

TRADING WORK STATION (TWS)

USER/OPERATIONAL MANUAL

END USER DOCUMENTATION

ISLAMABAD STOCK EXCHANGE (G) LIMITED

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1. Trading Work Station (TWS)

1.1 User/ Operational Manual

1.1.1 General Information

1.1.1.1 System Overview

Ultra Trade System consists of many different components which together provide a complete trading solution. One of the key elements is the Trading Work Station (TWS). TWS is a full-featured PC desktop online trading application that offers you the ability to buy and sell shares and view real time stock information over the LAN of the stock exchange. It also offers a variety of other useful menus to manage stock sale/purchase and client information e.g. Trade Log's and Net positions etc.

1.1.1.2 Major Functions Performed By the System

- Processing orders (enter, cancel, match, cross, change buy and sell)
- Managing trades (view trade inquiries for a broker, symbol, or market)
- Monitoring activity (monitoring queued orders of symbols in Market Watch, viewing orders and markets with Waterfall and Tape Tickers, monitoring profit and loss and viewing open and suspended orders currently at the market)
- Inquiring activities (Inquiring summaries (orders, price, symbols, gainers/losers), log information (trades, activities)
- Download information (use spreadsheets, databases and back office administration);

1.1.1.3 Authorized Use Permissions

The TWS is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

1.1.1.4 Contingencies and Alternate Modes of Operation¹



Using the System

1.1.1.5 Login

Ultra Trade 6.58
User Name
Password
PassCode
OK Cancel
Figure 1: Login Screen

The Login Screen at TWS allows the user to logon to the system. User is authenticated against the data stored in the database and once the authentication is successful user is allowed to log on to the system.

To login into the system the user interacts with the following fields:

1. The user selects User Name Field

To enter the user name, the user selects user name field to enter the user name

2. The user selects Password Field To enter the password, the user selects password field to enter the password

3. The user selects Pass Code Field

To enter the Pass code, the user selects Pass Code field to enter the pass code shown in RSA token. This option is enabled only for remote users.



1.1.1.6 Fonts

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	Western	•	

Figure 2: Fonts Screen

The Fonts Screen at TWS allows the user to change the font type, size, style or color. The font change would be applied to the, Market Watch, Best Orders, Best Price, Water Fall Ticker and Order Book Screens.

- 1. The user clicks on File Menu.
- 2. The user selects Fonts from the drop down menu

To change a font type, size, style and color user interacts with the following fields:

1. The user selects Font option

To change the type of font, user can also preview the changes in sample box

2. The user selects Font Style option

To change the style of font from the following options:

- Regular
- Italic
- Bold
- Bold Italic

User can also preview the changes in sample box.

3. The user selects size option

To change the size of font, user can also preview the changes in sample box

4. The user selects effects option

To change the effects on font from the following options:



- Strikeout
- Underline

User can also preview the changes in sample box

- 5. The user selects Color option To change the color of font, user can also preview the changes in sample box
- 6. The user selects Script

To apply the script on of font, user can also preview the changes in sample box

7. The user clicks on OK button

To apply changes and closes the window.



1.1.1.7 Unattended Mode



Figure 3: Unattended Mode

The Unattended Mode is used for locking most instructions of the TWS. It is usually needed when users are leaving the application to prevent unauthorized access to the system.

- 1. The user clicks on File Menu.
- 2. The user selects Unattended Mode from the drop down menu

Activating this option freezes order entry, order management, and profile management. The trading Engine continues to update Inquiries, Tickers, Messages and the Market Watch, while the application is locked.



1.1.1.8 Change Password

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Figure 4: Change Password

The Change Password screen at TWS allows the user to change his/her password in the system. Once logged into the application the user can now change his/her password.

- 1. The user clicks on File
- 2. The user selects Change Password

To Change a Password the user interacts with the following fields:

- 1. The user selects the Old Password field To enter the user's current password in old password field
- 2. The user selects the Enter New Password field To enter the new desired password of user in place of old password.
- **3.** The user selects the Confirm New Password field To enter the new desired password for new password confirmation.
- 4. The user clicks on the Ok button To execute the change password instruction



1.1.1.9 Send Message

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Figure 5: Send Message	

The Send Message screen at TWS allows the user to send the messages to other members over the network.

- 1. The user clicks on File
- 2. The user selects Send Message

To send a message the user interacts with the following fields:

- 1. The user selects TWS to CTRF Radio Button To send message to other terminals within same house
- 2. The user selects TWS to TWS Radio Button To send message to other TWS in exchange
- **3.** The user selects TWS to TWS Radio Button To enter message that he/she wants to send to other member.
- The user presses the Send button To instantly send the message to the selected member.



1.1.1.10 Save Message



The Save Messages option at TWS allows the user to save the messages that appear in the message window for future retrieval. These messages can be sent by trader and admin over the network.

- 1. The user clicks on File
- 2. The user selects Save Messages



1.1.1.11 Save Activity Log



Figure 7: Save Activity Log

The Save Activity Log option at TWS allows the user to save the messages that appear in the message window for future retrieval. These messages can be buy/sell trade messages.

- 1. The user clicks on File
- 2. The user selects Save Activity Log



1.1.1.12 Save Market by Price



Figure 8: Save Market by Price

The Save Market by Price option at TWS allows the user to save the best order of a traded symbol in a text file for future retrieval.

- 1. The user clicks on File
- 2. The user selects Save Market by Price



1.1.1.13 TWS Settings

TWS settings	×
Live Feed Settings	
Maintain Log File	
File Name	
Overwrite Existing File	
Master Trade Log Settings	
Path	
Remember client code	
Client code	
OK Cancel	

Figure 9: TWS Settings Screen

The TWS settings at TWS allow the user to customize the settings of TWS.

