

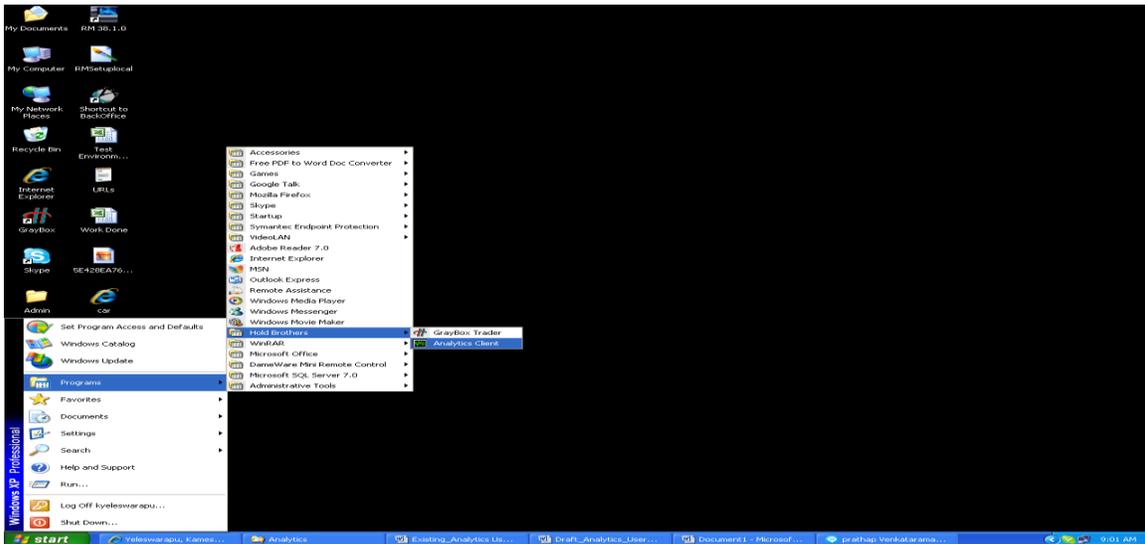


1. Overview

<This section has been intentionally left blank >

2. Getting Started

❖ Click on the Start Menu → Programs → Hold Brothers → Analytics Client



- ❖ Login Screen appears
- ❖ Enter the Server Name: analytics1.hold.com
- ❖ Port is defaulted to 35009
- ❖ Enter the login Name: <Login Id>
- ❖ The login screen is shown below

Note: Graybox Login/Trader ID and password are required



- ❖ After entering the <password>, hit "Connect"
- ❖ Notice the traffic light turning to  Color denoting that the login is successful
- ❖ Now the login screen looks like the one below:



Note: If logon fails, please check the IP address and port number are correct and try again

3. Analytic Views

- ❖ Go to Action → Open
- ❖ The following screen shows the various Analytic Views that are available for the user



3.1 Types of Analytic Views

Analytic Client provides 26 types of analytic views. For each view, user can select different markets, like NYSE, NASDAQ and AMEX, except for Firm Executions view. User also can use set filters to set minimum volume, minimum price, symbols and ECNs (Firm Executions only). Each of the Analytic Views is described below along with screen shots.

3.1.1. Cross Locked Display

This view shows the current Crossed / Locked symbols and history list. On Crossed / Locked Symbols list, it shows the time at which the symbol started Crossed / Locked, current "Bid" and "Ask" price and Crossed / Locked values. On the history list, it shows the last Crossed / Locked symbols and the time they left Crossed / Locked status.



TIME	SYM	BID	ASK	CROSS	HISTORY
15:44:20	TECD	47.05	47.00	0.05	EMLX 15:44:20
14:42:13	VIGN	3.83	3.82	0.01	ONIS 15:44:20
10:47:50	ALSC	11.75	11.75	0.00	MSCC 15:44:19
10:40:21	ERMS	0.73	0.73	0.00	TECD 15:44:18
10:47:52	HERBA	14.20	14.20	0.00	PFGC 15:44:17
10:50:59	KOPN	9.85	9.85	0.00	RARE 15:44:17
10:46:14	OAKT	14.03	14.03	0.00	AMZN 15:44:16
15:44:14	ORCL	14.39	14.39	0.00	ALTR 15:44:16
15:01:09	VITR	5.29	5.29	0.00	EMLX 15:44:15
					MSFT 15:44:15
					CSCO 15:44:15
					RSTN 15:44:12
					CSCO 15:44:12
					CCMP 15:44:12
					FMER 15:44:12
					NYFX 15:44:12
					CSCO 15:44:11
					MSCC 15:44:11
					OSIS 15:44:10

3.1.2 Highs

This view shows new intra day highs for all stocks. This view displays the stock symbol, number of times it hits highs and the price that creates the new highs. New highs are displayed in green.

HIGH			
CPEX	22	+1.24	16.95
MRNA	1	+0.02	1.07
CPSS	2	+0.03	1.86
RECN	31	+0.50	17.62
VETS	2	+0.09	0.3998
KOOL	2	+0.02	0.6355
ZVZZT	10	+94001.2500	501.1
ZVZZT	11	+94001.5000	502.1
LHCG	13	+0.25	33.22
SYNO	10	+0.20	15.85
CINF	16	+0.27	29.27
TSPT	4	+0.15	8.09

3.1.3 Lows

This view shows new intra day lows for all stocks. This view displays the stock symbol, number of times it hits lows and the price that creates the new lows. New lows are displayed in red.



Lows - Nasdaq			
LOW			
PETD	3	-0.32	23.39
CTCT	26	-0.57	22.71
TRAK	10	-0.17	18.435
ANGO	4	-0.08	15.58
RSTI	16	-0.41	22.31
ZOLT	4	-0.08	10.45
CY	34	-0.32	12.00
MSCC	8	-0.16	16.58
WPPGY	17	-0.44	48.63
PACR	20	-0.29	6.25
PACR	21	-0.30	6.24
PACR	22	-0.31	6.23

3.1.4 Highs & Lows

This view shows new intra day highs and lows for all stocks. This view displays the stock symbol, number of times it hits highs and lows and the price that creates the new highs and lows. New highs are displayed in green. New lows are displayed in red.

Highs and Lows - Nasdaq							
HIGH			LOW				
LAWS	4	+0.13	16.17	PTEN	63	-0.57	13.85
ACTU	4	+0.06	5.90	BEXP	64	-0.70	16.37
GNCMA	8	+0.10	5.97	PWLT	32	-0.36	27.01
ZVZZT	38	+94017.0000517.0	17.0	EGI	15	-0.24	11.33
ZVZZT	37	+94016.7000517.0	17.0	EGI	14	-0.21	11.36
SAFT	4	+0.14	38.22	ULTI	3	-0.41	34.21
SAFT	3	+0.12	38.21	ATML	8	-0.08	5.15
ZVZZT	36	+94016.3000517.0	17.0	PAAS	47	-0.54	23.63
ZVZZT	35	+94016.2000516.0	16.0	ASBC	9	-0.11	13.67
ZVZZT	34	+94016.0000516.0	16.0	ZBUS	9	-0.30	31.5201
AMAG	31	+0.89	36.22	DTSI	22	-0.46	35.24
PDII	5	+0.09	5.68	DTSI	21	-0.44	35.27
PDII	6	+0.12	5.71	URBN	1	-0.01	35.97
VSCP	1	+0.02	1.19	GRMN	46	-0.85	36.60
VSCP	2	+0.03	1.20	QCLN	5	-0.08	15.31
PDII	7	+0.14	5.73	STLD	11	-0.13	17.82
ZVZZT	32	+94015.3000516.0	16.0	FFIN	4	-0.08	53.17
ZVZZT	33	+94015.2000516.0	16.0	ISIL	11	-0.14	15.451
RECN	35	+0.54	17.66	SCHN	49	-1.23	49.861
PDII	8	+0.15	5.74	WPSL	8	-0.13	20.225

