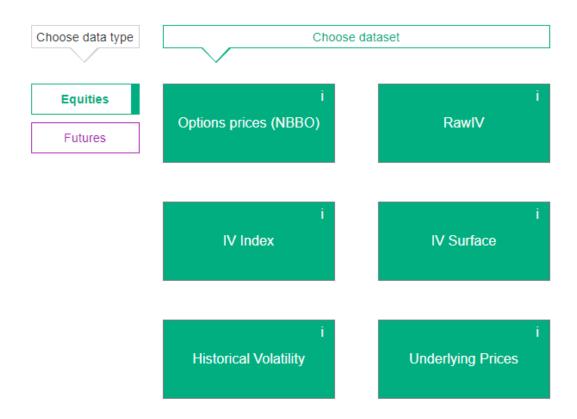
		Phone: (201) 275-1111
price_bid	Highest price a buyer will currently pay for a security.	float
price_ask	Lowest price at which a seller will currently sell a security.	float
Date_bid	Last bid date	timestamp
Date_ask	Last ask date	timestamp
Size_bid	The minimum quantity of a security a buyer is willing to purchase at a specified bid price.	int
Size_ask	The amount of a security that a seller is offering to sell at the ask price	int
Exchange_bid	Last exchange for bid	string
Exchange_ask	Last exchange for ask	string
volume	Option Volume	int
iv	Implied volatility is equal to pre_iv (see below) in cases where it was calculated or interpolated linearly between strikes and linearly by variance between expirations for missing points based on pre_iv	float
price_opt	Underlying price used in calculations, this price is synchronized with options bid/ask prices.	float
delta	Delta. (Greek) Change of an option's price relative to a \$1 change in the underlying's price.	float
gamma	Gamma. (Greek) Change of Delta relative to a \$1 change in the underlying's price.	float
theta	Theta. (Greek) Loss of an option's value relative to a one day decrease in time to expiration (time decay).	float
vega	Vega. (Greek) Change of an option's price relative to a 1% (absolute) change in its implied volatility.	float
rho	Rho. (Greek) Change of an option's price relative to a 1% (absolute) change in its interest rate.	float
pre_iv	Implied volatility calculated directly from option price, if	float



		Thone: (201) 275 1111
	volatility is not calculated it is set to "-1"	
implied_yield	Implied Yield is calculated by parity formula and is used in volatility and greeks calculations for indexes and ETFs	float
calc_date	Date and time of the last changing of the row	timestamp

End of Day Data Download

At this page, you can choose one dataset from the six available: Options Prices, RawIV, IVIndex, Vol Surface by Moneyness, HV and Underlying Prices by clicking on the dataset name. You can see dataset description and prices using "i" button. Also you can switch between equities and futures using the "Type" field.



When you have chosen the dataset you can to start to put together your order. Choose requires instruments type in a list of instruments in the search field. In case the ticker is not found, you can use our 'Advanced search'.

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Then enter start ('From' field) and end ('To' field) dates for your ticker list; they are applied to all names in your list (unless one of them has a later start date).

Earliest options data start November 2000 for US/Canada, Europe starts 2000 but many markets were added later, Asia starts November 2008. After the earliest start date, we usually have options data since the very first day they appeared in the market.

In some cases (when choosing IVIndex) you may see a start date for US May-1999, indeed, IVIndex 30 days starts in 1999, while other terms (60 to 180) start Nov-2000.

Earliest US stock prices data start in 1995 (this applies only to HV data).

Also you can choose daily, weekly or monthly (first/last business day) data (in the 'Frequency' field).

If the charge goes through, you will see the following notice:

Order successful! ×

Thank you for your data request!

You can check it's status in "My Downloads tab"

If there are any problems with your order, you will be given a notification and would need to contact us at support@ivolatility.com.

All your downloads are saved in "My Downloads" page. You can always re-load data later for free:

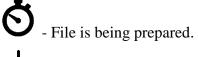
My Downloads

ALL INTRADAY	EOD						
Order date	Dataset	Symbol	Start Date	End Date	Frequency	Contract	Download
2020-11-13 09:19	INTRADAY Equity Prices	A	2020-11-10 18:19	2020-11-11 18:19	1 minute	-	¢
2020-11-13 09:16	INTRADAY Equity Prices	A	2020-11-10 18:14	2020-11-10 18:14	5 minutes	-	¢
2020-11-13 09:15	INTRADAY Equity Prices	A	2020-11-10 18:14	2020-11-10 18:14	5 minutes	-	¢
2020-11-13 08:47	EOD Underlying Prices	TSLA:NASDAQ	2020-10-30 00:00	2020-10-30 00:00		-	0
2020-11-13 08:01	EOD Options prices (NBBO) with volume and open interest	NEE:NYSE	2020-11-10 00:00	2020-11-12 00:00	Daily	-	¢
2020-11-13 07:12	EOD Options prices (NBBO) with volume and open interest	GOOG:NASDAQ	2020-11-10 00:00	2020-11-12 00:00	Daily	-	0
2020-11-13 07:08	EOD Options prices (NBBO) with volume and open interest	AAPL:NASDAQ	2020-11-10 00:00	2020-11-12 00:00	Daily	-	0
2020-11-13 06:58	EOD Options prices (NBBO) with volume and open interest	AAPL:NASDAQ	2020-11-10 00:00	2020-11-12 00:00	Daily	-	¢
2020-11-13 06:51	EOD Options prices (NBBO) with volume and open interest	AAPL:NASDAQ	2020-11-10 00:00	2020-11-12 00:00	Daily	-	0
2020-11-11 07:51	EOD Options prices (NBBO) with volume and open interest	SPX:CBOE	2020-11-10 00:00	2020-11-10 00:00	Daily	-	0

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On this tab you can check the status of your orders and download resulting files.

Use All/Intraday/End of Day radio buttons to filter your history queries. The «Download» column of the table indicates the status of your order:



► File is ready. Click this button to start downloading. The resulting file has .csv format. Note, that if your query contains more than 100 000 records, then the file will have gzip compression. So, to get the csv data, you need to unpack the archive. You can use such compression tools like WinRar (https://www.win-rar.com/start.html?&L=2), 7-zip (https://www.7-zip.org) or others. Maximum size of file ~=30 Mb gzipped, 200 Mb unpacked.

- File is expired. By clicking on this button you will make a new order with same filters.

By clicking on download icon, the download will start.

Should you require any further details regarding IV Data Cloud service, please, don't hesitate to contact us. Customer Service e-mail: support@ivolatility.com