- 1. The user clicks on File
- 2. The user selects TWS Settings

To change the settings of TWS, user interacts with the following fields:

1. The user selects Maintain Log File field

To select or deselect check box to chose whether to maintain a log file for all activities or not

- 2. The user selects File Name field To enter the file name of log file
- **3.** The user selects Overwrite Existing File field To select or deselect check box to overwrite the file existing file or not
- 4. The user selects Path field To enter the path to specify the location for trade log file
- 5. The user selects Remember Client Code field To select or deselect check box to show the default client code in several screens (e.g. Buy, Sell etc.). It also uses to enable and disable the client code field.
- 6. The user selects Client Code field To enter the default client code value.



7. The user presses the OK button To save the changes and closes the screen



1.1.1.14 Print Message



Figure 10: Print Message

The Print Messages option at TWS allows the user to send all the messages that are displayed on TWS message window to printer for record keeping purpose.

- 1. The user clicks on file.
- 2. The user selects Printing Messages.



1.1.1.15 Change Printer

Printer Name	Change Printer	
	Printer Name	9
OK Cancel	ОК	Cancel

Figure 11: Change Printer Screen

The change Printer screen at TWS allows the user to change his/her default printer, for printing messages.

- 1. The user clicks on File
- 2. The user selects Change Printer

To change the printer for TWS, user interacts with the following fields:

1. The user selects Printer Name field To enter the printer name to set the entered printer as default for printing messages

2. The user presses the OK button

To initiate the request to make the selected printer as default and closes down the screen



1.1.1.16 Gateway Mode



Figure 12: Gateway Mode

The Gateway Mode option at TWS allows the user for setting the terminal to behave like a gateway which receives a request from third party software in a prescribed format and send it to TWS for further processing.

- 1. The user clicks on file.
- 2. The user selects Gateway Mode.



1.1.1.17 Speak Messages



Figure 13: Speak Messages

The Gateway Mode option at TWS allows the user for setting the terminal to behave like a gateway which receives a request from third party software in a prescribed format and send it to TWS for further processing.

- 1. The user clicks on file.
- 2. The user selects Speak Messages.



1.1.1.18 Speech Settings

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Volume				
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	Speak [<u></u>	Cancel	

The speech settings screen at TWS allows the user to set volume of and rate of speech. It can also play a sound to test the current settings.

- 1. The user clicks on File
- 2. The user selects Speech Settings

To change the speech settings of TWS, user interacts with the following fields:

- 1. The user selects Rate field To adjust the desired speech rate
- 2. The user selects Volume field To adjust the desired volume
- **3.** The user click on speech button To play adjusted sound for user convenience.
- 4. The user presses the OK button To save the settings and closes the screen.



1.1.1.19 Enable Karachi Ticker



Figure 15: Enable Karachi Ticker

The Enable Karachi Ticker option at TWS allows the user to view the KSE trades in a Water Fall Ticker screen.

- 1. The user clicks on file.
- 2. The user selects Enable Karachi Ticker.



1.1.1.20 Enable KSE Best Market



Figure 16: Enable KSE Best Market

The Enable KSE Best Market at TWS allows the user to view the KSE orders in a market watch screen.

- 1. The user clicks on file.
- 2. The user selects Enable KSE Best Market.



1.1.1.21 Exit

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Save Market by price					
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Figure 17: Exit

The Exit instruction is used to close the application and redirect user to desktop. The System will prompt the user to save current profile before exiting.

- 1. The user clicks on File
- 2. The user Selects Exit



1.1.1.22 Buy Order

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	Figure 18: Buy Order

The Buy order screen at TWS is used to place a buy order.

- 1. The user clicks on Order Menu.
- 2. The user selects Buy Order from the drop down menu.

The Buy Order window consists of several fields. Certain fields require information for the Order. To navigate between the fields the user can use the mouse, the arrow keys or the TAB key. To place a normal buy order the user interacts with the following fields:

1. The user selects Market field

To select the market value, the user clicks the down arrow on the right side of the market field and select from the available market values.

2. The user selects Volume field

To enter the volume for a trade, the user selects Volume field and enters the volume he/she wishes to trade with.

3. The user selects Symbol field

To enter a symbol, the user selects Symbol field and enters the symbol he/she wishes to buy.

4. The user selects Price field

To enter the price of symbol, the user selects the Price field and enters the amount of price he/she wishes to trade with.

5. The user selects Account field

To enter the Account number, the user selects the Account field and enters his/her desired account number.



6. The user selects Dis. Volume field

To enter the Disclosed Volume amount, the user selects the Dis. Volume field and enters his/her desired Dis. Volume amount.

7. The user selects Order Nature field

To select the type of the order being entered, the user clicks the down arrow on the right side of Order Nature field and selects order nature.

8. The user selects Trigger Price field

To enter trigger Price, the user selects the Trigger Price field and enters a trigger price he/she wishes to enter.

9. The user selects H.Ord field

To enter Order number, the user has following choices:

- To enter desired Order number in the H.Ord field for his/her reference.
- Do not to enter an Order number, let the TWS auto generate order number.

10. The user presses Enter twice

The user presses enter twice to submit the order into the market



1.1.1.23 Sell Order

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		Figure 19: Sell	Order			

The Sell Order screen at TWS is used to place a Sell Order.

- 1. The user clicks on Order Menu.
- 2. The user selects Buy Order from the drop down menu.

The Sell Order window consists of several fields. Certain fields require information for the order. To navigate between the fields, the user can use the mouse, the arrow keys or the TAB key. To place a normal Sell Order, the user interacts with the following fields:

1. The user selects Market field

To select the market value, the user clicks the down arrow on the right side of the market field and select from the available market values.