3.1.5 Inside Market Alerts



This view shows the real time inside market alerts. They are the inside market price of the "Bid" or "Ask" of a stock. This view displays the following information:

- Stock Symbol
- Bid
- Ask
- Price Change

The "Bid" and "Ask" are green in color if the inside market price change is a High Bid/Lift Offer (price increase) or red in color if the inside market price change is Drop Bid/Low Offer (price decrease). The Symbol and Price change are highlighted when a stock's price change reaches user's alert level (\$2.50 for gain and -\$2.50 for loss), green is for gain and red is for loss

Symbol	Bid	Ask	Last - Close
INZST	363.18	8000.00	543.90
MJZST	30.84	8000.00	50.60
BIDU	563.81	564.09	2.86
ATLS	33.70	33.72	0.85
QNST	16.21	16.67	0.79
SASR	14.10	14.14	0.77
AEPI	32.30	32.47	0.57
HMNA	2.92	2.94	0.44
RDWR	20.29	20.30	0.35
RLRN	15.36	15.54	0.33
FBNC	15.09	15.22	0.24
MSSR	9.64	9.75	0.18
IBOC	24.51	24.55	0.13
RBCAA	17.36	17.52	0.13
PURE	2.13	2.14	0.12
REXI	5.21	5.27	0.11
DCTH	6.27	6.29	0.09
SYMM	6.24	6.30	0.09
DRIV	30.29	30.35	0.06
BMRN	22.68	22.70	0.01

3.1.6 Top Volume

This view shows the real time data of the most heavily traded stocks. The Symbol and the Current Volume of the stocks are displayed



Symbol	Volume
DPTR	32,343,062
SIRI	25,380,640
QQQQ	14,467,725
INTC	14,454,894
ETFC	11,167,492
QCOM	10,148,169
HBAN	9,764,779
MSFT	8,571,058
PALM	7,183,757
ORCL	6,555,970
ATVI	6,498,654
TEVA	6,495,748
MU	6,346,169
DELL	6,093,180
CSCO	5,503,548
AMAT	5,345,702
NVDA	4,132,236
FNSR	3,736,075
LVLT	3,728,961
AAPL	3,711,278

3.1.7 Sales

This view shows the real time stocks that are trading the most in the market right now. This view displays symbol and print bar.

Prints are cumulated over the last 12 seconds. The number of prints over the last 12 seconds determines the length of the bar and the speed of the prints determines the intensity of the color of the bar

Symbol	Sales
EGLE	
SQNM	
USATW	
WERN	
ARIA	
CY	
RIMM	
CMCSK	
LAMR	
MU	
GILD	
JBLU	
BRCM	
DELL	
QCOM	
BUCY	
COST	
CTXS	
ORCL	
EXPD	



3.1.8 Top Range

This view shows the real time stocks that are having the biggest trading price change during the day in the market right now. The daily range is the price difference between the intra day's highest and lowest trade prices. This view displays symbol and intra day price range

Symbol	Range
ZVZZT	100399.00
ZXZZT	1999.50
MYLNP	8.19
BIDU	7.69
CME	5.18
ATRI	5.175
GOOG	5.04
ISRG	4.80
CRAI	4.67
STRA	4.6399
MITSY	3.38
PCLN	3.28
HSII	2.97
DECK	2.9099
MDTH	2.789
GMCRC	2.50
FCNCA	2.44
ROST	2.40
UHAL	2.38
AAPL	2.21

3.1.9 Top Close Change

This view shows the real time stocks that are having the biggest close change in the market right now. This view includes 2 parts (top gain and top loss). It displays symbol and change (last trade price – close price). The gains are displayed in green and the losses are displayed in red.



Top Close Change - Nasdaq			
Symbol	Last - Close	Symbol	Close - Last
GULF	14.21	MIL	105.52
HBANP	9.40	NYF	104.96
PHMD	9.27	SNP	82.27
ULCM	7.20	TM	79.30
DSCI	5.08	IOC	67.71
LTRX	3.24	SLG	57.60
BFLY	2.45	VHT	56.50
DJCO	2.19	PVH	54.18
ASUR	2.10	FpS	50.05
TEVA	1.90	TWC	49.02
STRA	1.84	CFL	42.09
BIDU	1.77	GG	39.80
GOOG	1.74	SNE	37.80
SPMD	1.67	KF	36.84
SCVL	1.53	SZK	36.48
OVRL	1.50	CZI	36.44
MDTH	1.45	XES	31.09
APOL	1.38	TDS.S	30.49
LBIX	1.29	GAT	30.16
CAGC	1.25	DRU	27.86

3.1.10 Top Open Change

This view shows the real time stocks that are having the biggest open change in the market right now. This view includes top positive change and top negative change. It displays symbol and change (last trade price – open price). The positive changes are displayed in green and the negative changes are displayed in red

Top Open Change - Nasdaq			
Symbol	Last - Open	Symbol	Open - Last
BIDU	3.26	CME	4.74
GOOG	3.13	ISRG	1.90
HSII	2.41	PLCM	1.51
CAGC	1.75	SXCI	1.49
APOL	1.19	GMCR	1.45
LECO	1.11	AEPI	1.33
CLNE	1.08	VLTR	1.29
DMND	1.04	IBKC	1.16
CTXS	1.01	HITK	0.87
STBA	0.94	KONG	0.78
CAAS	0.80	ITRI	0.77
WTFC	0.75	CRAI	0.75
AVAV	0.72	VRTX	0.71
CHRW	0.71	TEVA	0.71
FAST	0.69	GRMN	0.68
RGLD	0.69	NILE	0.60
AMZN	0.68	SMCI	0.59
TSCO	0.67	NVDA	0.57
ESLT	0.65	JST	0.55
QCOM	0.63	OTEX	0.55



3.1.11 Top Present Change

This view shows the real time stocks that are having the biggest changes in percentage based on close prices in the market right now. This view includes 2 parts (top gain and top loss). It displays symbol and change in percentage (last trade price – close price then divided by close change). The gains are displayed in green and the losses are displayed in red

Symbol	Gainer	Symbol	Loser
DPTR	33.09%	RAE	100.00%
QUOT	26.20%	RCC	100.00%
CABLW	23.33%	SDD	100.00%
PRWT	21.62%	SDM	100.00%
GTIM	16.50%	SJL	100.00%
TXCC	15.14%	SLG	100.00%
MDTH	15.10%	SNE	100.00%
CIGX	15.00%	SNP	100.00%
MBHI	14.51%	SSN	100.00%
PCBC	14.07%	SZK	100.00%
VYFC	13.58%	TDA	100.00%
FOOD	12.86%	TDS.S	100.00%
GFLB	12.36%	TLI	100.00%
COBK	12.24%	TM	100.00%
APPA	12.17%	TWC	100.00%
FFBH	11.87%	VHT	100.00%
FFNM	11.48%	WGO	100.00%
FSNM	11.34%	XES	100.00%
DENN	10.94%	XFN	100.00%
CTBK	10.68%	XNN	100.00%

