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ENERGY EXCHANGE ISTANBUL (EXIST)

# Intraday Market Web Application

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## User Guide

MARKET OPERATIONS DIRECTORATE



This document describes screens and rules of Intraday Market Web Application which has come into service as of July 1st, 2015.

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## 1 INTRODUCTION

As efforts and works are carried out to ensure Turkish Electricity Market becomes more transparent, more efficient, financially stronger, more integrated with European markets; establishment of the Intraday Market mainly aims for participants of the Turkish Electricity Market- which is continuously developing and advancing towards a more free market structure- to take a more-balanced and active role.

In addition to operational Day-Ahead, Ancillary Services and Balancing Markets, Intraday Market provides market participants the opportunity to continue trading closer to real time and balancing their portfolios in short term.

Intraday Market acts as a bridge between the Day-Ahead and the Balancing Markets, herewith this characteristic it primarily contributes to the balancing and the sustainability of the electricity markets

As Intraday Market becomes operational, factors resulting in imbalance such as utility breakdowns and fluctuations of power generation from renewables, can be mitigated; market participants are allowed to minimize or balance positive/negative imbalances that they might experience during the day.

Participants can utilize their capacities through Intraday Market trading following the closure time of the Day ahead Market and hereby an additional trading ground has been established. Thus, trading and balancing volume of the Balancing Market expected to be decreased accordingly.

## 2 INTRADAY MARKET GENERAL PRINCIPLES

- Any license holder legal entity that signs the Intraday Market Participation Agreement, comprises obligations for participation, can join the Intraday Market.
- Intraday Market transactions are executed on an hourly basis every day.
- In case a new order matches with an existing offer on order book, exchange price would be equal to the price of the existing offer.
- Settlement prices applied for Intraday Market transactions, are defined by taking into account all orders and trades executed in Intraday Market, for each settlement period and matching.
- Regarding to Intraday balancing practices of participants following the settlement calculations; advance payment notification consist of participant's Intraday Market transaction advance payable or receivable amounts based on each day of a billing month is announced by Market Operator through Central Clearing Bank (TAKASBANK) to respective market participants together with Day-Ahead market advance payments

## 3 PROCESSES

- Intraday market is a continuous market. Orders can be given until 1 hour before the physical delivery and can be updated, cancelled or rendered inactive.
- Intraday market trading is carried out on hourly basis. Intraday Market day begins at 12:00 am (00:00 hours) and ends at 12:00 am (00:00 hours) the following day. Intraday market orders that are given for the following day can only be given after 06:00 pm (18:00 hours) which is also the opening time for Intraday Market contracts for the following day.
- Before trading can take place, collateral requirements are checked twice each working day at 11:00 and 17:00 before the Intraday Market opening time. Participants that are disqualified at 11:00 collateral check may fulfill their respective requirements until 17:00 and may continue trading once they fulfill their respective requirements until the second collateral check at 17:00.
- Unlike the single session tender of the day-ahead market, intraday market orders are interpreted instantaneously and are matched with offers in the opposite side.
- The status of the intraday market orders can be instantaneously monitored over the Intraday Market web application.

## 4 ORDERS

### 4.1 GENERAL PRINCIPLES

- Participants may place their orders in hourly and/or block orders for a particular time period at the Intraday Market. Orders comprise quantity and price information which may vary for different times.
  - a. All prices have a precision of 2 (two) decimal points
  - b. All orders would be given in Turkish Lira(s). (TL/MWh)
  - c. Orders are placed in the form of TL/MWh.
  - d. Orders are placed in Lot(s) in whole numbers. 1 Lot is equivalent to 0.1 MWh.
- Order status are classified as the following:
  - a. **Active:** an order which has not been matched and is waiting on the order book.
  - b. **Passive:** an order which has been de-activated and can be re-activated by the user. Orders in the *Passive* status cannot be traded.
  - c. **Cancelled:** an order which has been cancelled by the user or the market operator due to order type i.e. Immediate or Cancel (IoC), Fill or Kill (FoK), Fixed Time. Cancelled orders cannot be reactivated.
  - d. **Expired:** an order which has not been matched until the predefined expiration time. Expired orders will be deemed void and taken out of the list of other active orders.
  - e. **Matched:** an order which has been matched under given conditions.
  - f. **Partially Matched:** a single hourly order in which the original volume has been partially matched. Unmatched volume remains open until gate closure. When a Partially Matched order is updated, previously placed order would be cancelled and a new order would be placed. Depending on the changes made upon an order, the following conditions might emerge in regard to the matter of priority:
    - i. Decrease in priority:
      - a. Order price changes (increase or decrease)
      - b. Order volume increases
      - c. Order status changed from Passive to Active
    - ii. No change in priority:
      - a. Order volume decreases
  - g. Unmatched orders can be updated, cancelled or rendered inactive until 1 hour before the physical delivery. Participants can change volume, price and status of the order.



- Participants see the best hourly and block orders (ask & bid) pertaining to contracts on the order book. All orders related to a particular contract are accessed from the `Order Depth` screen.
- There is no limit to the number of orders a participant can place for a trade period.
- Minimum Ask/Bid price for the Intraday Market is set to be 0 (zero) TL.
- Orders can only be placed by authorized users of the participant companies on behalf of their organizations.
  - a. Authorized users of the participant companies can place new orders, view orders that might previously be placed by different users from the same organization and update orders.
  - b. As for the matching, latest updates regarding to orders would be taken into consideration.

## 4.2 HOURLY ORDERS

- Hourly orders are considered to be traded as divisible orders i.e. they can be matched partially or as a whole.
- Users can select one of the following 3 order types for placing hourly orders:
  - a. **Active order:** It is the default order type. Placed orders are active for matching until 60 minutes before the physical delivery. In the meantime:
    - i. Unless the order matches, system would change the order status to *Expired* and it would be taken out of the list of other active orders.
    - ii. If the order matches as a whole, system would change the order status to *Matched* and it would immediately be taken out of the list of other active orders.
    - iii. If the order matches partially, system would change the order status to *Matched* and matched part would be taken out of the list of other active orders, remaining part would be kept for matching.
  - b. **Immediate or Cancel (IoC):** This order type are not taken in queue for matching. If this order is placed AND is:
    - i. Matched with awaiting order on the list, order status would change to *Matched*
    - ii. Partially matched, remaining part would be cancelled
    - iii. Not matched, order would be cancelled and would not be processed any further

- c. **Expiration time:** If this type of order is selected, participant would need to provide active duration of order for matching. This duration can only be designated until 60 minutes before the physical delivery
  - d. **Fill or Kill (FoK):** This order type are not taken in queue for matching. When FoK is in place, order would not match partially. If the entire volume of the order does not match, it would be cancelled immediately and cannot be processed any further.
- Hourly order is in the format of PH14012018 and the format consists of the following:
  - a. PH: Power Hour
  - b. 14: Year 2014
  - c. 01: Month 01 i.e. January
  - d. 20: Day 20
  - e. 18: Hour 1800

### 4.3 BLOCK ORDER

- Block orders are not divisible therefore they can only be traded as a whole.
- Each block order is either accepted or rejected for the total time period of contract.
- Block orders would be placed for a minimum of 1 and a maximum of 24 hour(s).
- Block orders cannot include the hours belonging to 2 different of days.
- Users can select one of the following 2 order types for placing block orders:
  - a. **Active order:** It is the default order type. Placed orders are active for matching until 60 minutes before the physical delivery. In the meantime:
    - i. Unless the order matches, system would change the order status to *Expired* and it would be taken out of the list of other active orders.
    - ii. If the order matches, system would change the order status to *Matched* and it would immediately be taken out of the list of other active orders.
  - b. **Expiration time:** If this type of order is selected, participant would need to provide active duration of order for matching. This duration can only be designated until 60 minutes before the physical delivery
- Block order is in the format of PB14012018 and the format consists of the following:
  - a. PB: Power Block
  - b. 14: Year 2014
  - c. 01: Month 01 i.e. January
  - d. 20: Day 20

- e. 19: Block start time 19 00 hours
- f. 04: Duration of the order i.e. 4 hours

## 5 MATCHING

- An order with the best available price has the priority.
- As for 2 orders with the same price, order having earlier system record time, has the priority.
- Orders with the highest bidding price and the lowest asking price are listed on the order book as top offers.

### 5.1 HOURLY ORDERS

- When an order matches with an existing offer, matching price would be equal to existing offer's price.

#### 5.1.1 MATCHING RULES FOR HOURLY BUY ORDERS

Hourly orders in 'buy' side:

- If the bid price is greater or equal to best available ask price of sell order, quantities would be compared:
  - a. If bid quantity is equal to the best ask quantity, orders would match.
    - Transaction would be executed in line with the matching price which is equal to the existing ask price.
    - Order status would be updated as MATCHED, matched sell order would be taken out of the list of other active orders and the list of best available orders would be updated.
  - b. If bid quantity is greater than the best ask quantity, orders would match.
    - Transaction would be executed in line with the matching price which is equal to the existing ask price.
    - Buy order would be executed in the amount of ask quantity. Sell and buy order status would be updated as MATCHED and PARTIALLY MATCHED respectively and matched sell order would be taken out of the list of other active orders.

- As for the remaining bid quantity, a new possible matching; would be searched and unless no match is found, the order would be recorded as the best available bid on the order book. Top orders list would be updated and arranged in order.
- c. If bid quantity is less than the best ask quantity, orders would match.
  - Transaction would be executed according to the matching price which is equal to the existing ask price.
  - Buy order would be executed in the amount of bid quantity. Buy and sell order status would be updated as MATCHED and PARTIALLY MATCHED respectively and partially matched sell order quantity would be updated and kept on the order book.
- If bid price is less than the best ask price, order would be put on the order book among best buy orders based on its price.

### 5.1.2 MATCHING RULES FOR HOURLY SELL ORDERS

Hourly orders in 'sell' side:

- If the ask price is less than or equal to the best available bid price of buy order, quantities would be compared:
  - a. If ask quantity is equal to the best bid quantity, orders would match.
    - Transaction would be executed in line with the matching price which is equal to the existing bid price.
    - Order status would be updated as MATCHED, matched buy order would be taken out of the list of other active orders and the list of best available orders would be updated.
  - b. If ask quantity is greater than the best bid quantity, orders would match.
    - Transaction would be executed in line with the matching price which is equal to the existing bid price.
    - Sell order would be executed in the amount of bid quantity. Buy and sell order status would be updated as MATCHED and PARTIALLY MATCHED respectively and matched buy order would be taken out of the list of other active orders.
    - As for the remaining ask quantity, a new possible matching; would be searched and unless no match is found, the order would be recorded as the best available bid on the order book. Top orders list would be updated and arranged in order.
  - c. If bid quantity is less than the best ask quantity, orders would match.

- Transaction would be executed according to the matching price which is equal to the existing ask price.
  - Sell order would be executed in the amount of ask quantity. Sell and buy order status will be updated as MATCHED and PARTIALLY MATCHED respectively and partially matched buy order quantity would be updated and kept on the order book.
- If ask price is greater than the best bid price, order would be put on the order book among best sell orders based on its price.

## 5.2 BLOCK ORDERS

Order start times, durations and quantities should be equal for block orders to be matched. In addition prices should be proper for matching.

### 5.2.1 MATCHING RULES FOR BLOCK ORDERS IN BUY SIDE

Once a new block order-in buy side-is placed, it is compared with suitable orders on the order book.

- If the starting time, duration and the quantity of a block order in the buy side are equal to those of a sell order:
- In case the ask price is less than or equal to bid price of the newly placed block order-in buy side, orders would match.
  - Transaction would be executed according to matching price which is equal to the existing ask price.
  - Matched order would be taken out of the order book and block order list would be updated.
  - Unless these conditions are met, no matching would be executed and this block order would be added to the block order list.

### 5.2.2 MATCHING RULES FOR BLOCK ORDERS IN SELL SIDE

Once a new block order-in sell side-is placed, it is compared with suitable orders on the order book.

- If the starting time, duration and the quantity of a block order in the sell side are equal to those of a buy order:

- In case the proper bid price is greater than or equal to ask price of the newly placed block order-in sell side, orders would match.
- Transaction would be executed in line with the matching price which is equal to the existing bid price.
- Matched order would be taken out of the order book and block order list would be updated.
- Unless these conditions are met, no matching would be executed and this block order would be added to the block order list.

## **6 SCREENS**

### **6.1 IDM FDGS BALANCING and IDM JUSTIFIED PRICE ORDER UPDATING**

IDM (Intraday Market) FDGS (Final Daily Generation Schedule) balancing operation must be performed by market participants having generation license according to their changes in their generation plans due to IDM transactions. IDM Justified Price Bid Updating must be performed by every market participant having balancing units under generation license. By clicking [tpys.teias.gov.tr](http://tpys.teias.gov.tr) link these two screens can be accessed as of 01.02.2018.