2. The user selects Volume field

To enter the volume for a trade, the user selects Volume field and enters the volume he/she wishes to trade with.

3. The user selects Symbol field

To enter a symbol, the user selects Symbol field and enters the symbol he/she wishes to sale.

4. The user selects Price field

To enter the price of symbol, the user selects the Price field and enters the amount of price he/she wishes to trade with.

5. The user selects Account field



To enter the Account number, the user selects the Account field and enters his/her desired account number.

6. The user selects Dis. Volume field

To enter the Disclosed Volume amount, the user selects the Dis. Volume field and enters his/her desired Dis. Volume amount.

7. The user selects Order Nature field

To select the type of the order being entered, the user clicks the down arrow on the right side of Order Nature field and selects order nature.

8. The user selects Trigger Price field

To enter trigger Price, the user selects the Trigger Price field and enters a trigger price he/she wishes to enter.

9. The user selects H.Ord field

To enter Order number, the user has following choices:

- To enter desired Order number in the H.Ord field for his/her reference.
- Do not to enter an Order number, let the TWS auto generate order number.

10. The user presses Enter twice

The user presses enter twice to submit the order into the market



1.1.1.24 Change Order

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Figure 20: Change Order

The Change Former Order screen at TWS is used to change details of an order.

- 1. The user clicks on Order Menu.
- 2. The user selects Change Former Order from the drop down menu.

The user can change the details of any queued buy or sell orders with the Change Former Orders option. To change an Order the user interacts with the following fields:

1. The user selects Order # field

To enter the order number, by default the last order placed in the system will be shown.

2. The user presses Enter

On enter a new screen is displayed with fields populated with respect to the Order number entered as shown in **figure 21**. Change the order according to requirements and presses enter again and Change Former Order instruction will take place.



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Figure 21: Change Former Order (Fields populated)



1.1.1.25 Cancel Order

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The Cancel Order screen at TWS is used to cancel an order placed.

- 1. The user clicks on Order Menu.
- 2. The user selects Cancel Order from the drop down menu.

The user can cancel an order with the Cancel Order option. The user enters the Order number and presses enter. To cancel an order the user interacts with the following fields:

1. The user selects Order # field

To enter Order number, by default the last order placed in the system will be shown.

2. The user presses Enter

On enter a new screen is displayed with fields populated with respect to the Order number entered as shown in **figure 23**. Press enter again and Cancel Order instruction will take place.



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16:40:39 Buy 3000 PTC @ 40.70 for 123 SL 37 00 order 11531253 in REG market.	맨	To View Real Time Graph of Symbols
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Figure 23: Cancel Order (Fields Populated)



1.1.1.26 Take Order

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The Take Order screen at TWS is used to place Take Orders

- 2. The user clicks on Order Menu.
- 3. The user selects Take Order from the drop down menu.

Take order buys all available volume at the best market price, up to the volume entered in the order window. Any unfilled volume is then cancelled. Note the FOK (Fill or Kill) restriction automatically placed on the order when the Take Order window is opened. To place a normal take order the user interacts with the following fields:

1. The user selects Market field

Click the down arrow on the right side of the Market field and select from the markets available.

2. The user selects Volume field

To enter volume, select Volume field and enters the volume wishes to trade with.

3. The user selects Symbol field

To enter symbol, select symbol field and enters the desired symbol.

4. The user selects Price field

To enter price, select the Price field and enters the amount of price wishes to trade with.

5. The user selects Account field

To enter the Account number, select the Account field and enters desired account number.

6. The user selects Dis. Volume field



To enter the disclosed volume, select the Dis. Volume and enters desired disclosed volume.

7. The user selects H.Ord field

To enter the order number, the user can do the following tasks:

- The user can enter a desired Order number in the Order # field for his reference.
- The user doesn't want to enter Order number for his reference.

8. The user presses Enter

The user presses enter and take order instruction will take place.



1.1.1.27 Hit Order



The Hit Order screen at TWS is used to place Hit Orders

- 1. The user clicks on Order Menu.
- 2. The user selects Hit Order from the drop down menu.

Hit order is similar to a Take order, but it sells all available volume at the best market price. Unfilled volume is killed. To place a normal hit order, the user interacts with the following fields:

1. The user selects Market field

To select the market value, the user clicks the down arrow on the right side of the market field and select from the available market values.

2. The user selects Volume field

To enter the volume for a trade, the user selects Volume field and enters the volume he/she wishes to trade with.

3. The user selects Symbol field

To enter a symbol, the user selects Symbol field and enters the symbol he/she wishes to sale.

4. The user selects Price field

To enter the price of symbol, the user selects the Price field and enters the amount of price he/she wishes to trade with.

5. The user selects Account field

To enter the Account number, the user selects the Account field and enters his/her desired account number.



6. The user selects Dis. Volume field

To enter the Disclosed Volume amount, the user selects the Dis. Volume field and enters his/her desired Dis. Volume amount.

7. The user selects Order Nature field

To select the type of the order being entered, the user clicks the down arrow on the right side of Order Nature field and selects order nature.

8. The user selects Trigger Price field

To enter trigger Price, the user selects the Trigger Price field and enters a trigger price he/she wishes to enter.

9. The user selects H.Ord field

To enter Order number, the user has following choices:

- To enter desired Order number in the H.Ord field for his/her reference.
- Do not to enter an Order number, let the TWS auto generate order number.