3.1.12 Bid and Ask Scan

This view catches large size best bids and asks. The minimum size is 5000 shares. It displays Symbol, Shares (in 100s), Bid/Ask price and market maker. The bid is in green and ask is in red. If the current market is locked or crossed, the line will be highlighted (green for bid or red for ask). A Bid and Ask scan filter dialog can be invoked to set minimum volume, minimum price, minimum spread, minimum size, symbols and ECNs. [The filter is discussed in Customize Views section](#)



Symbol	Share	Bid/Ask	MM	Time
AMGN	18	57.88	ARCX	12:16:03
ATPG	35	18.50	ARCX	12:16:03
BHI	1	49.90	BAT	12:16:03
BHI	3	49.92	BAT	12:16:03
CTEL	6	11.71	ARCX	12:16:03
EQT	2	42.67	BAT	12:16:03
EQT	1	42.69	BAT	12:16:03
FNDT	1	13.42	ARCX	12:16:03
FNG	14	14.52	ARCX	12:16:03
GOLD	5	74.94	ARCX	12:16:03
GOOG	1	565.64	ARCX	12:16:03
LAWS	3	15.75	ARCX	12:16:03
MJE	2	44.37	BAT	12:16:03
MJE	3	44.40	BAT	12:16:03
ORIT	1	16.29	ARCX	12:16:03
PFBX	1	15.60	ARCX	12:16:03
PTEN	17	13.63	ARCX	12:16:03
RIDN	8	18.23	ARCX	12:16:03
WAVX	1	3.73	ARCX	12:16:03
WEDC	1	5.43	ARCX	12:16:03

3.1.13 Price Alerts

User can use this view to set the below and above thresholds for stocks. If price is greater than/equal to the above price, the symbol and price are highlighted in green. If price is less than/equal to the below price, the symbol and price are highlighted in red. By default when a new Price Alerts view is open. It picks 20 default symbols and set the below and above based on the current price (minus 0.2 for the below and plus 0.2 for the above). User can use the Filter dialog to add/delete symbols, set/modify the below and above

Symbol	Tick	Below	Above	Price
LFUS	▲	38.13	38.53	38.31
RCII		23.07	23.47	23.26
EVEP		31.3294	31.7294	31.44
EVEP	▼	31.3294	31.7294	31.44
PSID	▲	1.2801	1.6801	1.50
PRWT		0.5584	0.9584	0.76
SEIC		20.64	21.04	20.83
SEIC	▼	20.64	21.04	20.83
LOGM		19.701	20.101	19.97
LOGM	▼	19.701	20.101	19.97
SSRI		17.67	18.07	17.88
SSRI	▲	17.67	18.07	17.88
YHOO		16.222	16.622	16.43
CAMT		2.63	3.03	2.83
CY		11.6893	12.0893	11.89
YHOO		16.222	16.622	16.425
SOMX		6.73	7.13	6.65
SOMX		6.73	7.13	6.67
SOMX		6.73	7.13	6.655
TRST		6.08	6.48	6.28



3.1.14 Firm Executions

This view shows the real time firm wide executions in Hold Brothers, Inc. The buy executions are displayed in green and the sale executions are displayed in red. The executions are highlighted if they are short sales. This view displays the information about Symbol, Quantity, Price, Side, Contractor and Time.

Symbol	Qty	Price	Side	Contra	Time
LINE	500	27.00	s	BATS	11:46:31
NFX	200	51.75	B	NSDQ	11:46:30
NFX	100	51.75	B	NSDQ	11:46:30
GS	500	176.47	B	HBES	11:46:30
PVG	100	20.47	s	ARCA	11:46:31
ETR	100	79.61	s	XBOS	11:46:30
ETR	100	79.61	s	XBOS	11:46:30
ETR	100	79.61	s	XBOS	11:46:30
ETR	100	79.61	s	XBOS	11:46:30
VXX	200	22.20	s	ARCA	11:46:30
ETR	100	79.61	s	XBOS	11:46:30
ETR	100	79.61	s	XBOS	11:46:30
ETR	100	79.61	s	XBOS	11:46:30
ETR	100	79.61	s	XBOS	11:46:30
ETR	100	79.61	s	XBOS	11:46:30
ETR	100	79.61	s	XBOS	11:46:30
MI	100	8.00	B	HBES	11:46:30
CVBF	100	9.93	B	BATS	11:46:30
ETR	100	79.61	s	XBOS	11:46:30
ALL	200	31.40	s	EDGA	11:46:30
TSFG	700	0.71	B	XBOS	11:46:30
ETR	100	79.61	s	XBOS	11:46:30

Note: Special quote entitlements are required to view this feature.

3.1.15 Imbalances

In financial market, imbalances there are too many "Sell" orders or "Buy" orders due to some major announcement for that company stock. This Imbalance view shows the market imbalance data for daily basic with opening (before market opens) and closing (after 3:40 PM till market closes) messages. There are 3 columns Symbol, Volume and Status available in this view.

Symbol: Stock equity symbol for which imbalance occurs.

Volume: Imbalances quantity in shares

Status: displays the percentage imbalances or status with M (Market Imbalances) and MOC (Market On Close).



If it is a buying imbalance then it is shown in green color data and if it is a selling imbalance it is shown in red color. (Need correction)

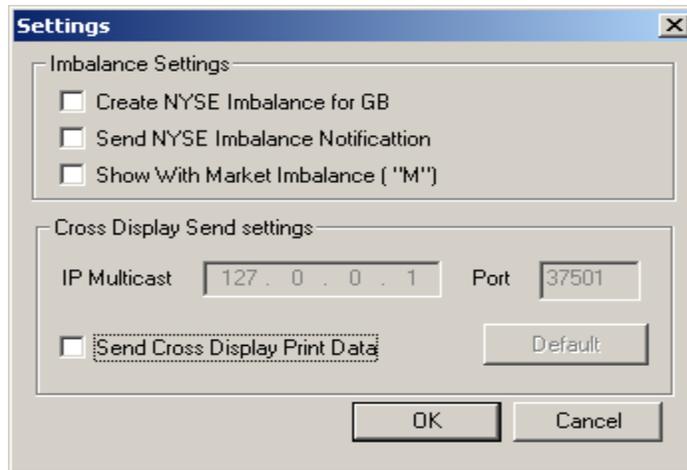
Symbol	Volume	Status
GCH	0	M
BOE	0	M
HTH	0	M
BAC\$B	0	M
SGF	0	M
ASP	0	M
TCB\$A	0	M
HF	0	M
VIT	0	M
AGD	0	M
DPO	0	M
BAC\$C	0	M
LGP	1,300	M
TKS	36,900	M
SPG\$I	1,500	M
HCP	33,300	M
AOD	73,800	M
ASA	9,000	M
PC	0	M
BAC\$W	0	M
AWD	0	M

3.1.16 Crossed Prints

- ❖ This feature helps the user to access the cross display data to manipulate in any other application developed in different language like Java, VB, and MFC etc. or in MS Excel, after connecting to the Analytic Client application.
- ❖ Following are the steps how to use the added feature:
 - Open the Analytic Client main dialog (login dialog)
 - Go to Action menu. Select Setting menu and click as in figure below.



- ❖ The following Settings dialog appears.