### **6.2 IDM USER AUTHORITY and SELL-BUY LIMITS DETERMINATION**

Determination of user authority for IDM is transacted from [ekys.epias.com.tr](http://ekys.epias.com.tr). Determination of user authority and user limit for an organization is defined by only authorized user of firm. (PK users or users who have transferred the authority of the PK user.). User authorization from EKYS screen must be followed below steps.

### 6.2.1 Authorization Group Learning from EKYS Screen

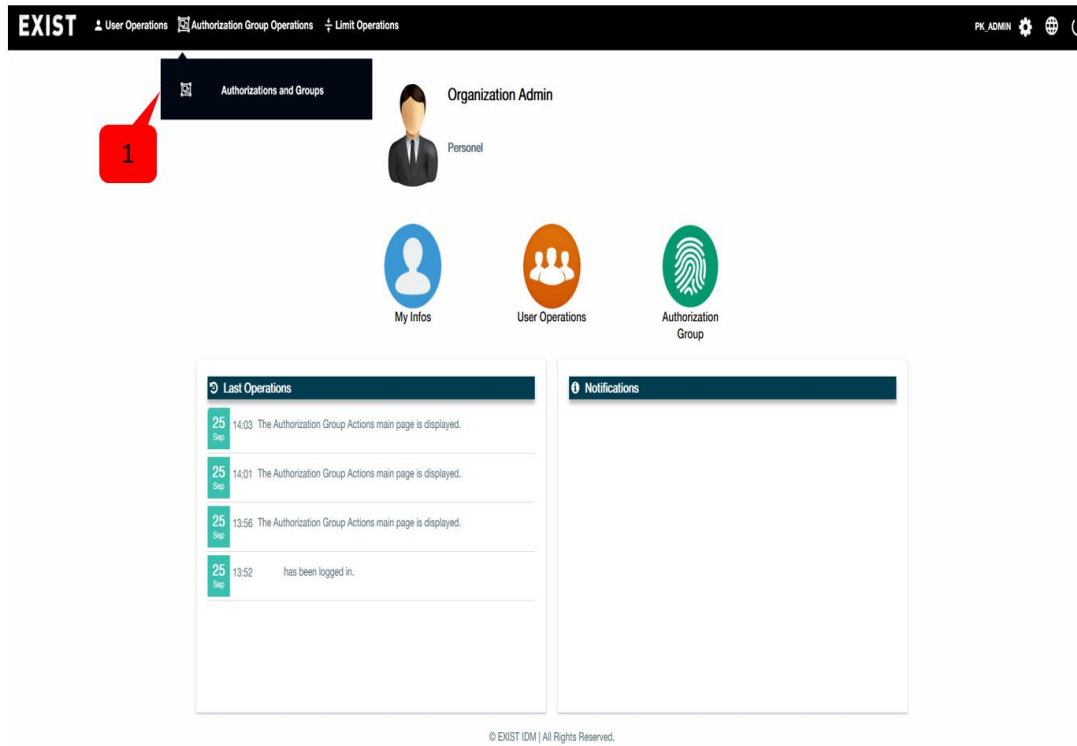


Figure 1: EKYS MP User Main Page

1. Enter the EKYS screen and the Click on “Authorization Group Operations” menu in figure 1 and then select the “Authorizations and Groups” tab.

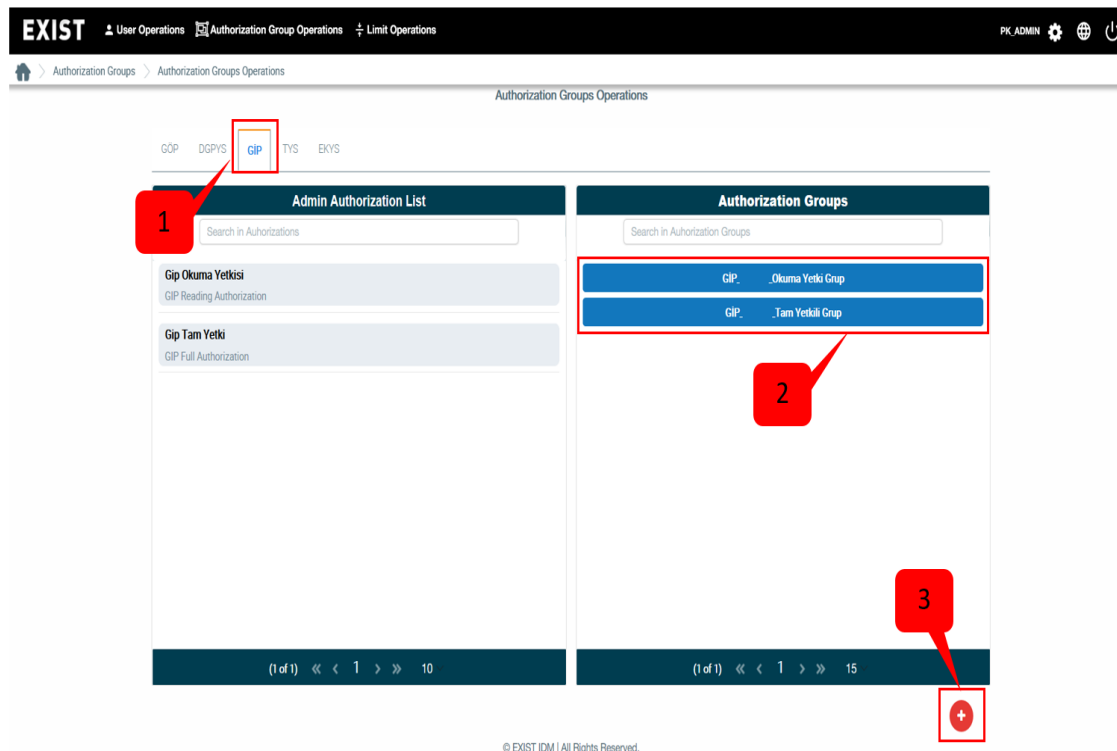


Figure 2: Authorization Group List

1. Authorization listing is displayed with selection of IDM tab in icon “1”. Icon 1 must be selected for IDM authorization.
2. Unless there is authorization group determined in field “2” click on icon “3” to create new authorization group.
3. [EXIST Identity Management System User Guide v 3.0](#) document is used for learning of these transactions.
4. To list authorization details click on authorization group that indicated to field “2”.
5. Follow below steps for assigning authorization and new user to new authorization group created by icon “3”

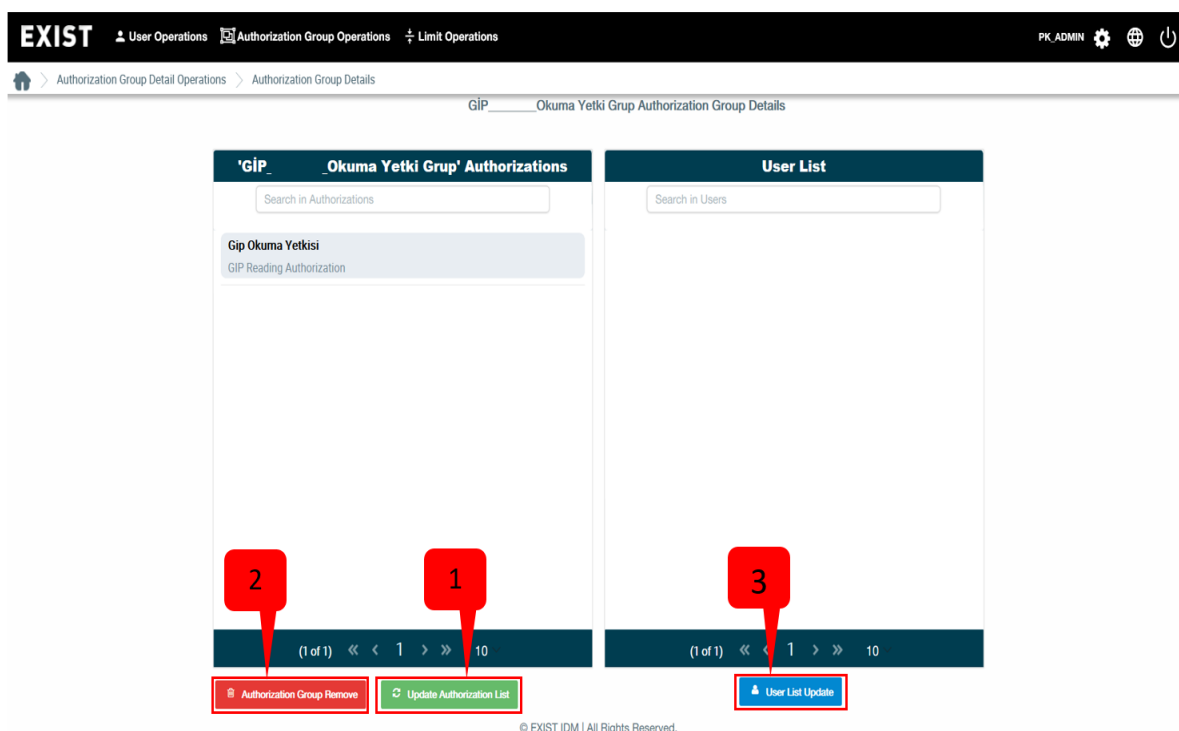


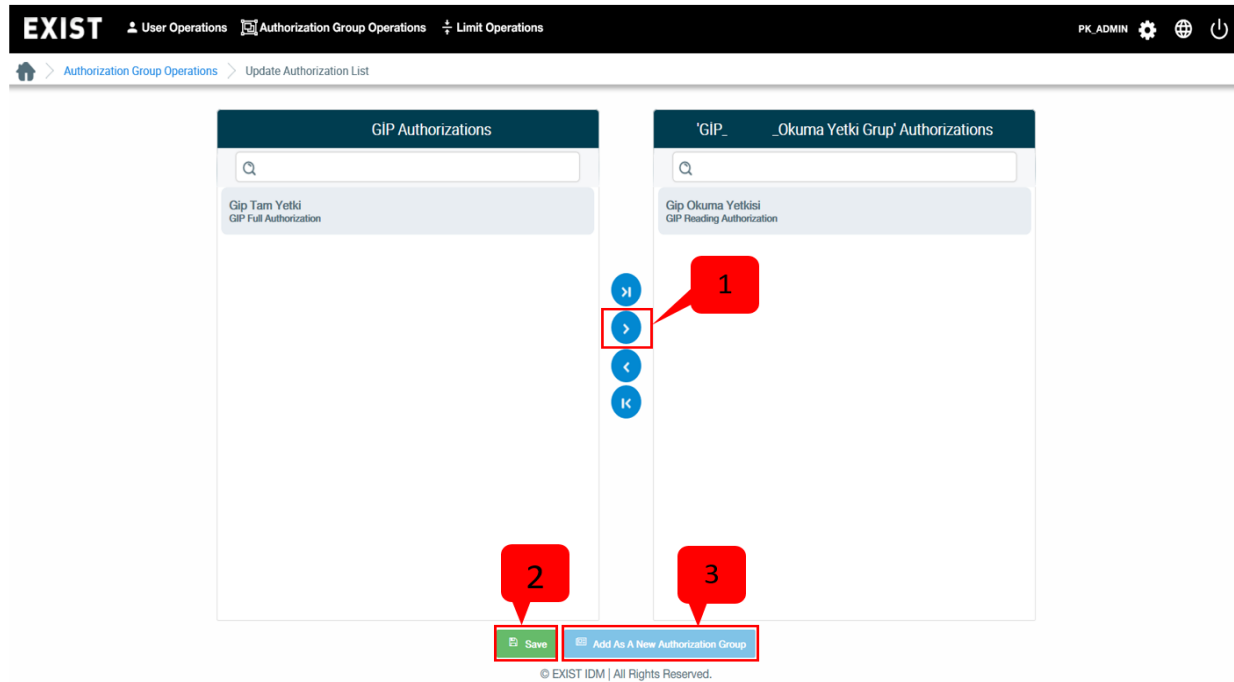
Figure 3: Authorization Group Details

Left side of screen includes authorization fields and right side of screen includes user lists.

1. Click on button “1” to update authorization list.
2. Click on button “2” to delete authorization group.
3. Click on button “3” to assign users to authorization group or remove users from authorization group. Users can open authorization updating page by clicking on button “1”

 ”indicated in figure 4.





**Figure 4: Authorization List Updating**

1. Authorizations included in left column is selected and transferred to right column by clicking button 1.
2. Transactions are saved by clicking button 2.
3. If another new authorization group is necessitated to create from a different authorization group click on button 3 and new authorization group registration will be completed.