10. The user presses Enter twice

The user presses enter twice to submit the order into the market



1.1.1.28 Short Sell Order

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17:21:00 The Continuous Funding Market will Close at 17:25	00.		
17:25:00 The Continuous Funding Market is Closed.		J To Vi	w Real Time Graph of Symbols
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Figure 26: Short Sell Order

The Short Sell Order screen at TWS is used to place Short Sell Orders.

- 1. The user clicks on Order Menu.
- 2. The user selects Short Sell Order from the drop down menu.

The Short Sell order window is similar to the Sell order window, except the order is flagged, as a short sell in your inquiries and the window is pink in color. To place a short sell order the user interacts with the following fields:

1. The user selects Market field

To select the market value, the user clicks the down arrow on the right side of the market field and select from the available market values.

2. The user selects Volume field

To enter the volume for a trade, the user selects Volume field and enters the volume he/she wishes to trade with.

3. The user selects Symbol field

To enter a symbol, the user selects Symbol field and enters the symbol he/she wishes to sale.

4. The user selects Price field

To enter the price of symbol, the user selects the Price field and enters the amount of price he/she wishes to trade with.

5. The user selects Account field

To enter the Account number, the user selects the Account field and enters his/her desired account number.



6. The user selects Dis. Volume field

To enter the Disclosed Volume amount, the user selects the Dis. Volume field and enters his/her desired Dis. Volume amount.

7. The user selects Order Nature field

To select the type of the order being entered, the user clicks the down arrow on the right side of Order Nature field and selects order nature.

8. The user selects Trigger Price field

To enter trigger Price, the user selects the Trigger Price field and enters a trigger price he/she wishes to enter.

9. The user selects H.Ord field

To enter Order number, the user has following choices:

- To enter desired Order number in the H.Ord field for his/her reference.
- Do not to enter an Order number, let the TWS auto generate order number.

10. The user presses Enter twice

The user presses enter twice to submit the order into the market


1.1.1.29 Cancel Order Globally

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12:10:53 Soll 8000 PTC @ 40:00 for 123 order 11531241 in REG market. 12:31:28 Trade 4282287 sold 100 OGDC @ 12:000 for 123 order 11531234 remaining 400 REG market. 12:39:05 Trade 4282288 onld 400 OGDC @ 12:000 for 123 order 11531234 remaining 0 REG market.	t. To View Red Time Graph of Symbols Please Register TDart Inno www.khorestock.com
🚮 start 🔰 🖉 😂 🥤 🕜 WorldClent 😂 LSL 📲 TWS_LSLR_G	😭 THIS - SRS.doc 👔 Utra Trade 🛛 Utra Trade 🖓 LSE Project 🔦 😅 😓 🛔 12:53 PM
Figure 27: C	ancel Global Order

The Cancel Order Global screen at TWS is used to cancel all orders globally at any market.

- 1. The user clicks on Order Menu.
- 2. The user selects Cancel Order Globally from the drop down menu.

The user can globally cancel an order with the Cancel Global Order. The user enters the Order number and selects or unselects the check boxes according to his decision and presses enter. To cancel a global order the user interacts with the following fields:

1. The user selects Symbol field

To enter the symbol, the user selects Symbol field and enters the desired symbol.

2. The user selects Account field

To enter the Account number, the user selects the Account field and enters his/her account number.

3. The user selects Type List Box

To select the type of orders, the user selects the desired orders type from the available list.

4. The user Market List Box

To select the market of orders, the user selects the desired market from the available list.

5. The user selects Trader

To select the trader, the user selects the desired trader ID from the available list.

- If the user is a master in the Trader field, list of traders ID belonging to the same member house will be displayed to the user.
- If the user is a child, he/she will be restricted to only see his own trader ID.



6. The user presses Enter or clicks on Ok button

On enter the Global Order Cancel instruction is executed and the order is cancelled globally.



1.1.1.30 Market Watch

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The Market watch screen at TWS is a customized inquiry that displays current market information on the symbols you have elected to watch.

- 1. The user clicks on Watch Menu.
- 2. The user selects Market Watch from the drop down menu.

Market Watch monitors many different symbols in different markets. It displays the current best market, last trade price, turnover, total volume, average, high, low and net change. To view the Market Watch the user interacts with the following fields:

1. The user selects Symbol field

To enter the symbol, the user selects Symbol field and enters the desired symbol.

- **2.** The user selects Profile field To select profile name, click on down arrow to select the desired profile.
- **3.** The user selects Search symbol field To enter the desired symbol to search it
- 4. The user selects subscribe field To select or deselect the check box to show only market watch symbols in a ticker
- 5. The user presses enter on a symbol field To show the best available market of the desired symbol
- The user chooses the page no.
 To display the chosen Page No. Of the selected profile



- 7. The user presses the Save Profile button To save the changes made on a selected profile
- 8. The user presses the Delete Profile button To delete the selected profile
- The user presses the New Profile button
 To create the new profile with blank market watch screen.

10. The user double clicks on any column

To display the Best Orders screen of selected symbol.

11. The user clicks on Mkt column

To select the market from the following given values.

- CSF
- Reg
- ODD
- BI
- SP
- DL
- KRE
- KCO



1.1.1.31 Best Orders

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	Figure 4: Best Orders									

The Best order screen at TWS is used to view all the buyers and sellers orders of a symbol in a particular market. The orders are arranged according to their trade priority in the trade queue.

- 1. The user clicks on Watch Menu.
- 2. The user selects Best Orders from the drop down menu.

To view the Best Orders the user interacts with the following fields:

1. The user selects Market field

To select market value from the following options

- Reg
- ODD
- CFS
- BI
- SO
- DL

2. The user selects Symbol Field

To select the desired symbol in the 'Symbol' field

3. The user presses enter on a symbol field

To show all queued buy and sell orders and al the fields are filled except the ID column.