- ❖ In order to send cross display print data to third party application, the user must check the check box option "Send Cross Display Print Data" and then press OK button. The default IP and Port is 127.0.0.1 (local host) and "37501" respectively.
- ❖ In order to get cross display print data in the 3rd party application, the user must open at least one Cross Display window with Select Market – All option with caption "Cross Prints" as shown in figure.



Symbol	Qty	Price	Bid	Ask	Delta	Time
MU	5	10.11	10.10	10.11	0.01	12:10:35
TFSL	1	13.35	13.36	13.37	0.01	12:10:35
CECO	1	32.28	32.29	32.30	0.01	12:10:35
AMLN	1	22.48	22.46	22.47	0.01	12:10:35
AM5C	1	26.12	26.11	26.11	0.01	12:10:34
BMRN	1	22.76	22.77	22.78	0.01	12:10:34
AJXL	1	31.79	31.80	31.81	0.01	12:10:34
FOSL	1	38.87	38.88	38.89	0.01	12:10:33
SOMX	1	7.15	7.03	7.04	0.11	12:10:33
CROX	3	7.85	7.86	7.87	0.01	12:10:33
NIHD	2	40.72	40.73	40.74	0.01	12:10:33
JOYG	1	55.97	55.98	56.00	0.01	12:10:33
YRCW	6	0.45	0.45	0.45	0.00	12:10:32
CSIQ	1	21.63	21.64	21.65	0.01	12:10:32
ARIA	1	3.36	3.35	3.35	0.01	12:10:32
CBRL	1	47.16	47.17	47.19	0.01	12:10:31
BBBY	3	43.39	43.40	43.41	0.01	12:10:31
ORCL	2	25.42	25.42	25.43	0.01	12:10:30
GRMN	1	36.28	36.26	36.27	0.00	12:10:29
DROOY	2	4.98	4.94	4.97	0.01	12:10:29

❖ A sample MFC based test application which displays the Cross Display data is shown below:

Symbol	Quantity	Price	Bid	Ask	Delta	Time	Status
BKC	1	18.44	18.35	18.40	0.04	17:03:59	UP
FAS	3	76.32	76.09	76.28	0.04	17:05:32	UP
SPY	40	103.19	103.16	103.18	0.01	17:11:30	UP
RRY	2	29.37	29.38	29.44	0.01	17:13:14	UP
SDS	1	43.04	43.05	43.06	0.01	17:13:22	UP
INO	3	2.16	2.10	2.15	0.01	17:08:25	UP
ZVZZT	1	0.01	0.00	0.00	0.01	17:08:41	UP
NVAX	1	5.22	5.24	5.22	0.02	17:09:41	UP
HMY	1	9.32	9.28	9.31	0.01	17:11:20	UP
SLV	15	14.05	14.05	14.04	0.01	17:06:33	UP
FRE	2	1.99	1.99	2.00	0.00	17:06:33	UP
FAZ	5	23.90	23.92	23.97	0.02	17:13:50	UP
RBS	2	17.50	17.51	17.56	0.01	17:14:50	UP
JEC	3	47.07	47.08	65.00	0.01	17:15:59	UP

IP: 127 . 0 . 0 . 1 Set IP & Port Filtered Data

Port: 37501 Cancel OK

❖ In the test application, user can insert IP as 127.0.0.1 and port no as 37501 and press "Set IP & Port" button.



- ❖ There is a check box (Raw Data), if unchecked; user can see any update to the same symbol data in a different row. If checked (Filtered Data) the user can see the updated value to the symbol in the same row.

3.1.17 Pre/Post Market Print

This feature is added from Version 8.5.2 onwards. This feature helps the user to access the Pre and Post market print data. The pre market data comes before market opens (morning 8:00 AM to market opening time 9:30 AM) and the post market data comes after the market closes.

Symbol	Qty	Price	Bid	Ask	MarketType	PrintTime
EWZ	13	58.66	58.66	58.69	AMEX	09:21:58
USO	1	36.52	36.51	36.52	AMEX	09:21:58
BJS	1	17.13	17.12	17.13	NYSE	09:21:58
FNM	1	1.91	1.90	1.91	NYSE	09:21:58
BHI	1	36.60	36.60	36.65	NYSE	09:21:58
QLD	5	46.12	46.12	46.13	AMEX	09:21:57
FAZ	2	23.92	23.93	23.94	AMEX	09:21:57
MGM	10	8.50	8.50	8.54	NYSE	09:21:57
EMC	4	15.83	15.83	15.84	NYSE	09:21:56
CVX	2	69.90	69.89	69.92	NYSE	09:21:56
C	5	5.04	5.04	5.05	NYSE	09:21:56
FAS	1	76.56	76.56	76.61	AMEX	09:21:56
WFC	1	27.01	27.00	27.01	NYSE	09:21:56
VG	5	1.56	1.56	1.56	NYSE	09:21:55
IWM	1	57.52	57.52	57.53	AMEX	09:21:55
ETFC	10	1.72	1.72	1.73	NASDAQ	09:21:54
BAC	3	17.63	17.62	17.63	NYSE	09:21:54
EWT	100	10.86	10.82	10.84	AMEX	09:21:54
ATVI	38	12.00	11.96	12.00	NASDAQ	09:21:53
AIG	1	45.26	45.24	45.26	NYSE	09:21:53

3.1.18 Bid/Ask Spread

This feature helps the user to access the Bid/Ask Spread market data in market time. Currently it displays top 20 spreads in descending order from top to bottom. There were 7 columns named Symbol, Bid, Ask, Spread, Time, #Prints and Last Print showing the respective data.

- ❖ **Symbol:** Displays the stock security symbol.



- ❖ **Bid:** Displays the price at which someone will buy current day trading position.
- ❖ **Ask:** Displays the price at which someone will sell the position required.
- ❖ **Spread:** The gap between Bid and Ask. (Spread = (Ask price – Bid Price))
- ❖ **Time:** time at which a new spread happens. This field is updated with the time at which a new spread value comes.
- ❖ **#Prints:** The no of prints comes since the last spread arrives. Reset to 0 if spread time changes or a new spread arrives.
- ❖ **Last Print:** Displays the last traded value or last execution price. Reset to 0.00 if a new spread arrives.

Symbol	Bid	Ask	Spread	Time	DTVol	LstPnt-#N
SIG	0.01	30.20	30.19	09:23:42	100	0.00-0
RY	58.58	69.99	11.41	09:13:15	700	0.00-0
TCO	39.99	49.96	9.97	09:15:03	140	0.00-0
HRPN	15.75	23.62	7.87	09:21:00	5000	0.00-0
NGSX	1.00	8.60	7.60	09:23:28	1050	0.00-0
PJE	22.90	29.67	6.77	09:23:48	1000	28.68-0
SCOK	33.01	34.98	1.97	09:21:57	5812	0.00-0
MDTH	11.57	13.50	1.93	09:19:32	4500	0.00-0
BIDU	573.30	574.64	1.34	09:23:50	83644	573.26-0
TLK	35.14	35.85	0.71	09:21:00	150100	0.00-0
GYMB	51.76	52.27	0.51	09:19:08	10000	52.20-0
GSL	2.01	2.49	0.48	09:20:19	30000	0.00-0
VIP	16.74	17.20	0.46	09:10:30	179909	0.00-0

NOTE: This feature works only with newer version of Analytic Server (v8.6.6)