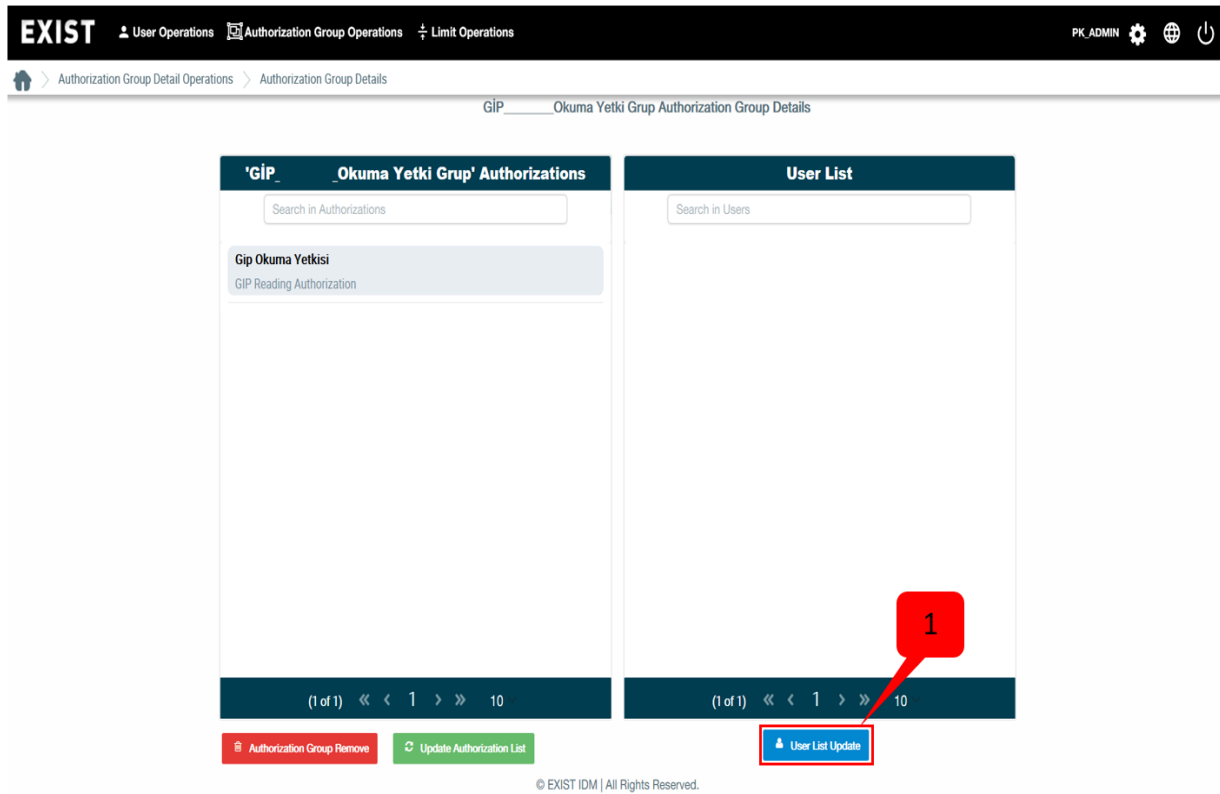


Figure 5: EKYS - User List Updating

After registration, click on button **User List Update** indicated with icon 1 to list required users in authorization group.

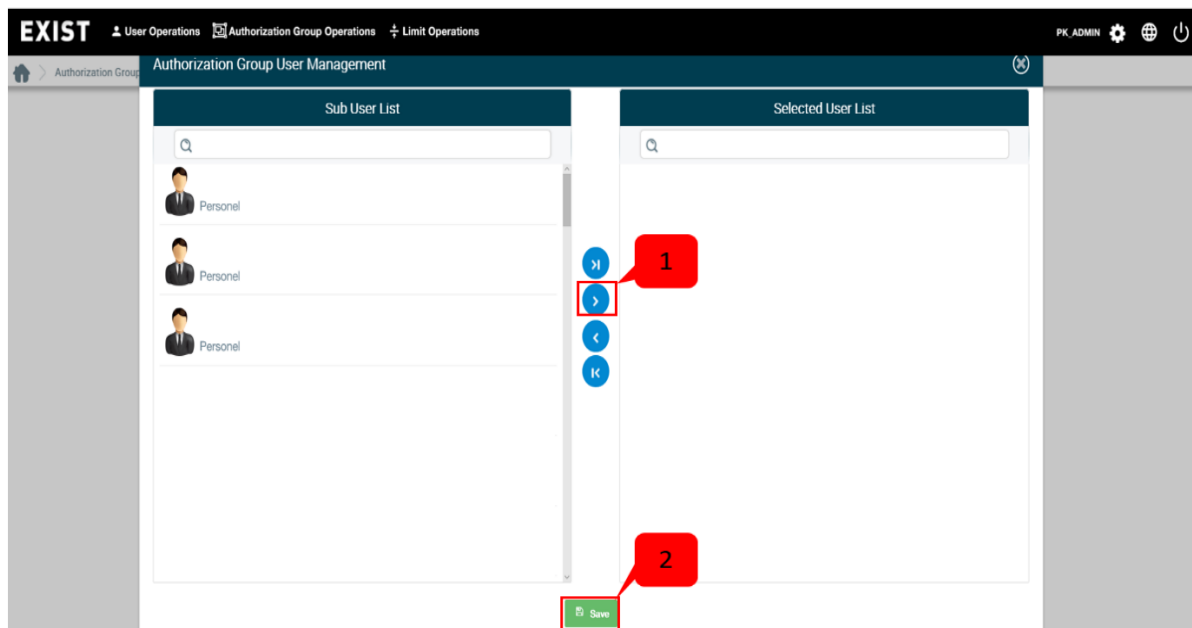




Figure 6: User List Updating Registration

1. Users are selected from user list figured by left column of screen and user is transferred to right column by clicking on button “1” “”.

2. After assigned user list is completed, click on button “2” “” and authorization transaction will be completed.

### Content of Authorization

- a. **Read only:** the user can log in the Intraday Market system and follow transactions but cannot operate any transaction.
- b. **Fully-authorized:** the user can log in the Intraday Market system and operate transactions in accordance with determined limits.

### 6.2.2 IDM User Limits Definition

Limit setting screen is developed for preventing from wrong order entry. IDM limit definition is transacted from <https://ekys.epias.com.tr> for users in organizations. Limitations can only be performed by PK users or with users who have transferred the authority of the PK user.

After logging into the EKYS screen, click on “User Limit Operations” tab from the Limit operations menu in figure 7.

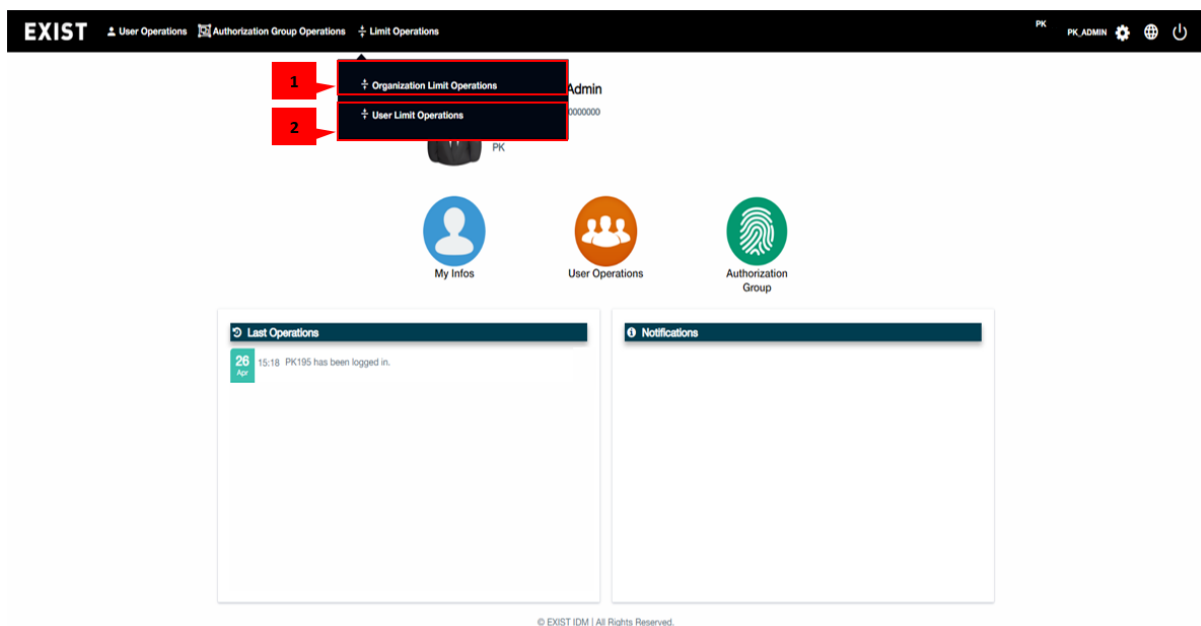


Figure 7: EKYS-PK User Main Page

### 6.2.2.1 Organization Limit Operations

**EXIST** | User Operations | Authorization Group Operations | Limit Operations

Organization Limit Operations

On IntraDay Market:  
Minimum price is 0 TL/MWh  
Maximum price is 2000 TL/MWh  
Buy-sell minimum amount is 1 Lot  
Buy-sell maximum amount is 20,000 Lots  
Note: Amount limits defined in IntraDay market are maximum amounts of single buy-sell offer. It does not define total limits for one hour trade.

Limit Type	Lot	TL/MWh
GIP Bid Quantity Limit	20000	GIP Maximum Bid Price Limit: 2000
GIP Minimum Ask Price Limit	0	Price Deviation With Respect MCP: 2000
GIP Ask Quantity Limit	20000	

Warning! Organization limits can not be modified here. Use this form to apply for your new organization limit offers to EPIAS.

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Figure 8: EKYS - Organization Limit Operations

The Organization Limit Operations determined by the market operator are the upper limit of both the Admin Limits and the User Limit in the Intraday Market.

- Shows the market where the limits are valid and organization limits are set.
- Indicates the trade limits for the Intraday Market. Click on the relevant field will indicate the trade limits in the pop-up.
- Indicates the area where the “Organization Limits Update Request Form” will be downloaded to request replacement for the limits set by the Market Operator. The Market Operator must fill in the request form and send it to the Market Operator with official letter.

### 6.2.2.2 User Upper Limits

**EXIST** | User Operations | Authorization Group Operations | Limit Operations

User Upper Limit Operations

User List

Select All

Search in Users

Alper ARSIZ  
Personel

Ayden ARSIZ  
Personel

(1 of 76)

User Upper Limits

GIP Bid Quantity Limit: 20000 Lot

GIP Ask Quantity Limit: 20000 Lot

GIP Minimum Ask Price Limit: 0 TL/MWh

GIP Maximum Bid Price Limit: 2000 TL/MWh

Make Order Check With Respect MCP: ☒ OFF ☐ ON

Price Deviation With Respect MCP: 2000 TL/MWh

Save

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Figure 9: EKYS - User Upper Limits

Admin user displays all users and determines limits in “User Limit Operations” page. Admin user can select other users with single clicking or multiple selection. Admin limit is performed by PK users or with users who have transferred the authority of the PK user.

1. Click on the “Select All” button by the Admin User (PK User), user upper limits are applied for all users in the user list.
2. User upper limits operations are performed for the selected user in the user list.
3. Shows the market where the user upper limits are valid and organization limits are set.
4. View the bid/ask quantity limits set by the Admin user (PK user).
  - a) IDM Bid Quantity Limit
  - b) IDM Ask Quantity Limit
5. View the bid/ask price limits set by the Admin user (PK user).
  - a) IDM Minimum Ask Price Limit
  - b) IDM Maximum Bid Price Limit
6. Activate/Inactivate order check with respect to MCP in order to Intraday Market ask/bid hourly or block order price.
  - The following warning (Figure 10) is displayed when an order is submitted outside the admin-specified limits.