1.1.1.32 Water Fall Ticker

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Figure 30: Water Fall Ticker

The Water fall ticker screen is needed to view all current activities performed by the traders. Whenever a new order is placed (either Buy or Sell) or a previous order is changed, a colored waterfall effect falls down the window and updates symbols and their corresponding data, on this screen.

- 1. The user clicks on Watch Menu.
- 2. The user selects Water Fall Ticker from the drop down menu.

To view the Water Fall Ticker the user interacts with the following fields:

1. The user selects Non Active Symbol Having Volume <

To perform following actions:

- Enables the volume field to enter the volume
- To show All Non-Active symbols having volume less than the given volume

2. The user right clicks on a Water Fall Ticker Screen

To display Ticker settings window; it shows a list of market on left hand side and color1, color2, ok and cancel buttons on right hand side to apply different colors on market as shown in **figure 31**.



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		Color2						
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		Cancel						

Figure 31: Ticker Settings



1.1.1.33 Best Price Levels

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Figure 32: Best Price Levels	

The Best Price Level Screen at TWS is used to display all buyer and seller orders with respect to their prices, and also gives information about total buy volume and total sell volume. This screen is very useful to view the market strength at various price levels.

- 1. The user clicks on Watch Menu.
- 2. The user selects Best Price Levels from the drop down menu.

To view the Best Price Levels the user interacts with the following fields:

1. The user selects Market field

To select market value from the following available options

- BI
- CFS
- DL
- ODD
- REG
- SO

2. The user selects the Symbol filed

To select the desired symbol in the 'Symbol' field

3. The user presses enter on symbol field

To display all queued buy and sell orders with respect to their prices, available buy volumes and available sell volumes of the desired symbol.



1.1.1.34 Order Book

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Figure 33: Order Book	

The Order Book screen at TWS is used to display all the orders placed by a member, regardless of the symbol and the type of market where the order is placed.

- 1. The user clicks on Watch Menu.
- 2. The user selects Order Book from the drop down menu.

To view the Order Book the user interacts with the following fields:

1. The user selects Symbol field

To enter the desired symbol

2. The user selects the Account filed

To enter his/her desired client account number at this field.

3. The user selects Type field

To The user can now select order type from the following options.

- Buy
- Sell

4. The user selects Mkt field

To select the Market type from the following options:

- <empty>
- REG
- CFS



- ODD
- SO
- BI
- DL

5. The user presses enter

To show the orders matching above criteria



1.1.1.35 Exchange Statistics

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Figure 34: Exchange Statistics

The Exchange statistics screen is needed to view information about current market status to get an idea of the total trading that has been taken place in the exchange.

- 1. The user clicks on Watch Menu.
- 2. The user selects Exchange Statistics from the drop down menu.

To view the Exchange Statistics the user interacts with the following fields:

1. The user selects Market field

To select market value from following options

- REG
- CFS
- ODD
- SO
- BI
- DL

The status, trades, volume and value fields are filled with respect to the selected market.

2. The user selects Index field

To select index value from following options

- LFT-25
- LSE-15
- LSE-25



LSE-TRI

The open, high, low, current and change fields are filled with respect to the selected index.



1.1.1.36 Market States

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	BI	Loaded	-					
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		Figure	e 35: Ma	rket Sta	tes			

The Market States screen is needed to view detailed schedules and states of all the markets.

- 1. The user clicks on Watch Menu.
- 2. The user selects Market States from the drop down menu.



1.1.1.37 Toolbar

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		Figure 36: Too	olbar		

The Toolbar option at TWS allows the user to choose between displaying a toolbar at TWS or not. A Toolbar at TWS helps by making some common menu options (Buy, Sell, Change Order, Cancel Order, Hit, Take, Cancel Orders Globally, Market Watch, Best Order, Best Price Level, Exchange Statistics, Order Book, Market Sates, Remaining Orders, Trade History by user, Trade History by Exchange and Event Log) available on button clicks.

- 1. The user clicks on Watch Menu.
- 2. The user selects Toolbar from the drop down menu.



1.1.1.38 Spot Schedule

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	8B3C	29-6-2000	24.7-2000				
	BB3D	29-6-2000	24-7-2000				
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Figure 37: Spot Schedule

Spot Schedule screen at TWS is needed to view spot schedule of all symbols.

- 1. The user clicks on Watch Menu.
- 2. The user selects Spot Schedule from the drop down menu.

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1.1.1.39 Remaining Orders

Figure 38: Remaining Orders



The Remaining order screen is needed to view all the orders that are open for trade in the system. The screen is useful to view the orders in queue and hasn't found a matching seller or buyer yet. User can note down the order number and then later use to cancel or change order.

- 1. The user clicks on Watch Menu.
- 2. The user selects Remaining Orders from the drop down menu.

To view the Remaining Orders the user interacts with the following fields:

1. The user selects Market field

To select desired market from the following options

- empty>
- REG
- CFS
- OFF
- BI
- SO
- DL

2. The user selects Symbol field

To select desired symbol from symbol drop down list.

3. The user selects Type field

To select the desired order type from the following options

- empty>
- BUY
- SELL

4. The user selects Account field

To enter the desired account number

5. The user selects Users field

To select the trader ID belonging to the same member house. If the user is child he/she restricted with his/her own ID.

6. The user presses enter

To show all the remaining orders matching the given criteria.