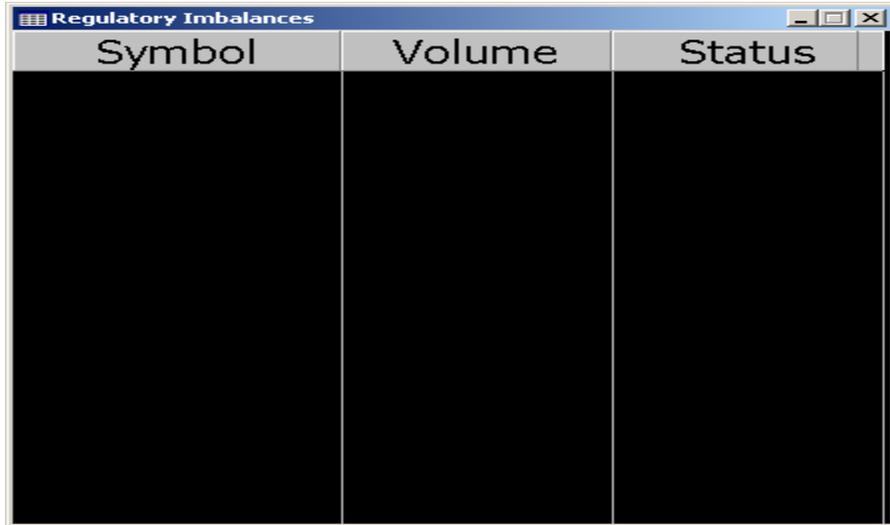
3.1.19 Regulatory Imbalance

This feature helps the user to access the Regulatory imbalances in the market time between 3:40 PM to 4:00 PM. Only regulatory imbalances are sent to Gray Box board view window after creating the files by the client. There were 3 columns named Symbol, Volume and Status showing the respective data.

Symbol: Displays the stock security symbol

Volume: Displays the Imbalance volume

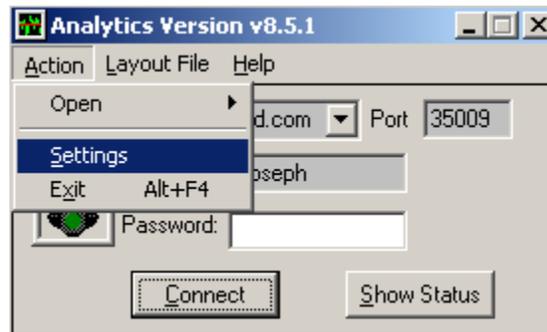
Status: Displays the percentage (%) imbalance



NOTE: This feature works only with newer version of Analytic Server (v8.6.6)

4. Settings

- ❖ Open the Analytic Client Main Dialog (Login Dialog)
- ❖ Go to Action → Settings
- ❖ Click on Settings

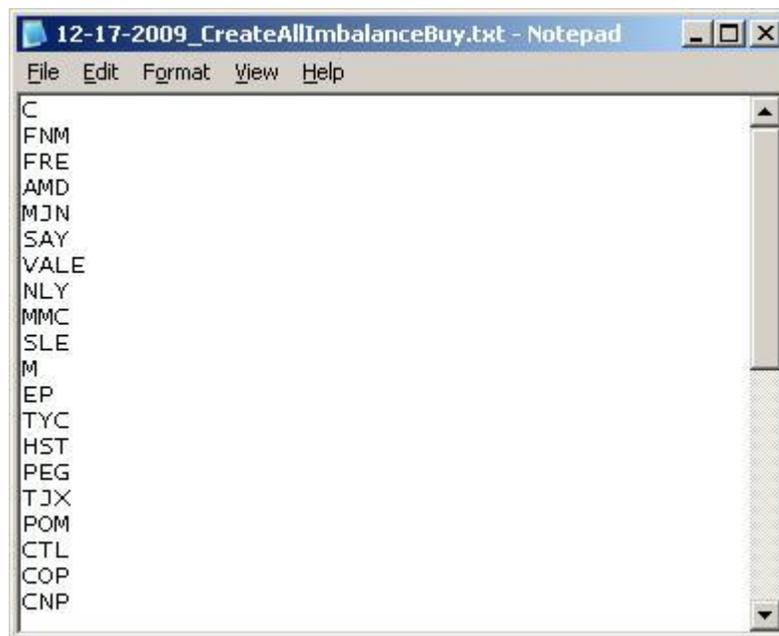


- ❖ The following "Settings" dialog/screen appears





- ❖ Under Settings dialog, there are two setting groups
 - **Imbalance Settings:** This setting is required for the “Regulatory Imbalance” view in order to set the value for creating file and sending notification. There are two check box options available under these settings
 - **Create NYSE Imbalance for GB:** If this is checked, the NYSE imbalance text files (around 24 text files) will be created in the same directory, where the application is running. By default, this check box is checked. The text file contains the symbols of the securities for which imbalance is published according to different combinations like, top 10, 20 & 30 with “only sell”, “only buy”, “both sell & buy” etc. For example, a sample text file is shown. These files are created according to the date suffixed with the name.

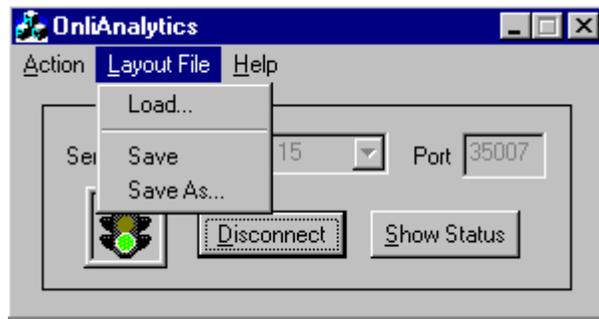


- **Send NYSE Imbalance Notification:** if this option is checked, then a notification is send to the Gray Box client application, to load the imbalance on Board view, for the corresponding symbols in the generated text files. By default, this check box is checked.
- **Cross Display Send settings:** This setting is required to send the cross display data to the 3rd party applications via UDP multicast. Further explanation is given in the section under “Cross Prints”



5. Layout

Analytic client saves previous analytic view layouts in layout files. The view layouts can be restored from loading the layout files later on. Loading can be done automatically or manually



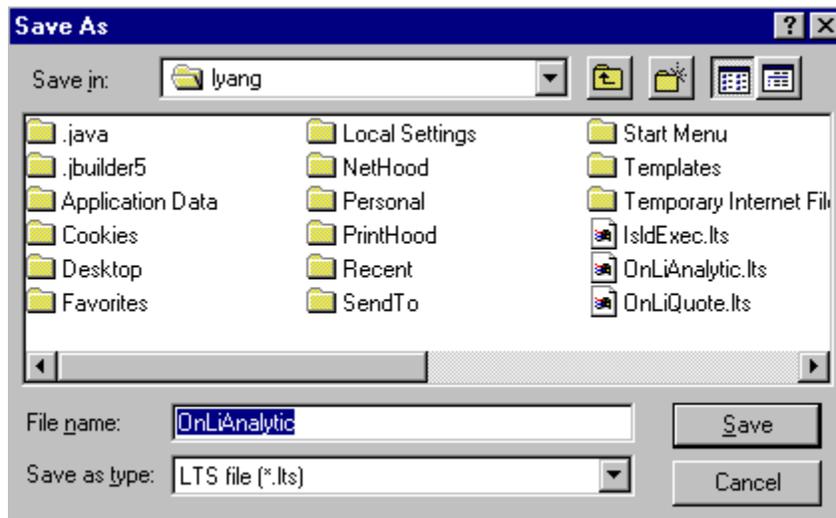
- ❖ Layout File → Load → Open Dialog
- ❖ When Load menu item is clicked, An Open File Dialog pops up and user can select the layout file name to load the analytic view layouts. That file is set as default layout file