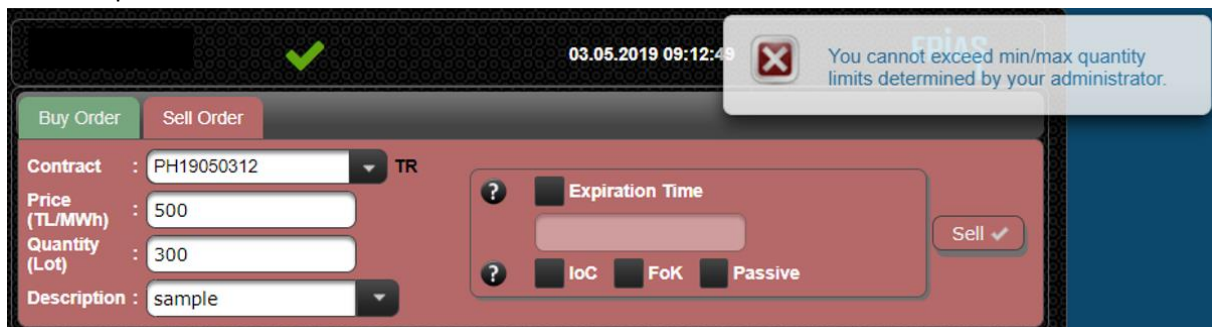
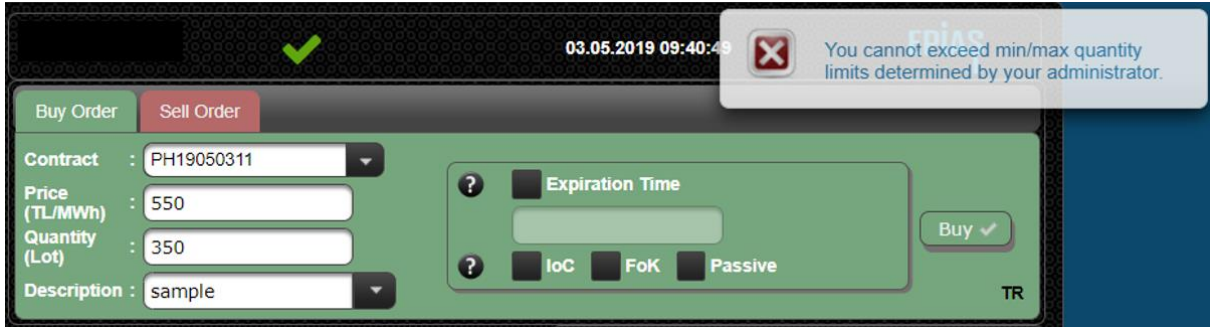


Figure 10: Limit Exceed Warning Screen

7. The area where the deviation amount the hourly and block order prices to be submitted to the Intraday Market (IDM) will be determined according to the Market Clearing Price (MCP) in the Day Ahead Market (DAM).
  - If your hourly or block sales order price is below from the MCP value entered in the relevant field, your hourly or block purchase order price above from the MCP value entered in the relevant field, the order will not be saved and the following warning will appear (Figure 11).



The screenshot displays the EPIAS Intraday Market User Interface. At the top, a green checkmark and the timestamp '03.05.2019 09:40:49' are visible. A red 'X' icon and a message box state: 'You cannot exceed min/max quantity limits determined by your administrator.' The interface includes tabs for 'Buy Order' and 'Sell Order'. The 'Buy Order' tab is active, showing the following fields: 'Contract' (PH19050311), 'Price (TL/MWh)' (550), 'Quantity (Lot)' (350), and 'Description' (sample). To the right of these fields are checkboxes for 'Expiration Time', 'IoC', 'FoK', and 'Passive'. A 'Buy' button with a green checkmark is located at the bottom right of the form. The text 'TR' is visible in the bottom right corner of the interface.

Figure 11: Order Check with respect to Market Clearing Price

8. Enables changes to the User Upper Limits page.

**Attention:**

1. Limitations can only be performed by PK users or with users who have transferred the authority of the PK user.
2. Both buy orders and sell orders are placed in Lot(s) unit in positive numbers.
3. Orders are placed in TL/MWh.
4. Order volume are placed in whole numbers
5. Registration can be made by selecting multiple users.

## 6.3 HOMEPAGE (EXIST)

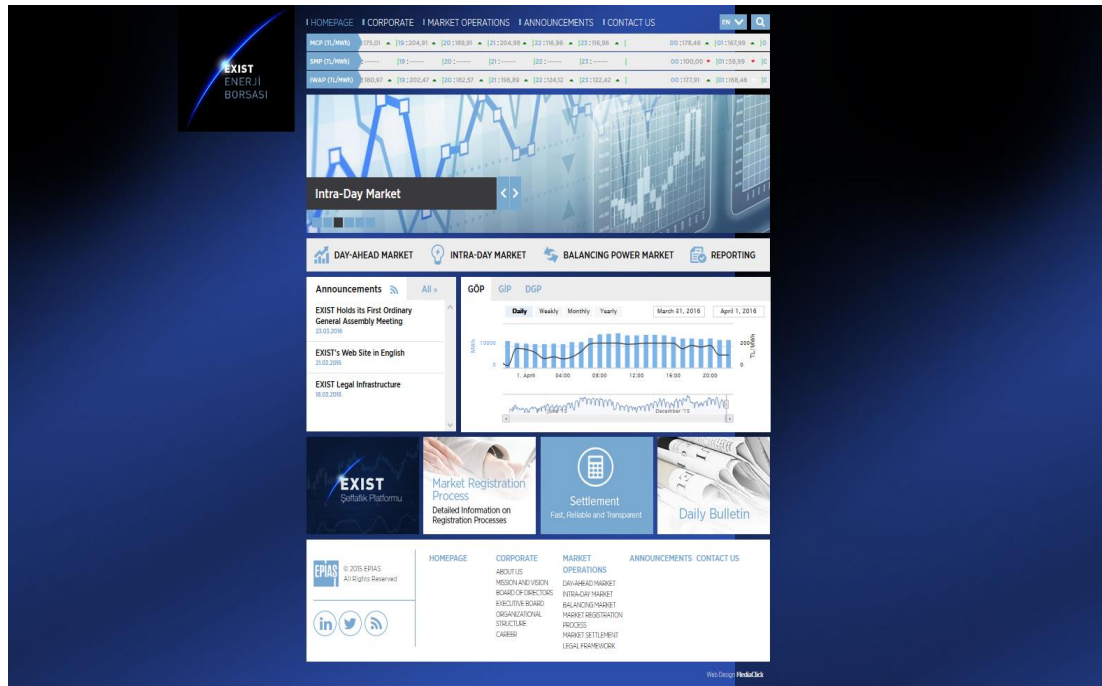


Figure 12: EXIST Portal Screen

- THE ENERGY EXCHANGE of TURKEY (EXIST) system website can be accessed at [www.epias.com.tr](http://www.epias.com.tr)
- Essential documents and information, notifications and market reports can be accessed at EPIAS's website.
- In the English version of the website, user can click the "DAY-AHEAD MARKET" button and access the Day a-head Market portal.
- User can click the "INTRADAY MARKET" button and access the Intraday Market's website.
- User can click the "BALANCING POWER MARKET" button and access Balancing Power Market's website.

The screenshot shows the 'EXIST SYSTEM LOGIN' page. On the left, there's a dark background with the EXIST logo and the text 'EXIST SYSTEM LOGIN'. On the right, there's a white box titled 'USER LOGIN'. Inside this box, there are two input fields: 'Username' and 'Password'. Below these fields are two buttons: 'SMS REQUEST' and 'CLEAR'. At the bottom of the white box, there's a small icon and a note: 'For security reasons, please Log Out and Exit your web browser when you are done accessing services that require authentication!'.

Figure 13: Intraday Market Entry Page

- To access Intraday Market's portal, participants can use their Balancing Power Market username and password. System will send a temporary authentication password to user's mobile phone; this password will be used to enter system.

## 6.4 HOMEPAGE



Figure 14: Intraday Market Participant Screen

- After entering the IM application with appropriate user name and password, the above homepage screen will be displayed. On the homepage screen:
1. Displays system time.
  2. Provides logging out from system.
  3. Opens setting.
  4. Displays user name and organization.
  5. Entry field for hourly orders
  6. Entry field for block orders
  7. Entry field for objection list screen.
  8. This field includes required communication information for emergence situations.



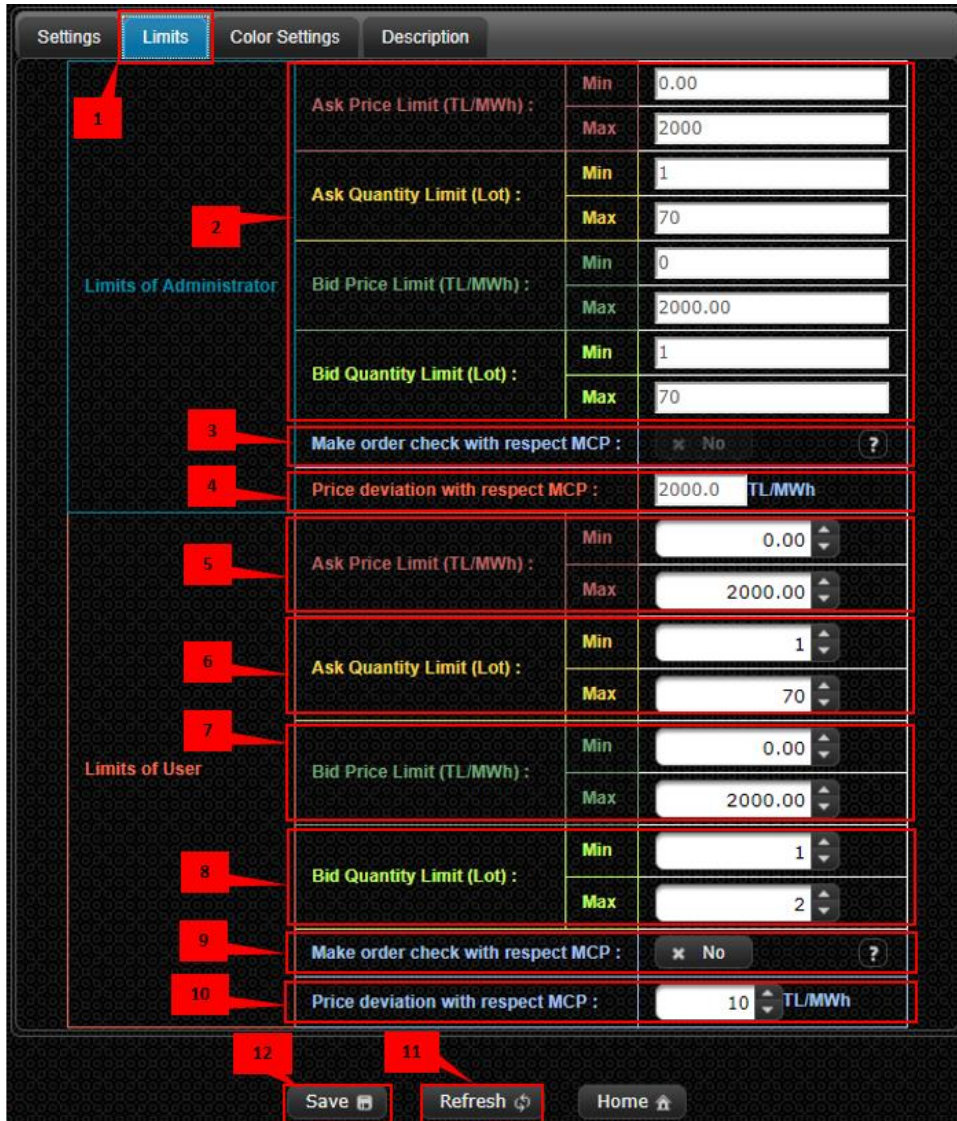
9. Entry field for reports screen.
10. Displays user guide.

## 6.5 SETTINGS SCREENS

Figure 15: Intraday Market Settings Screen

- Participants should define order limits and preferred language in case they log in to intraday system first time.
  - Order limit will prohibit incorrect order entry and prevent faulty trading. Participant is responsible for changes in limits.
  - Theme and color settings can be customized for using user-interface more efficiently. Screen display color settings can be changed under `Settings` tab.
1. Provides selection between the general settings and the description.
  2. Intraday portal can be used in Turkish and English languages. Default system language is Turkish.

3. Intraday portal theme can be selected among other listed themes. Default system theme is Dark-Hive.
4. Number of contracts to be displayed in Order Depth can be changed. By default number of contracts to be displayed in Order Depth is 100.
5. Display duration of error, warning and notification messages can be customized in seconds. By default display duration is 15 seconds.
6. Change the desired time to be remained signed in the system.
7. Type of notification to the user who has a matched order can be set off, set on with e-mail notification, set on with SMS notification, or set on for both SMS and e-mail notification at this combo box.
8. If the matched volume in each contract is equal to or greater than the value entered in this field, the result information is sent to E-mail and/or SMS. If the hourly order is partially matched, then the result information is sent if the sum of the matched volume is above the value entered in this field. The unit of the minimum result notification volume is Lot.
9. Contract Detail Notification can be set on or set off via this button.
10. Enables saving of the changes made. Unregistered changes will not apply.
11. Updates the limit changes made from <https://ekys.epias.com.tr>.
12. Forward to the Intraday Market home page.



Section	Field	Min	Max
Limits of Administrator	Ask Price Limit (TL/MWh) :	0.00	2000
	Ask Quantity Limit (Lot) :	1	70
	Bid Price Limit (TL/MWh) :	0	2000.00
	Bid Quantity Limit (Lot) :	1	70
Limits of User	Ask Price Limit (TL/MWh) :	0.00	2000.00
	Ask Quantity Limit (Lot) :	1	70
	Bid Price Limit (TL/MWh) :	0.00	2000.00
	Bid Quantity Limit (Lot) :	1	2

Make order check with respect MCP : ☐ No ?

Price deviation with respect MCP : 2000.0 TL/MWh

Make order check with respect MCP : ☐ No ?