7. The user right clicks on any column

To display the cancel order screen for the selected order

8. The user double clicks on any column

To display the change order screen for the selected order



- 9. The user clicks on Refresh Button To refresh the data shown in table
- **10. The user clicks on Save Button** To save the table data in a file

11. The user clicks on print button

To take a print out of the data shown in table



1.1.1.40 Trade History by User

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		Figu	re 39: Trade	History by Use	r		

The Trade History by User Screen is needed to view all the trades that have been taken place on a terminal. Several options on the screen are available to restrict the amount of data displayed and to display only personalized information.

- 1. The user clicks on Reports Menu.
- 2. The user clicks Trade History sub-menu
- 3. The user chooses User from the drop down menu.

To view the Trade History by User the user interacts with the following fields:

1. The user selects Market field

To select desired market from the following options

- REG
- CFS
- OFF
- BI
- SO
- DL

2. The user selects Symbol field

To select desired symbol from symbol drop down list.

3. The user selects Account field

To enter the desired account number.



4. The user selects Start time

To enter the start time for displaying trades occurred during Start Time and End Time.

5. The user selects End Time

To enter the end time for displaying trades occurred during Start Time and End Time.

6. The user selects Trader field

To select the trader ID belonging to the same member house. If the user is child he/she restricted with his/her own ID.

7. The user selects Type field

To select the desired order type from the following options

- empty>
- BUY
- SELL

8. The user presses enter

To show all the trades matching the given criteria in a table

9. The user clicks on Refresh Button

To refresh the data shown in table

10. The user clicks on Save Button

To save the table data in a file

11. The user clicks on print button

To take a print out of the data shown in table



1.1.1.41 Trade History by Exchange

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	Trade H	istory By Exc	hange							3	
		Symbol		Market REC	Book		Retresh	Save	Pret		
		Start Time		End Time	Trade	M	-				
	Market	Seller	Buyer	Time	Sell_Ord	Buy_Ord	Volume	Rate	Trade ACT		
Messages : Granh:1											
11:50:18 Sell 500 PTC											
11:50 18 Trade 4282266											
11:50:18 Trade 4282265										New Real Time Graph of Symbols	_
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				Fig	ure 40: Tra	ade Hist	ory by	/ Exchai	nge		

The Trade History by Exchange Screen is needed to view all the trades that have been taken place in exchange. Several options on the screen are available to restrict the amount of data displayed and to display only personalized information.

- 1. The user clicks on Reports Menu.
- 2. The user clicks Trade History sub-menu
- 3. The user chooses Exchange from the drop down menu.

To view the Trade History by Exchange the user interacts with the following fields:

1. The user selects Market field

To select desired market from the following options

- REG
- CFS
- OFF
- BI
- SO
- DL

2. The user selects Symbol field

To select desired symbol from symbol drop down list.

3. The user selects Start time

To enter the start time for displaying trades occurred during Start Time and End Time.



4. The user selects End Time

To enter the end time for displaying trades occurred during Start Time and End Time.

5. The user selects Trader field

To select the trader ID belonging to the same member house. If the user is child he/she restricted with his/her own ID.

6. The user presses enter

To show all the trades matching the given criteria in a table

7. The user clicks on Refresh Button To refresh the data shown in table

8. The user clicks on Save Button To save the table data in a file

9. The user clicks on print button

To take a print out of the data shown in table



1.1.1.42 Event Log

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E Event Log
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science - Gzubbil
50.18 Sell 500 PTC
60 18 Trade 4282265 sold 500 PTC @ 37 00 for 567 order 11631246 remaining 0 REG market
50/18/Trade 4262265 bought 500 PTC @ 37.00 for 234 order 11531243 remaining 500 REG market.
TChart from www.lahorestock.com
Start 🔰 🧭 🗑 🦿 🥻 🛍 UL 🖉 Workslerc 🖸 TWS-SRC.de 🎄 Goode Updater 🕤 TWS-DDL, G 🛣 Una Trade 🖉 Workse Unit 🦿 🚱 🕹 😓 😓 12401
Figure 41: Event Log

The Event log screen at TWS is used to view the detailed history of all the updates, cancellation and trades of all orders that have taken place from the terminal.

- 1. The user clicks on Reports Menu.
- 2. The user chooses Event Log from the drop down menu.

To view the event log the user interacts with the following fields:

1. The user selects Market field

To select desired market from the following options

- REG
- CFS
- OFF
- BI
- SO
- DL

2. The user selects Symbol field

To select desired symbol from symbol drop down list.

3. The user selects Account field

To enter the desired account number.

4. The user selects Type field



To select the desired order type from the following options

- empty>
- BUY
- SELL

5. The user selects Start time

To enter the start time for displaying events occurred during Start Time and End Time.

6. The user selects End Time

To enter the end time for displaying events occurred during Start Time and End Time.

7. The user selects Trader field

To select the trader ID belonging to the same member house. If the user is child he/she restricted with his/her own ID.