- ❖ When Analytic Client is open, and logon to Analytic Server, it loads Analytic View layouts from the default layout file automatically, if the default layout file exists



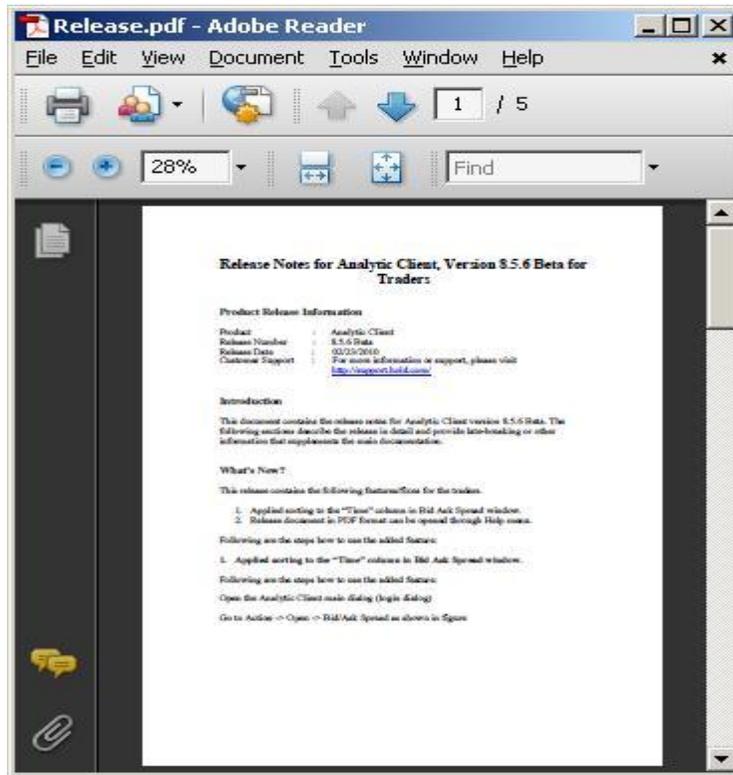
- ❖ When Analytic Client is closed, it saves analytic view layouts to the default layout file automatically (It creates the default layout file if it is not specified)
- ❖ Layout File → Save
- ❖ When the Save menu item is clicked. The analytic view layouts are saved to the default layout file. If no default layout file exists, a Save File Dialog pops up and user can specify the layout file name to save the analytic view layouts. That file is set as default layout file
- ❖ Layout File → Save As → Save As Dialog
- ❖ When the Save As menu item is clicked, Save File Dialog pops up and user can specify the layout file name to save the analytic view layouts. That file is set as default layout file.



- ❖ Help → About Dialog



- ❖ Help → Release Document

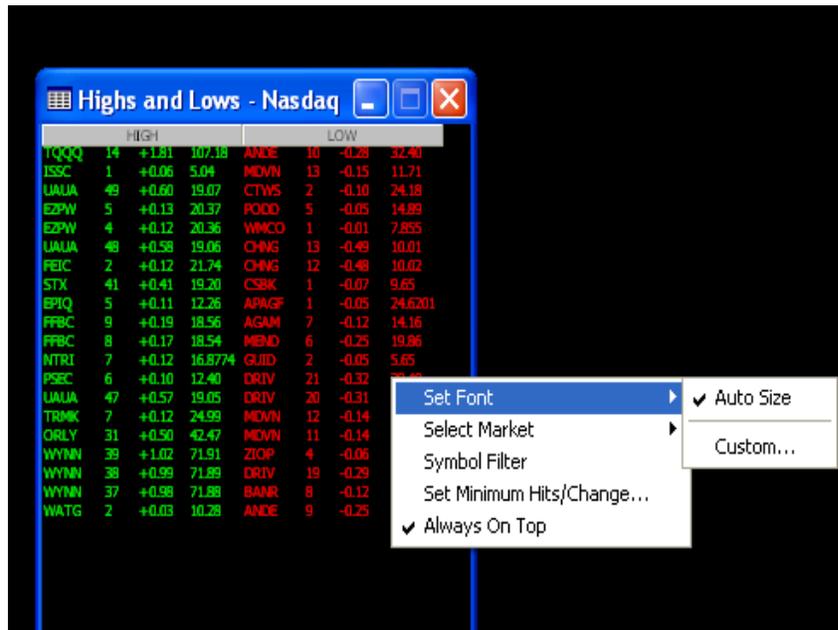


6. Customizing Views

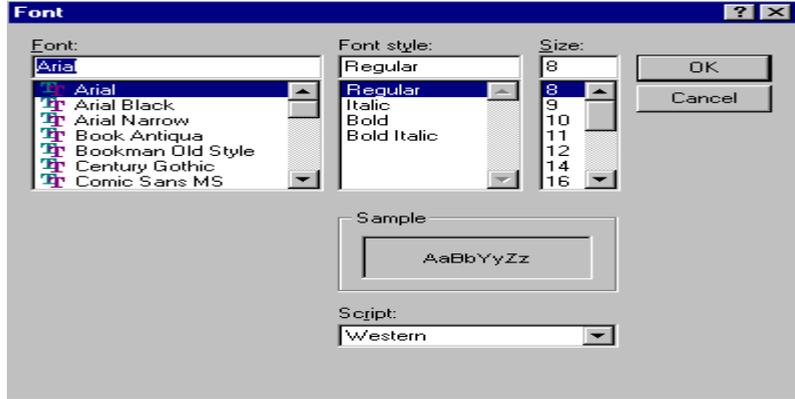
- ❖ In Analytic Client application, user can use the popup menu of each view to customize the background color, select market, set fonts, set always on top and set filters for incoming data
- ❖ The popup menu for each and every view is more or less the same with one or two additional options. For example, Analytic Views like Crossed Locked Display, Highs, Lows, Highs & Lows, Top Volume, Bid and Ask Scan, Price Alerts, Firm Execution, Imbalance, Cross Prints, Bid/Ask Spread, and Regulatory Imbalances have the special type of filter as follows