Price deviation with respect MCP : 10 TL/MWh

Buttons: Save, Refresh, Home

Figure 16: Intraday Market Limit Settings Screen

1. Display the Intraday Market Limits Page.
2. Limits are determined by the Admin user assigned by the market participant on the EKYS screen.
3. View the “make order check with respect to MCP” option on the “User Upper Limit Operations” page at <https://ekys.epias.com.tr>.
4. View the “Price Deviation with respect to MCP” option on the “User Upper Limit Operations” page at <https://ekys.epias.com.tr>.
5. Minimum and maximum price limits are defined for an ask.
6. Minimum and maximum quantity limits are defined for an ask.
7. Minimum and maximum price limits are defined for a bid.
8. Minimum and maximum quantity limits are defined for a bid.
  - If the hourly or block order is outside the user-defined limits, the warning screen (Figure 17) appears below. These limits are set within the range of values that are limited by admin user on the EKYS screen.

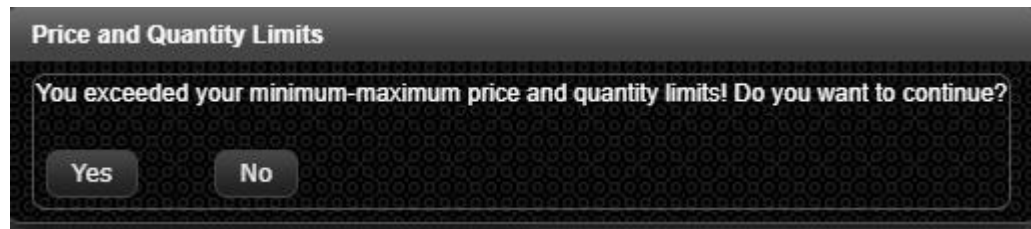


Figure 17: Volume-Price Limit Warning Screen

- If the participant wants to continue trading even though it exceeds the limits, the transaction takes place, if he does not want to continue, the transaction is cancelled and the order is entered again.
9. Activates block or hourly order check with respect to MCP. ☒ Yes should be chosen if user desires to activate MCP check and ☒ No should be chosen if user does not desire. Even if the user has selected this field, the order control will be performed if the “make order check with respect to MCP” is selected within the administrative limits.
  10. The hourly and block order prices to be offered to the Intraday Market (IDM) are determined by the user according to the market clearing price (MCP) formed in the Day Ahead Market (DAM). The user cannot exceed the value specified by the administrator when entering this value.

Pop-up screen warning shows up if hourly/block ask prices' deviation according to MCP is lower than the value entered into the field or if hourly/block bid prices' deviation according to MCP is higher than the value entered into the field.

If hourly bids are submitted and pressed  button, the following pop-up screen will be displayed in case bid price deviation is above determined limit. User should press  button if he wants to approve the order and should press  if he does not want to approve the order.

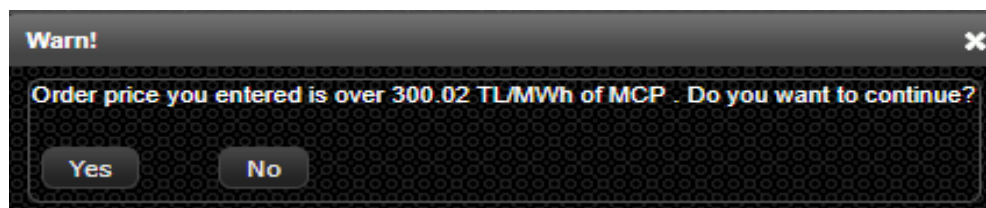


Figure 18: Hourly Bids Pop-Up Screen Warning

If hourly asks are submitted and pressed  button, the following pop-up screen will be displayed in case ask price deviation is below the determined limit. User should press  button if he wants to approve the order and should press  if he does not want to approve the order.



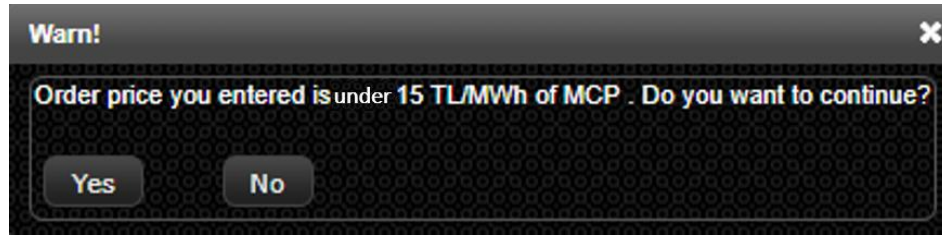


Figure 19: Hourly Asks Pop-Up Screen Warning

If block bids are submitted and pressed **Submit ✓** button, the following pop-up screen will be displayed in case bid price deviation is above determined limit. User should press **Yes** button if he wants to approve the order and should press **No** if he does not want to approve the order.

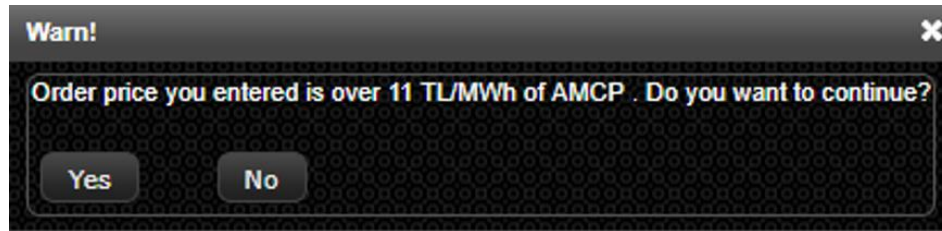


Figure 20: Block Bids Pop-Up Screen Warning

If block asks are submitted and pressed **Ver ✓** button, the following pop-up screen will be displayed in case ask price deviation is below the determined limit. User should press **Yes** button if he wants to approve the order and should press **No** if he does not want to approve the order.

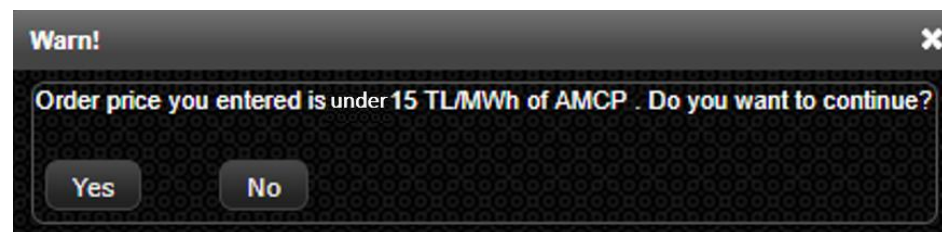
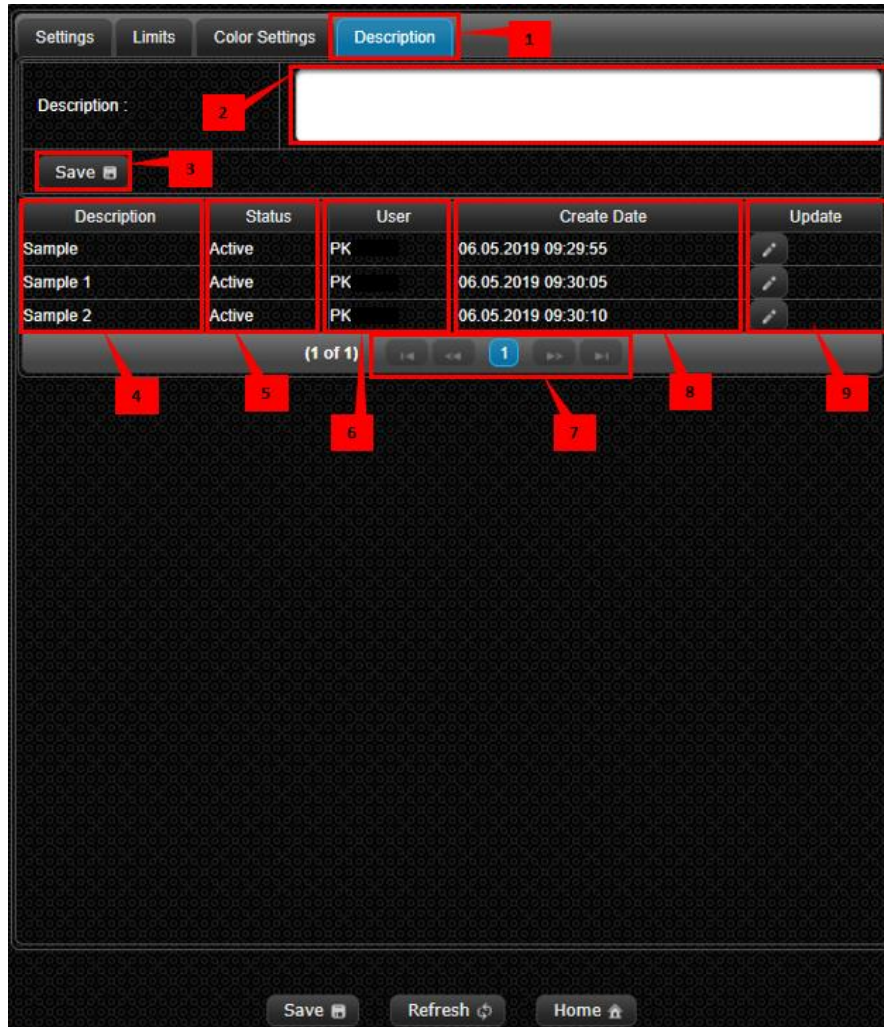


Figure 21: Block Asks Pop-Up Screen Warning



Figure 22: Intraday Market Color Settings Screen

1. Display the "Color Settings" page of the Intraday Market.
2. When there is a lower or a higher priced offer placed in the sell side, the display color of that line can be customized separately based on the status of that order.
3. When there is a lower or a higher priced offer placed in the buy side, the display color of that line can be customized separately based on the status of that order.
4. After each matching, the display color of the system trend can be customized separately based on the status of matching.
5. The display color of the 'Order Depth' can be customized.
6. The display color of the 'Order Status' can be customized. Orders that are placed by participants are compared against limiting price and quantity values.
7. The display color of the sell and buy offers that are viewed on the offer page can be customized.



The screenshot shows the 'Description' tab selected in the top navigation bar. Below the tab is a text input field for the description, followed by a 'Save' button. A table below lists existing descriptions with columns for Description, Status, User, Create Date, and an Update icon. At the bottom of the table is a pagination control showing '(1 of 1)' and a page number '1'. At the very bottom of the screen are 'Save', 'Refresh', and 'Home' buttons.

Description	Status	User	Create Date	Update
Sample	Active	PK	06.05.2019 09:29:55	
Sample 1	Active	PK	06.05.2019 09:30:05	
Sample 2	Active	PK	06.05.2019 09:30:10	

Figure 23: Intraday Market Description Screen

1. Display the "Description" page of the Intraday Market.
2. Users add comments to this field. There is a limit of 55 characters. In order to see the comments added, the "description" section can be used in the order entry panels under the "quantity" field.
3. Allows the entered description to be saved.
4. The column in which the name of the descriptions entered is listed.
5. The column in which the status of the descriptions entered is sorted.
6. The column in which the users who add the entered descriptions are sorted.
7. Up to 20 descriptions can be seen on a page. Through this field, subsequent descriptions can be displayed by switching between pages.
8. Displays the date of the entered descriptions. Comments are sorted according to the date of entered.



9. Allows the user to update the entered description. Click on this button and the description will be as follows.




Figure 24: Description Page Update Screen

1. If the relevant description is wanted to be deleted, the situation should be inactive.
2. With this button, the passive description can be deleted. At the same time, the user can change the content of the description and update it via this button.
3. Allows you to exit without modification from the update field.