8. The user presses enter

To show all the events matching the given criteria in a table

9. The user clicks on Refresh Button

To refresh the data shown in table

10. The user clicks on Save Button To save the table data in a file

11. The user clicks on print button

To take a print out of the data shown in table



1.1.1.43 Symbol Browser

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Syn	mbol Browse	r (Total Symbols- 3847)				
	Symbol	Company Name				
Sym	bol Market	Company Name	State	IsSpot		
UBL	CFS	UNITED BANK LIMITED	Open	No	- <u>-</u>	
GHN	NR REG	GHANDHARA IND LTD (R)	SUSP	No		
CCB	LR DL	CRESS BANK (R)	Open	No		
WT	L 50	WORLDCALL TELECOM LTD	Open	No		
WT	L ODD	WORLDCALL TELECOM LTD	Open	No		
TSM	ILR ODD	TANDLIANWALA SUG MILLS LT	SUSP.	No		
DNC	CCR DL	DANDOT CEMENT (R)	SUSP	No		
SING	GR SO	SINGER PAKISTAN LTD (R)	SUSP.	No		
NOF	KR REG	NOON PAKISTAN LTD (R)	SUSP	No		
MUC	CLR SO	MUSTEHKAM CEMENT LTD (R)	SUSP	No		
PCC	LR REG	PAKISTAN CEMENT COMPANY	SUSP	No		
FLY	NG CFS	FLAYING CEMENT COMPANY LI	SUSP	No	_	
BIFC	n so	BIAFO INDUSTRIES	Open	No		
BER	IG REG	BERGER PAINTS	Open	No	_	
DHC	1. 000	DEWAN HATTAR CEMENT	Open	No		
JSG	CL BI	JS GLOBAL CAP.LIMITED	Open	No		
TSM	IF REG	TRUSTAR MUTUAL FUND	Open	No		
AKD	HTF DL	AKD INDEX TRACKER FUND	Open	No		
AKD	ILTF REG	AKD INDEX TRACKER FUND	SUSP	No		
SPw	/F DL	SAFEWAY MUTUAL FUND	Open	No		
Тмся	BDCFO REG	MCB DYNAMIC CASH FUND (OFF)	SUSP	No		
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11:50:18 Sell 500 PTC 49 37:00 for 567 order 115312	45 in REG m	arket	_			-
11-60 19 Trade (297765 rold 600 DTC 6) 37 00 for 6	E7 order 1153	1245 commune 0 DEC model				100
11.50-10 Trade 4202203 300 500 PTC (2.57 00 10 5	or under 1100	521242 remaining 0 REG market.				
11:50:10 Trade 4202266 bought 500 PTC (@ 37.00 to	r 234 order 11	531243 remaining 500 REG mark	cet.		To View Real Time Graph of Symbols	
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		Figure 4	2: Sy	mbol	ol Browser	

The Symbol Browser screen displays all the listed symbols in the exchange, each with its official name, Market Name, spot status and current status.

- 1. The user clicks on Reports Menu.
- 2. The user chooses Symbol Browser from the drop down menu.

To view the event log the user interacts with the following fields:

1. The user selects symbol field

To enter the desired symbol

2. The user selects company name field

To enter the official name of company

3. The user presses enter

To shows all the corresponding data in a table.



1.1.1.44 Symbol Summary

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Sy	mbol Browsei	r (Total Symbols- 3847)				
	Symbol	Company Name				
Syn	bol Market	Company Name	State	IsSpot	A	
UBL	CFS	UNITED BANK LIMITED	Open	No		
GH	HR REG	GHANDHARA IND LTD (R)	SUSP	. No		
CCB	LR DL	CRESS BANK (R)	Open	No		
WT	. SO	WORLDCALL TELECOM LTD	Open	No		
WT	DDD .	WORLDCALL TELECOM LTD	Open	No		
TSN	ILR ODD	TANDLIANWALA SUG MILLS LT	SUSP	No		
DNG	CR DL	DANDOT CEMENT (R)	SUSP.	. No		
SIN	GR SO	SINGER PAKISTAN LTD (R)	SUSP.	No		
NOF	KR REG	NOON PAKISTAN LTD (R)	SUSP	. No		
MU	LR SO	MUSTEHKAM CEMENT LTD (R)	SUSP	. No		
PCC	LR REG	PAKISTAN CEMENT COMPANY	SUSP	. No		
FLY	NG CFS	FLAVING CEMENT COMPANY LI	SUSP	. No		
BIFO) SO	BIAFO INDUSTRIES	Open	No		
BEF	G REG	BERGER PAINTS	Open	No		
DHC	1. 000	DEWAN HATTAR CEMENT	Open	No		
JSG	CL BI	JS GLOBAL CAP.LIMITED	Open	No		
TSN	IF REG	TRI-STAR MUTUAL FUND	Open	No		
AKD	ITF DL	AKD INDEX TRACKER FUND	Open	No		
AKD	ITF REG	AKD INDEX TRACKER FUND	SUSP	. No		
SFV	/F DL	SAFEWAY MUTUAL FUND	Open	No		
MC	IDCFO REG	MCB DYNAMIC CASH FUND (OFF)	SUSP	. No	×	
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11:50:10 Trade 4202200 bought 500 PTC @ 37.00 to	r 234 order 11	551245 remaining 500 REG mark	Kel.		To View Real Time Graph of Symbols	_
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		Figure 43	3: Sy	mbol	Browser	

The Symbol summary screen is needed to view detailed information of selected symbol on a particular market.

- 1. The user clicks on Reports Menu.
- 2. The user chooses Symbol Summary from the drop down menu.

To view the event log the user interacts with the following fields:

1. The user selects symbol field

To enter the desired symbol in the 'Symbol' field

2. The user selects Market field

To select the desired market from the following options

- REG
- CFS
- ODD
- BI
- SO
- DL

3. The user presses enter

To execute the Symbol Summary instruction and to display the symbol summary



1.1.1.45 Market Summary

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	Symbol	MKT	Volume	Value	Prev Close	High	Low	Open	Close	Avg	Trades	%Vol	%Val		
	PTC	REG	500	18,500.00	85.00	37.00	37.00	37.00	85.00	37.00	1	33.33	13.36		
	DGDC Total= 2	REG	1.000	120.000.00	168.00	120.00	120.00	120.00	120.00	120.00	1	66.67	86.64		
			1000								-				
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						Fig	ure 4	4: Mar	ket Bro	owser					

The Market summary screen is used to display all trades of a particular market for the current day to show the overall market characteristics.