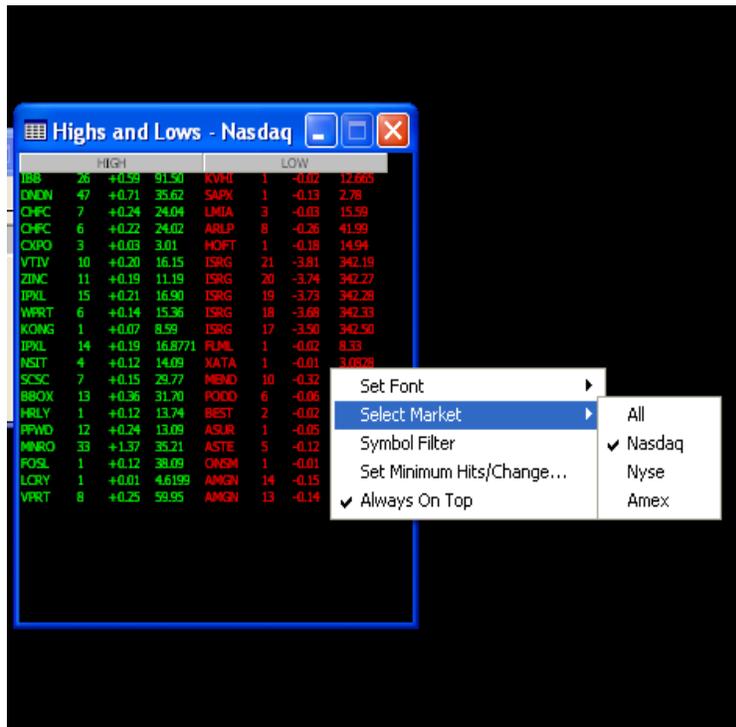
- ❖ For all Analytic Views, user can change their display fonts to either auto fonts or custom fonts. If Auto Size is set, the font size is adjusted automatically to let the display fit the size of the view. When the size of the view changes, its font also changes



- ❖ If the user clicks Custom menu item, a Fonts Dialog will be opened to let user choose the fonts for the view. The changed fonts on a view apply to all displaying views



- ❖ For all views except Firm Executions, user can choose select market to display the data for All / NASDAQ / NYSE / AMEX market. The default market is NASDAQ when a view is open

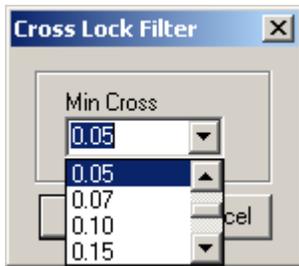




❖ Cross Locked Display → “Min CrossLock”



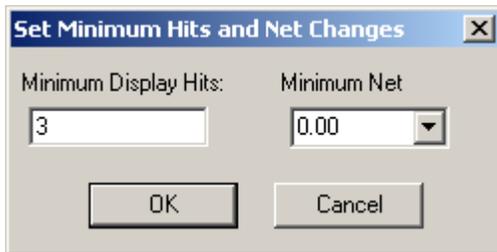
The following dialog displays to enable the user to select the pre filled values of “Min Cross” from the available combo



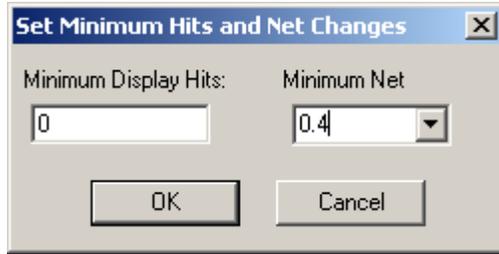
❖ Highs → “Set Minimum Hits/Change...”



The following dialog displays how to enter the values to filter data.



The value for Minimum Display Hits can be entered in the text box in order to filter the data. The 2nd column of Highs window shows the Display Hits.



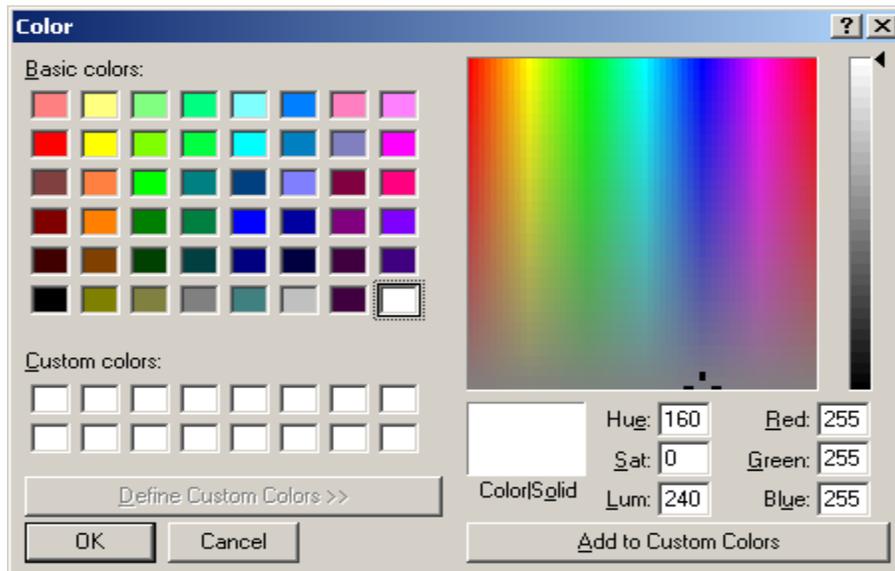
The Minimum Net can be selected from the available combo. The 3rd column of Highs window shows the Net value.

Similar filter dialog is also available for Lows, Highs & Lows window

- ❖ Top Volume → "Background Color..."



For some Analytic Views, the background color can be changed by clicking the Background Color menu item. It will open a Color Dialog and the user can choose the color for that view's background color. Similar menu option is also present for "Top Range" , "Top Close Change", "Top Open Change" and "Top Percent Change" window

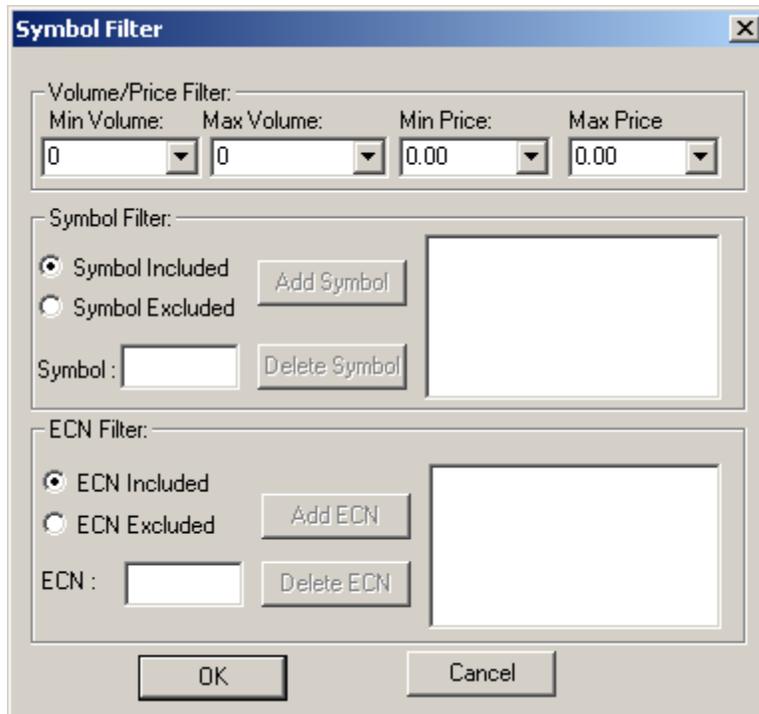




❖ Bid and Ask Scan → “Symbol Filter”