## 6.6 SINGLE HOURLY ORDER SCREENS

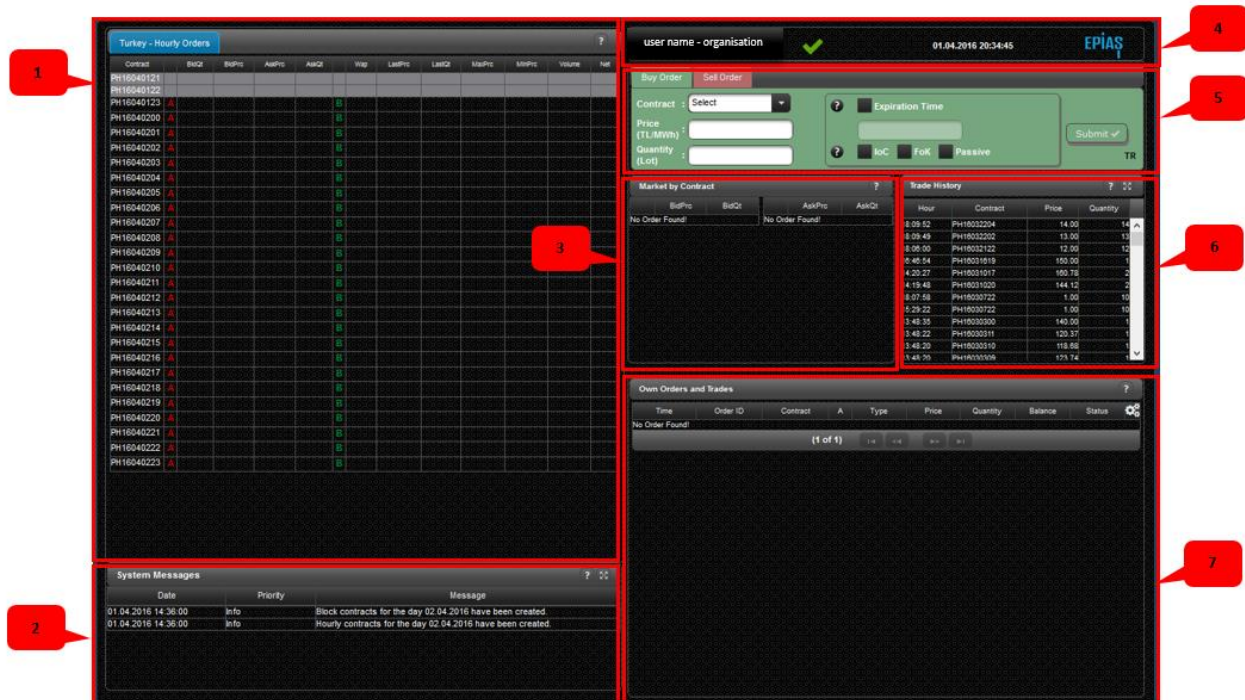


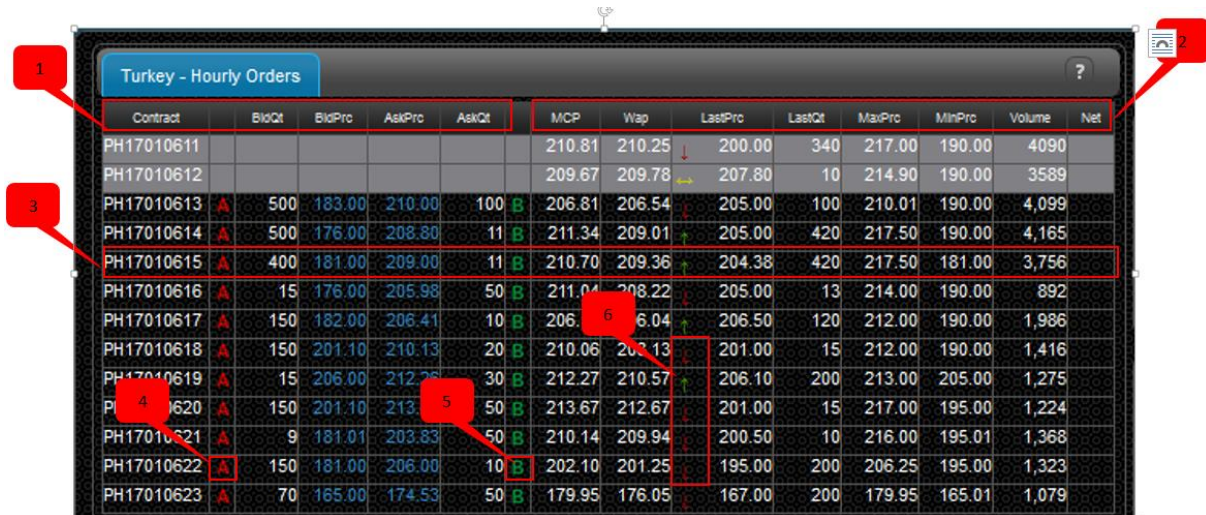
Figure 25: Single Hourly Order Homepage

- Single Hourly Order Market page can be viewed via selecting Single Hourly Order section from Intraday Market homepage.



- Certain sections of the screen shown above (FIGURE-8) will be explained in detail in the following parts of this manual.

### 6.6.1 SINGLE HOURLY ORDER BOOK




Contract	BlkQt	BlkPrc	AskPrc	AskQt	MCP	Wap	LastPrc	LastQt	MaxPrc	MinPrc	Volume	Net
PH17010611					210.81	210.25	200.00	340	217.00	190.00	4090	
PH17010612					209.67	209.78	207.80	10	214.90	190.00	3589	
PH17010613	A	500	183.00	210.00	100	B	205.00	100	210.01	190.00	4,099	
PH17010614	A	500	176.00	208.80	11	B	205.00	420	217.50	190.00	4,165	
PH17010615	A	400	181.00	209.00	11	B	204.38	420	217.50	181.00	3,756	
PH17010616	A	15	176.00	205.98	50	B	205.00	13	214.00	190.00	892	
PH17010617	A	150	182.00	206.41	10	B	206.50	120	212.00	190.00	1,986	
PH17010618	A	150	201.10	210.13	20	B	201.00	15	212.00	190.00	1,416	
PH17010619	A	15	206.00	212.26	30	B	206.10	200	213.00	205.00	1,275	
PH17010620	A	150	201.10	213.26	50	B	201.00	15	217.00	195.00	1,224	
PH17010621	A	9	181.01	203.83	50	B	200.50	10	216.00	195.01	1,368	
PH17010622	A	150	181.00	206.00	10	B	195.00	200	206.25	195.00	1,323	
PH17010623	A	70	165.00	174.53	50	B	167.00	200	179.95	165.01	1,079	

Figure 26: Single Hourly Order Book

- The display color of the values on the order book can be customized from the Settings menu.
- Best bid and ask priced offers with quantities are listed under this section.
    - Quantities of orders with the same price level and side (buy or sell) are aggregated and shown under orders list.
    - Detailed information in regard to orders can be viewed under order depth.
  - Trading data regarding contracts can be viewed under this section.
    - MCP** shows Day-Ahead market clearing price of the hour that contract under consideration is associated
    - Wap** shows the weighted average price of exchanges succeeded at contract under consideration
    - LastPrc** shows the price of the latest exchange succeeded at contract under consideration
    - LastQt** shows the quantity of the latest exchange succeeded at contract under consideration
    - MaxPrc** shows the value of the maximum priced exchange succeeded at contract under consideration so far
    - MinPrc** shows the value of the minimum priced exchange succeeded at contract under consideration so far

- g. **Volume** shows the sum of ask and bid quantities contract under consideration so far
- h. **Net** shows the difference of ask and bid quantities of participant's own orders that already matched at contract under consideration so far
- 3. For contract **PH17010615** the following information can be viewed: Best buy and sell orders, price and quantity information of the latest trade, minimum and maximum price information of the previously executed exchanges and trade volume of the related contract.
- 4. When button "**A**" is clicked, order will automatically be filled in the *Single Hourly Ask* field based on the best buy offer information for this related contract under Single Hourly Order Market and once the user clicks *Ask* button order will be placed.
- 5. When button "**B**" is clicked, order will automatically be filled in the *Single Hourly Bid* field based on the best sell offer information for this related contract under Single Hourly Order Market and once the user clicks *Bid* button order will be placed.
- 6. Compares the price of the latest exchange with the previously succeeded trade under same contract.
  - a. "↑" shows that the price of the latest exchange is greater than the former matching price.
  - b. "↔" shows that the price of the latest exchange is equal to the former matching price.
  - c. "↓" shows that the price of the latest exchange is less than the former matching price.

### 6.6.2 SINGLE HOURLY ORDER SCREEN MESSAGES



System Messages		
Date	Priority	Message
01.04.2016 14:36:00	Info	Block contracts for the day 02.04.2016 have been created.
01.04.2016 14:36:00	Info	Hourly contracts for the day 02.04.2016 have been created.


Figure 27: Single Hourly Order Screen Messages

1. System messages published by EPIAS can be viewed here.
2. User can click "✕" button in the right hand corner to expand and view messages in a pop-up window

### 6.6.3 SINGLE HOURLY ORDER SCREEN STATUS BAR



Figure 28: Single Hourly Order Screen Status Bar

1. Guarantee adequacy check:
  - a. If the icon is green, guarantee is adequate.
  - b. If the icon is red, guarantee is inadequate and participant cannot trade.
  - c. When you click the  symbol, pop-up figure 15 would open.

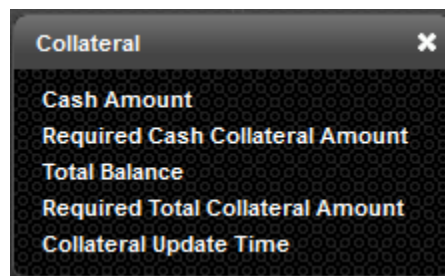


Figure 29: Collateral Standing Pop-up Screen

- On the pop-up screen, “Cash Amount”, “Required Cash Guarantee Amount”, “Total Balance”, “Required Total Guarantee Amount” and “Guarantee Update Time” can be displayed related to online user’s organization.
2. Shows the Intraday Market Web Application system date and time information.
  3. It indicates that system is enabled or disabled state.
    - a. If the color of “EPIAS” logo is blue, system is enabled.
    - b. If the color of “EPIAS” logo is red, system is disabled.

## 6.6.4 SINGLE HOURLY ORDER ENTRY SCREEN

### 6.6.4.1 SINGLE HOURLY ASK ENTRY

The screenshot shows the 'Single Hourly Sell Order Entry' interface. It features a top bar with 'Buy Order' and 'Sell Order' tabs. Below this, there are several input fields and checkboxes. On the left, a vertical list of callouts (1-4) points to the 'Contract', 'Price (TL/MWh)', 'Quantity (Lot)', and 'Description' fields. On the right, callouts (5-9) point to the 'Expiration Time' field, the 'IoC', 'FoK', and 'Passive' checkboxes, and the 'Sell' button. The 'Contract' field contains 'PH19050710' and 'TR'. The 'Price' field contains '123'. The 'Quantity' field contains '45'. The 'Description' field contains 'Hydro Power Plant'. The 'Expiration Time' field is empty. The 'IoC' checkbox is checked, while 'FoK' and 'Passive' are unchecked. The 'Sell' button is highlighted with a red box and a checkmark.

Figure 30: Single Hourly Sell Order Entry

1. User can select a predefined single hourly order contract from the drop down menu.
2. Order price are entered in this field.
  - a. Orders are placed in TL/MWh
  - b. Currency is in Turkish Lira(s) (TL)
  - c. Have a precision of 2 decimal points ("Kuruş" sensitivity)
3. Order quantity is entered in this field. Orders are placed in Lot(s) in whole numbers.
4. This is the area to which to write an hourly sales order description. A saved description can be added or a new description can be added to this field.
  - Adding description is optional and not mandatory.
  - Up to 10 descriptions can be displayed in alphabetical order in the order entry panels.
  - If the number of description exceeds 10, any character contained in the description can be entered and the description can be found.
5. If the user is willing to place a single hourly order and keep it active for a certain amount of time, expiration field should be checked.
  - a. Once this option is activated, user selects the expiration date and time.
6. Participant can place a single hourly order using the IoC (Immediate or Cancel) option by checking this field.
  - a. IoC selection can be used with Passive function.
7. Participant can place a single hourly order using the FoK (Fill or Kill) option by checking this field.
  - a. FoK selection can be used with Passive option.
8. Participant can place a single hourly order for a future use via checking *Passive* field.

- a. Passive order selection can be used simultaneously with one of Expiration Time, IoC and FoK options. For that case, order is recorded as passive; once turned into Active, it becomes active based on recorded selection options.
9. Once the contract, quantity and price information are defined and input, order can be placed via clicking Ask button.

#### 6.6.4.2 SINGLE HOUR BID ENTRY

The screenshot shows the 'Single Hourly Buy Order Entry' interface. It features a top bar with 'Buy Order' and 'Sell Order' tabs. Below this, there are four input fields on the left: 'Contract' (with a dropdown menu), 'Price (TL/MWh)', 'Quantity (Lot)', and 'Description' (with a dropdown menu). To the right of these fields is a section for order options, including 'Expiration Time' (with a question mark icon), 'IoC' (with a question mark icon), 'FoK' (with a checked checkbox), and 'Passive' (with an unchecked checkbox). At the bottom right, there is a 'Buy' button with a checkmark and a 'TR' label. Red numbered callouts (1-9) point to specific elements: 1 points to the Contract dropdown, 2 to the Price field, 3 to the Quantity field, 4 to the Description dropdown, 5 to the Expiration Time section, 6 to the IoC checkbox, 7 to the FoK checkbox, 8 to the Passive checkbox, and 9 to the Buy button.

Figure 31: Single Hourly Buy Order Entry Screen

1. User selects a predefined hourly order contract from the drop down menu.
2. Order price is entered in this field.
  - a. Orders are placed in TL/MWh
  - b. Currency is in Turkish Lira(s) (TL)
  - c. Have a precision of 2 decimal points ("Kuruş" sensitivity)
3. Order quantity is entered in this field. Orders are placed in Lot(s) in whole numbers.
4. This is the area to which to write an hourly buy order description. A saved description can be added or a new description can be added to this field.
  - Adding description is optional and not mandatory.
  - Up to 10 descriptions can be displayed in alphabetical order in the order entry panels.
  - If the number of description exceeds 10, any character contained in the description can be entered and the description can be found.
5. If the user is willing to place a single hourly order and keep it active for a certain amount of time, expiration field should be checked.
  - a. Once this option is activated, user selects the expiration date and time.
6. Participant can place a single hourly order using the IoC (Immediate or Cancel) option by checking this field.
  - a. IoC selection can be used with Passive function.