- 1. The user clicks on Reports Menu.
- 2. The user chooses Market Summary from the drop down menu.

To view the market summary the user interacts with the following fields:

1. The user selects Market field

To select the desired market from the following options

- REG
- CFS
- ODD
- BI
- SO
- DL

2. The user clicks on the Print button

To execute the print instructions

- 3. The user clicks on the Save Market Summary Button To save market summary data in a file
- 4. The user clicks on the Save Price List Button



To save price list data in a file



1.1.1.46 Net Position

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		Net	Position			-									
		Market	1	NEG	Trader	1	-	Refresh					-		
					VOLUM	E.S				VALUE		Weighted A	verage		
		Symbol/	Mkt	Purchase	Sale	Gross	Net	Purchase	Sa	le Gross	Net	Purchase	Sale		
		DTC	PEO	500	500	1.000	0	18500.00	18500.0	37000.00	0.00	37.00	37.00		
		PIL	BEB	500	500	1,000		18500.00	189001	37000.00]	0.00	37.00	37.00		
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Messages															
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								Figure	45: N	et Position					

The Net position screen is needed to view average purchase and average sales of any member at a particular market with respect to volume and value. It is also very useful to get a clear picture of the NET profit or loss that you have incurred on trades, sorted by the symbol name.

- 1. The user clicks on Reports Menu.
- 2. The user chooses Net Position from the drop down menu.

To view the net position the user interacts with the following fields:

1. The user selects Trader field

To select the trader ID belonging to the same member house to view its net position. If the user is child he/she restricted with his/her own ID.

2. The user selects market field

To select the desired market from the following options

- REG
- CFS

3. The user clicks on refresh button

To refresh the data shown in a table



1.1.1.47 Consolidated Daily Trade log

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Figure 46: Consolidated Daily Trade Log

The Consolidated Daily Trade Log Screen is needed to view the member's trade history for trades don't using Ultra Trade as well as the trades done outside the Ultra Trade.

- 1. The user clicks on Reports Menu.
- 2. The user chooses Consolidated Daily Trade Log from the drop down menu.

To view the Consolidated Daily Trade Log the user interacts with the following fields:

1. The user selects Market field

To select desired market from the following options

- REG
- CFS
- OFF
- BI
- SO
- DL

2. The user selects Symbol field

To select desired symbol from symbol drop down list.

3. The user selects Account field

To enter the desired account number.

4. The user selects Start time

To enter the start time for displaying trades occurred during Start Time and End Time.



5. The user selects End Time

To enter the end time for displaying trades occurred during Start Time and End Time.

6. The user selects Trader field

To select the trader ID belonging to the same member house. If the user is child he/she restricted with his/her own ID.

7. The user selects Type field

To select the desired order type from the following options

- BUY
- SELL

8. The user presses enter

To show all the trades matching the given criteria

9. The user clicks on Refresh Button

To refresh the data shown in a table

10. The user clicks on Save Button

To save the table data in a file

11. The user clicks on print button

To take a print out of the data shown in table



1.1.1.48 Print Messages

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Type: HP LaserJet 5L	
Where: LPT:PS03E7-1	_
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Print range	Copies
	Number of <u>c</u> opies: 1
C Pages from: 1 to: 1	
C Selection	
	OK Cancel

Figure 47: Print Messages

The print messages screen at TWS allows the user to print all the messages since the start of the system. It is needed and used for record keeping.

- 1. The user clicks on Printing Menu.
- 2. The user chooses Print Messages from the drop down menu.



1.1.1.49 Print History Messages

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Figure 48: Print History Messages

The Print History Messages Screen is needed to print already saved messages.

- 1. The user clicks on Printing Menu.
- 2. The user chooses Print History Messages from the drop down menu.

To view the Print History Messages the user interacts with the following fields:

1. The user selects saved messages

To select any message from the list of all saved messages.

2. The user clicks on print button

To execute the print instructions and the default print dialog box is displayed.



1.1.1.50 Purchase Release

🚺 Ultra Trade						
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		Figure 4	49: Print Histor	y Messages		

The Purchase Release Screen is needed to choose to release any buy trade, once the release session is opened.

- 1. The user clicks on Settlement Menu.
- 2. The user chooses Purchase Release from the drop down menu.

To view the Purchase Release the user interacts with the following fields:

1. The user selects All check box

To select all the buy orders shown in a below table

2. The user clicks on Release

To release/Unrelease the selected buy order

3. The user clicks on Save button

To executes the release instructions for all chosen orders.



1.1.1.51 Sale Release

🔀 Ultra Trade						
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		Fi	gure 50: Sale R	elease		

The Sale Release Screen is needed to choose to release any buy trade, once the release session is opened.

- 1. The user clicks on Settlement Menu.
- 2. The user chooses Sale Release from the drop down menu.

To view the Sale Release the user interacts with the following fields:

1. The user selects All check box

To select all the sell orders shown in a below table

- 2. The user clicks on Release To release/Unrelease the selected sell order
- **3.** The user clicks on Save button To executes the release instructions for all chosen orders.



1.1.1.52 Window Menu

👗 Ultra Trade				
File Order Watch Reports Printing Settlement Window Help	System			
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Figure 51: Window Menu				

The window menu at TWS is used to list all sub-windows that have currently opened on the TWS. User can click on any window from the list to bring it in front. Cascade option is used to arrange all open windows on TWS so that they overlap each other, with the title bar visible.

1. The user clicks on Window Menu.



1.1.1.53 About TWS





The About TWS option is used to shows current version, TWS Release Date, TWS Release Time and other related information.

- 1. The user clicks on Help Menu.
- 2. The user chooses About TWS from the drop down menu.