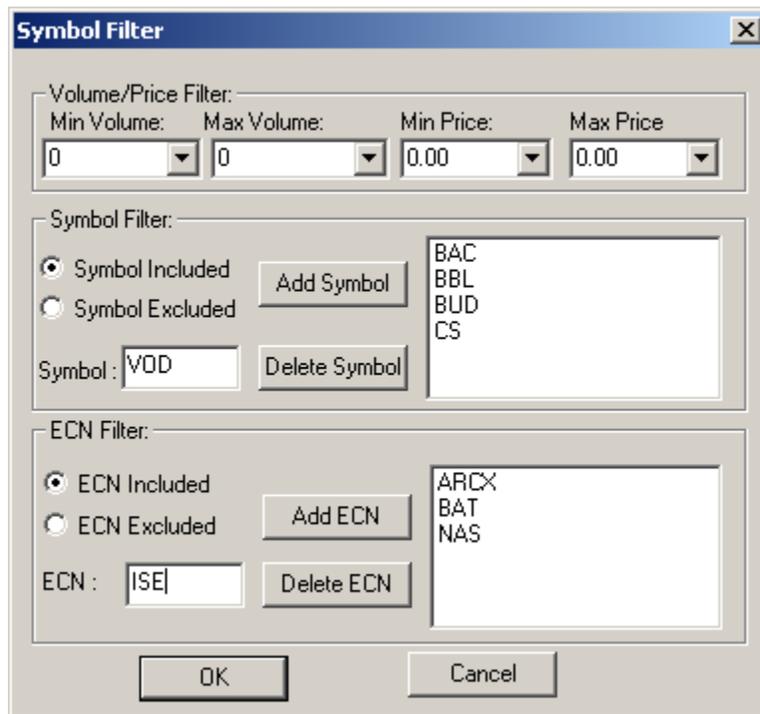
The following Symbol filter dialog pops up when user selects Symbol Filter menu option.



User can select Symbol filter with “Symbol Included” or “Symbol Excluded” options as well as ECN Filter with “ECN Included” or “ECN Excluded” options as shown in the following figure to filter out the data

Symbols can be edited on the available Symbol text box and then added to the list box by clicking on the Add Symbol button. Similar operation could be done in ECN filter too.

Also user can select any symbol from the list box and delete that by selecting the “Delete Symbol” button

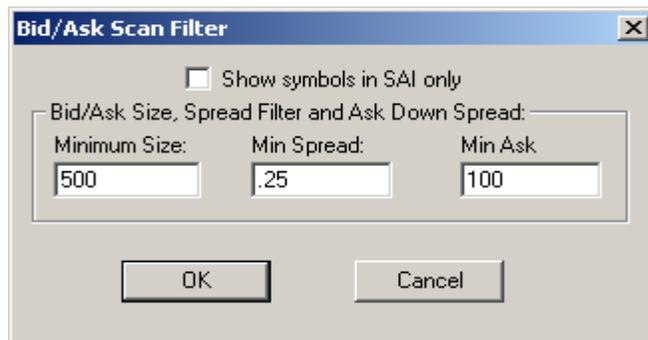


❖ Bid and Ask Scan → “Bid Ask Filter”



Following dialog shows how to filter while setting values for minimum size (share), Min Spread and Min Ask.

For Min Size, the entered value must be multiple of the value displayed under share column.

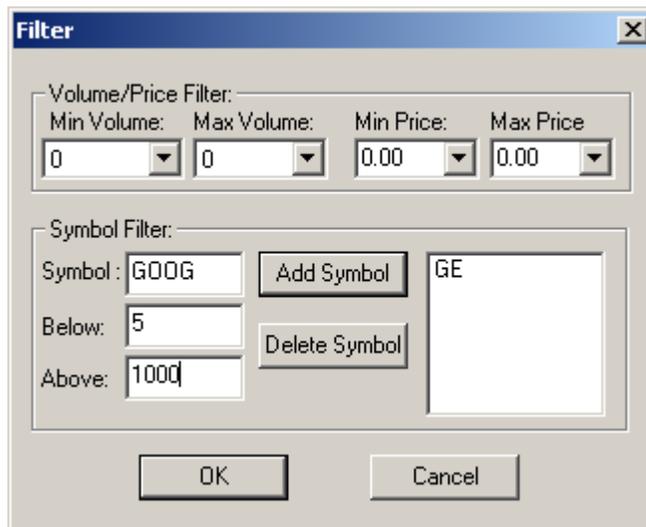




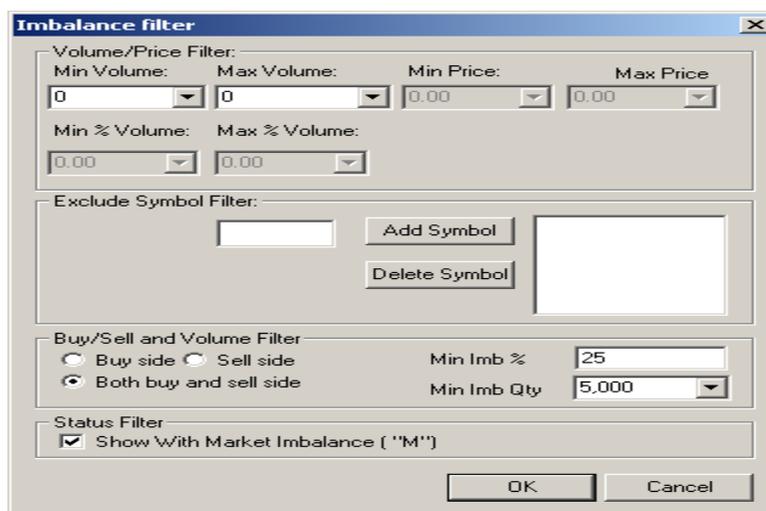
❖ Price Alerts → “Price Alert Filter”



The following dialog shows how to filter symbols with it's below and above values.



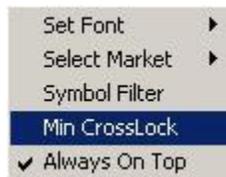
❖ Imbalance → “Imbalance Filter”



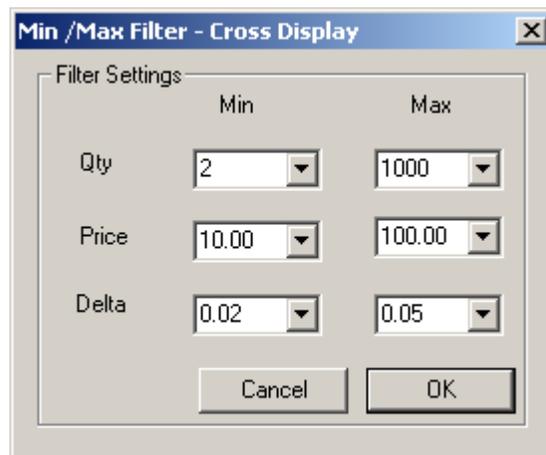
Note: Similar filter dialog with caption “Regulatory Imbalance Filter” is attached with the “Regulatory Imbalance” window



❖ Cross Prints → “Min CrossLock”



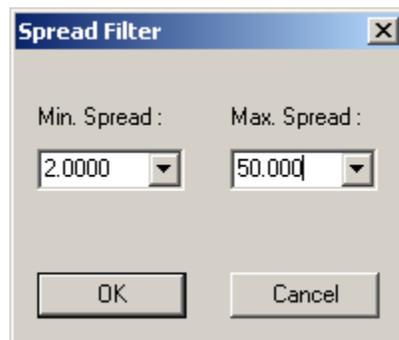
The following dialog shows how to set the values in order to filter Quantity, Price and Delta column values.



❖ Bid/Ask Spread → “Spread Filter”



Following dialog shows how to set the values for Min Spread and Max. Spread in order to filter the data.





7. Exiting the Application

- ❖ Action → Exit



Note: Application can be also exited by clicking on the cross button on the top right corner of the dialog