7. Participant can place a single hourly order using the FoK (Fill or Kill) option by checking this field.
  - a. FoK selection can be used with Passive option.
8. Participant can place a single hourly order for a future use via checking *Passive* field.
  - a. Passive order selection can be used simultaneously with one of Expiration Time, IoC and FoK options. For that case, order will be recorded as passive; once turned into Active, it becomes active based on recorded selection options.
9. Once the contract, quantity and price information are defined and input, order can be placed via clicking *Bid* button.

### 6.6.5 SINGLE HOURLY ORDER DEPTH SCREEN



Figure 32: Single Hourly Order Depth

- Participants' individual orders are shown in customized color under order depth section.
1. This screen shows orders in buy side for the selected contract PH16040521 in detail. Orders are sorted starting from the best buy order.
  2. This screen shows orders in sell side for the selected contract PH16040521 in detail. Orders are sorted starting from the best sell order.
  3. Starting with the best order, preset number of order levels—customized from the settings menu—are displayed. Orders with in the same price level are displayed in aggregated fashion. Detail can be revealed via clicking button on the left hand side.
  4. Orders with in the same price level can be viewed in detail by clicking the button next to that price level. Number of detailed orders cannot exceed the number preset in the settings menu.









### 6.6.6 SINGLE HOURLY ORDER TRADE HISTORY WINDOW



Hour	Contract	Price	Quantity
17:13:59	PB16042700-01	100.00	100
11:53:20	PH16042515	100.00	10
11:51:38	PB16042514-01	100.00	100
16:45:32	PB16042000-05	100.00	100
11:11:59	PH16041417	125.50	200
16:23:45	PH16041222	111.00	32
16:16:04	PH16041221	500.00	1
16:05:25	PB16041308-04	120.00	140
11:19:49	PH16041122	1.00	1
11:18:35	PH16040815	45.00	120
10:10:14	PB16040813-04	120.00	28
09:40:49	PH16040813	120.00	110

Figure 33: Hourly Order Trade History Window

- Latest 100 finalized trades are shown under this section. Contract number, price, quantity and time of matching information are listed on this window.
- User can click "  " button in the right hand corner to expand and view trade history in a pop-up window.
  1. Matched contracts' date and time can be viewed.  buttons sort by date from last matched order to first or from first matched order to last.
  2. Matched contracts' details can be viewed. Click  button filtering on the basis of contracts.  buttons sort contracts by matched time ascending or descending.
  3. Matched contracts' price can be viewed. Matching prices that are entered into price field can be viewed at price display.  buttons sort contracts by matched price in ascending or descending order.
  4. Matched contracts' volume can be viewed. Matching quantities that are entered into quantity field can be viewed at quantity display.  buttons sort contracts by matched volume in ascending or descending order.

### 6.6.7 MY ORDERS AND TRADES WINDOW

Time	Order ID	Contract	A	Type	Price	Quantity	Balance	Status	Icons
10:58:00	4419301	PH16040521	TR	Buy	85.00	28	28	Active	✎ ⚙
10:55:35	4419298	PH16040521	TR	Sell	87.00	12	12	Active	✎ ⚙
10:55:16	4419292	PH16040521	TR	Sell	86.00	13	13	Canceled	✎ ⚙
10:46:05	4419280	PH16040522	TR	Buy	146.00	100	0	Matched	✎ ⚙
10:45:40	4419277	PH16040521	TR	Buy	85.00	19	19	Active	✎ ⚙
10:45:13	4419274	PH16040521	TR	Sell	86.00	19	19	Active	✎ ⚙
10:44:51	4419271	PH16040519	TR	Sell	457.00	124	124	Active	✎ ⚙
10:44:37	4419268	PH16040518	TR	Buy	456.00	123	123	Active	✎ ⚙
10:44:18	4419265	PH16040523	TR	Buy	150.00	50	50	Active	✎ ⚙
10:44:05	4419262	PH16040520	TR	Buy	134.00	60	60	Active	✎ ⚙
10:43:50	4419255	PH16040519	TR	Buy	345.00	234	224	Partially Matched	✎ ⚙
10:43:34	4419252	PH16040518	TR	Buy	333.00	19	19	Active	✎ ⚙
10:43:17	4419249	PH16040517	TR	Buy	234.00	23	23	Active	✎ ⚙
10:43:00	4419246	PH16040514	TR	Buy	241.00	25	25	Active	✎ ⚙
10:42:41	4419239	PH16040513	TR	Buy	123.00	25	2	Partially Matched	✎ ⚙
10:42:19	4419236	PH16040521	TR	Sell	87.00	1	1	Active	✎ ⚙

(1 of 1) 1 13

Figure 34: My Orders and Trades (Hourly)

- Participants' individual orders within the last 4 days are listed in sequence under this section.
- Display the contract ID of Single Hourly Orders.
- Display the contract according to Single Hourly Orders. Click **Kont ▼** button filtering on the basis of contracts.
- Display the region where Single Hourly Orders are applicable. There is one region (TR1) at the present time.
- Display the Single Hourly Order side/type. Click **Heps ▼** button for filtering order side.
- Display the all Single Hourly Orders' prices. buttons sort by single hourly orders' prices in ascending or descending order.
- Display the Single Hourly Orders' volume. buttons sort by single hourly orders' volume in ascending or descending order.
- Display the all Single Hourly Orders' the rest of volume of matched transactions. buttons sort by the rest of volume in ascending or descending order.
- Display the all Single Hourly Orders' last status. Click **Heps ▼** button filtering last status.



10. Order filtering and status changing operations menu can be viewed.

- a. Under filter menu following options can be selected:
  - i. All
  - ii. Updatable
  - iii. Non updatable
- b. Under orders menu following options can be selected:
  - i. Whole Active orders set passive
  - ii. Whole Passive orders set active

11. Values of orders with Active or Passive statuses can be updated, in addition operations such as changing statuses from Active, Passive or Partially Matched can be changed using this button.

12. Trade history for a placed order can be viewed. Data in regard to an order such as order time, quantity, and price, change of status and time of status change can be viewed in detail.

13. In case participants' individual orders within the last 24 hours cannot be displayed on a single page, this bar enables users to navigate between pages to view rest of orders.

#### 6.6.7.1 SINGLE HOURLY ORDER DETAIL SCREEN

**Order Details**

Area : Turkey  
 Contract : PH16040618  
 Type : Buy  
 Order ID : 4420163


Order Option : ☒ IoC ☐ FoK

Expiration Time :

Time	Matches		Updates					
	Matching Quantity	Matching Price	Price	Quantity	Balance	Status	User	Objection
06.04.2016 11:13:12:175			134.00	56	56	Canceled	SYSTEM	
06.04.2016 11:13:12:173			134.00	56	56	Active	USERNAME	

(1 of 1) |< << 1 >> >|

Figure 35: Single Hourly Order Detail

- Order detail screen can be accessed via clicking  icon from My Orders and Trades section.
1. Shows an order's up to date information (zone, contract, order side, price, quantity, status) and time of modifications.

2. Shows whether IoC, FoK and Expiration Time options are selected and if Expiration Time option is selected, shows the time of expiry.
3. If the order is matched, matching quantity and price would be viewed.
4. Logs regarding to updates and user who made the modifications regarding to an order are displayed sorted as latest modified order being at top of list.


#### 6.6.7.2 SINGLE HOURLY ORDER UPDATE WINDOW

The screenshot shows the 'Order Update' window with the following fields and values:

- Offer Area : TR
- Contract : PH19050712
- Type : Buy
- Expiration Time :
- Price (TL/MWh) : 666 (highlighted with red box 1)
- Quantity (Lot) : 78 (highlighted with red box 2)
- Status : Active (highlighted with red box 3), Passive (highlighted with red box 4), Canceled (highlighted with red box 5)
- Description : Sample (highlighted with red box 6)

Buttons at the bottom: Save, Close

Figure 36: Single Hourly Order Update Window

- Order update window can be reached via clicking  icon from My Orders and Trades section.
  - If a partially matched order status is changed to Passive, the status of the original order would be updated as Cancelled and the price of the remaining quantity would be kept original and the status would be presented as Passive. Order status can always be changed to Active and made available for trading.
1. Price of previously placed Active/Passive orders can be changed from this field.
  2. Quantity of previously placed Active/Passive orders can be changed from this field.
  3. Status of a previously placed order can be changed to Active here.
  4. Status of a previously placed Active order can be changed to Passive here.
  5. Previously placed order can be cancelled here.
  6. This is the area to which to write an hourly order description. A saved description can be added or a new description can be added to this field.
    - Adding description is optional and not mandatory.
    - Up to 10 descriptions can be displayed in alphabetical order in the order entry panels.

- If the number of description exceeds 10, any character contained in the description can be entered and the description can be found.

## 6.7 BLOCK ORDER SCREENS

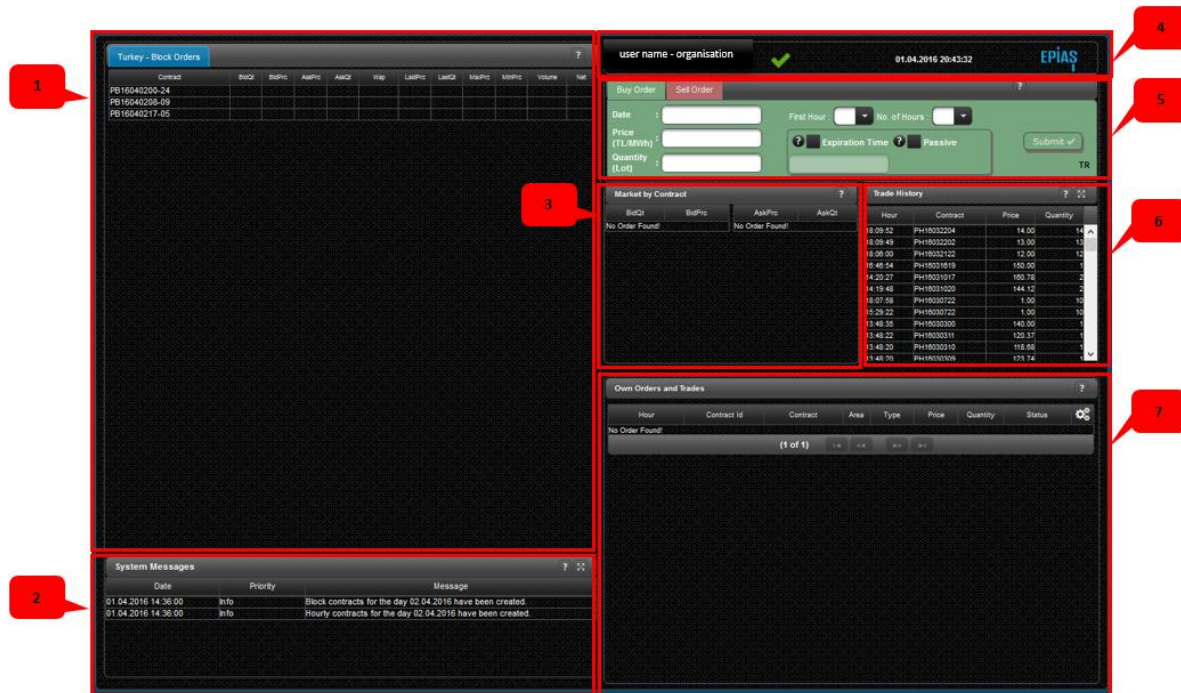


Figure 37: Block Order Homepage

- Block Order Market page can be viewed via selecting Block Order section from the Intraday Market homepage.
- Certain sections of the screen shown above (FIGURE-19) will be explained in detail in the following parts of this manual.


### 6.7.1 BLOCK ORDER SCREEN STATUS BAR



Figure 38: Block Order Screen Status Bar

1. Guarantee adequacy check:

- If the icon is green, guarantee is adequate.
- If the icon is red, guarantee is inadequate and participant cannot trade.

- c. When you click the  symbol, pop-up figure 12 would open.

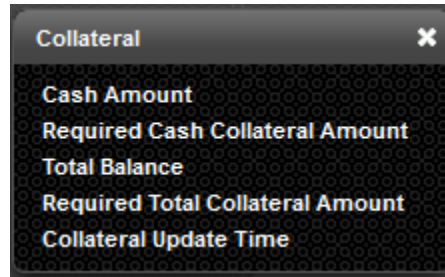


Figure 39: Collateral Standing Pop-up Screen

On the pop-up screen, “Cash Amount”, “Required Cash Guarantee Amount”, “Total Balance”, “Required Total Guarantee Amount” and “Guarantee Update Time” can be displayed related to online user’s organization.

2. Shows the Intraday Market Web Application system date and time information.

3. It indicates that system is enabled or disabled state.

- c. If the color of “EPIAS” logo is blue, system is enabled.  
d. If the color of “EPIAS” logo is red, system is disabled.

## 6.7.2 BLOCK ORDER ENTRY SCREEN

### 6.7.2.1 BLOCK ORDER ASK ENTRY

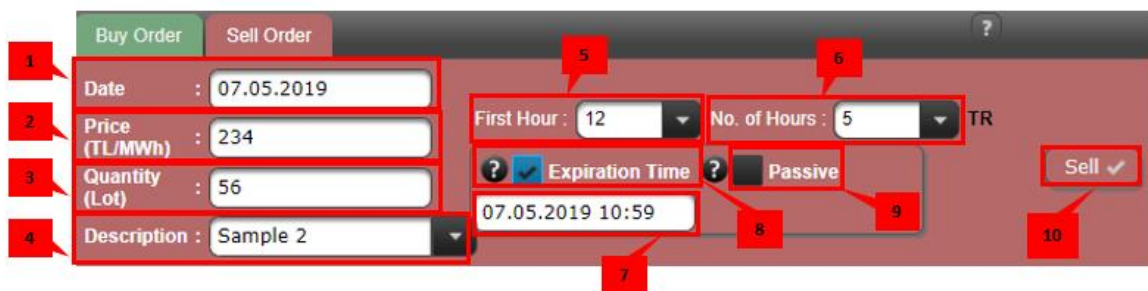


Figure 40: Block Order Sell Order Entry

1. User selects a date (Start-Duration).
2. Order price is entered in this field.
  - a. Orders are placed in TL/MWh
  - b. Currency is in Turkish Lira(s) (TL)
  - c. Have a precision of 2 decimal points (“Kuruş” sensitivity)
3. Order quantity is entered in this field. Orders are placed in Lot(s) in whole numbers.

4. This is the area to which to write an order description. A saved description can be added or a new description can be added to this field.
  - Adding description is optional and not mandatory.
  - Up to 10 descriptions can be displayed in alphabetical order in the order entry panels.
  - If the number of description exceeds 10, any character contained in the description can be entered and the description can be found.
5. Block Order start time is selected in this field.
6. Duration of a block order is defined. (2 hours: from 18 to 20)
7. When the expiration time option is activated, the active section displays the date and time on which the order will remain active. (The order will be active until 05.07.2019 at 10.59 p.m.)
8. If the user is willing to place a block order and keep it active for a certain amount of time, expiration time field should be checked to activate the field where the expiration date and time can be input.
  - a. Once this option is activated, user selects the expiration date and time.
9. Participant can place a block order for a future use via checking *Passive* field. Passive order selection can be used simultaneously with expiration time field. For that case, order is recorded as passive; once turned into Active, it becomes active based on recorded selection options.
10. After the order date, start-expiration time, quantity and price are determined, the order is submitted.

### 6.7.2.2 BLOCK ORDER BID ENTRY

The screenshot shows the 'Block Order Bid Entry' form. It has two tabs: 'Buy Order' (selected) and 'Sell Order'. The form contains several input fields and checkboxes, each with a red numbered callout:

- 1**: Points to the 'Date' field, which contains '07.05.2019'.
- 2**: Points to the 'Price (TL/MWh)' field, which contains '234'.
- 3**: Points to the 'Quantity (Lot)' field, which contains '56'.
- 4**: Points to the 'Description' field, which contains 'Sample 1'.
- 5**: Points to the 'First Hour' dropdown menu, which is set to '12'.
- 6**: Points to the 'No. of Hours' dropdown menu, which is set to '4'.
- 7**: Points to the 'Expiration Time' checkbox, which is checked.
- 8**: Points to the 'Expiration Time' input field, which contains '07.05.2019 10:45'.
- 9**: Points to the 'Passive' checkbox, which is unchecked.
- 10**: Points to the 'Buy' button, which has a checkmark and 'TR' next to it.

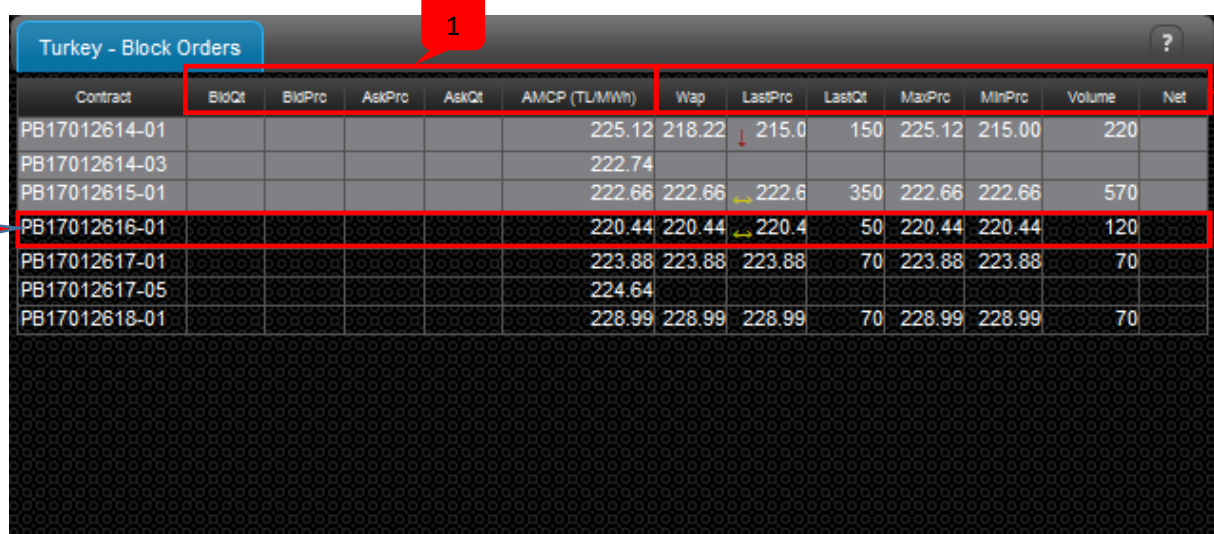
Figure 41: Block Order Buy Order Entry

1. User selects a date (Start-Duration).
2. Order price is entered in this field.
  - a. Orders are placed in TL/MWh
  - b. Currency is in Turkish Lira(s) (TL)
  - c. Have a precision of 2 decimal points ("Kuruş" sensitivity)
3. Order quantity is entered in this field. Orders are placed in Lot(s) in whole numbers.



4. This is the area to which to write an order description. A saved description can be added or a new description can be added to this field.
  - Adding description is optional and not mandatory.
  - Up to 10 descriptions can be displayed in alphabetical order in the order entry panels.
  - If the number of description exceeds 10, any character contained in the description can be entered and the description can be found.
5. Block Order start time is selected in this field.
6. Duration of a block order is defined. (2 hours: from 18 to 20)
7. When the expiration time option is activated, the active section displays the date and time on which the order will remain active. (The order will be active until 05.07.2019 at 10.59 p.m.)
8. If the user is willing to place a block order and keep it active for a certain amount of time, expiration time field should be checked to activate the field where the expiration date and time can be input.
  - a. Once this option is activated, user selects the expiration date and time.
9. Participant can place a block order for a future use via checking *Passive* field. Passive order selection can be used simultaneously with expiration time field. For that case, order is recorded as passive; once turned into Active, it becomes active based on recorded selection options.
10. After the order date, start-expiration time, quantity and price are determined, the order is submitted.

### 6.7.3 BLOCK ORDER BOOK



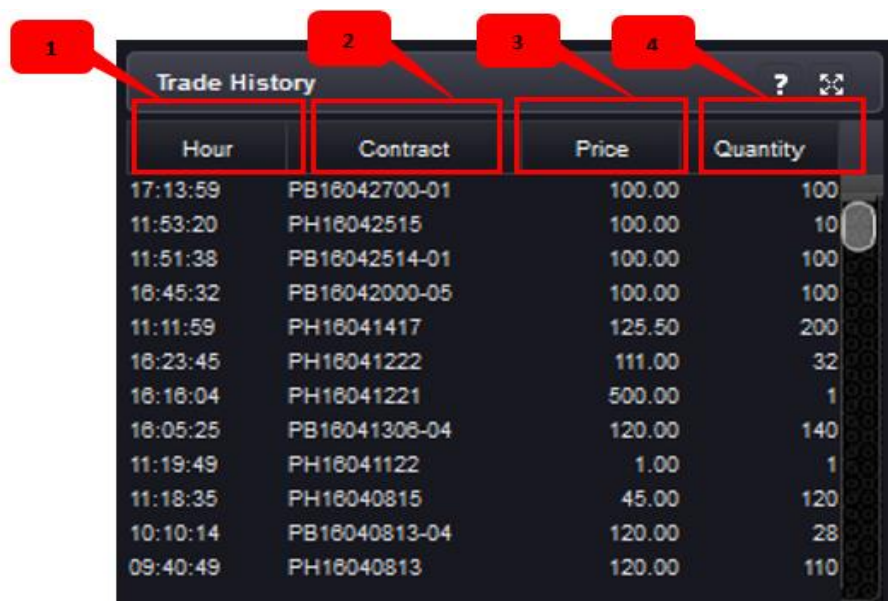
Contract	BidQt	BidPro	AskPro	AskQt	AMCP (TL/MWh)	Wap	LastPro	LastQt	MaxPro	MinPro	Volume	Net
PB17012614-01					225.12	218.22	215.0	150	225.12	215.00	220	
PB17012614-03					222.74							
PB17012615-01					222.66	222.66	222.6	350	222.66	222.66	570	
PB17012616-01					220.44	220.44	220.4	50	220.44	220.44	120	
PB17012617-01					223.88	223.88	223.88	70	223.88	223.88	70	
PB17012617-05					224.64							
PB17012618-01					228.99	228.99	228.99	70	228.99	228.99	70	

Figure 42: Block Order Book

1. Best bid and ask priced offers with quantities are listed under this section.

- a. Quantities of orders with the same price level and side (buy or sell) are aggregated and shown under orders list.
  - b. Detailed information regarding to orders can be viewed under order depth.
2. Trading data regarding contracts can be viewed under this section.
  - a. **Wap** shows the weighted average price of exchanges succeeded under related contract.
  - b. **LastPrc** shows the price of the latest exchange succeeded under related contract.
  - c. **LastQt** shows the quantity of the latest exchange succeeded under related contract.
  - d. **MaxPrc** shows the value of the maximum priced exchange-among multiple- succeeded under related contract.
  - e. **MinPrc** shows the value of the minimum priced exchange-among multiple- succeeded under related contract.
  - f. **Volume** shows the sum of ask and bid quantities under related contract.
  - g. **Net** shows the difference of ask and bid quantities of participant's own orders that already matched.
3. As for the **PB15061220-04** contract following information can be viewed: Best buy and sell orders, price and quantity information of the latest trade, minimum and maximum price information of the previously executed exchanges and trade volume of the related contract.







#### 6.7.4 BLOCK ORDER TRADE HISTORY WINDOW



Hour	Contract	Price	Quantity
17:13:59	PB16042700-01	100.00	100
11:53:20	PH16042515	100.00	10
11:51:38	PB16042514-01	100.00	100
16:45:32	PB16042000-05	100.00	100
11:11:59	PH16041417	125.50	200
16:23:45	PH16041222	111.00	32
16:16:04	PH16041221	500.00	1
16:05:25	PB16041306-04	120.00	140
11:19:49	PH16041122	1.00	1
11:18:35	PH16040815	45.00	120
10:10:14	PB16040813-04	120.00	28
09:40:49	PH16040813	120.00	110

Figure 43: Block Order Trade History Window



- Latest 100 finalized trades are shown under this section. Contract number, price, quantity and time of matching information are listed on this window.
- User can click "  " button in the right hand corner to expand and view trade history in a pop-up window.
  1. Matched contracts' date and time can be viewed.  buttons sort by date from last matched order to first or vice-versa
  2. Matched contracts' details can be viewed. **Kont**  button can be used to view contracts in which trading has occurred.  buttons sort contracts by matched time in ascending or descending order.
  3. Matched contracts' price and filter entering needed matched price.  buttons sort contracts by matched price ascending or descending.
  4. Matched contracts' volume can be viewed. Matching quantities that are entered into quantity field can be viewed at quantity display .  buttons sort contracts by matched volume ascending or descending.

### 6.7.5 BLOCK ORDER DEPTH SCREEN



BidQt	BidPre	AskPre	AskQt
25	145.00	123.00	23
25	145.00	145.00	45
34	136.00	156.00	65
34	124.00		

Figure 44: Block Order Depth Screen

1. Orders in buy side for the selected contract PB16040607-01 are shown in detail. Orders are sorted starting from the best buy order.

- Orders in sell side for the selected contract PB16040607-01 are shown in detail. Orders are sorted starting from the best sell order.

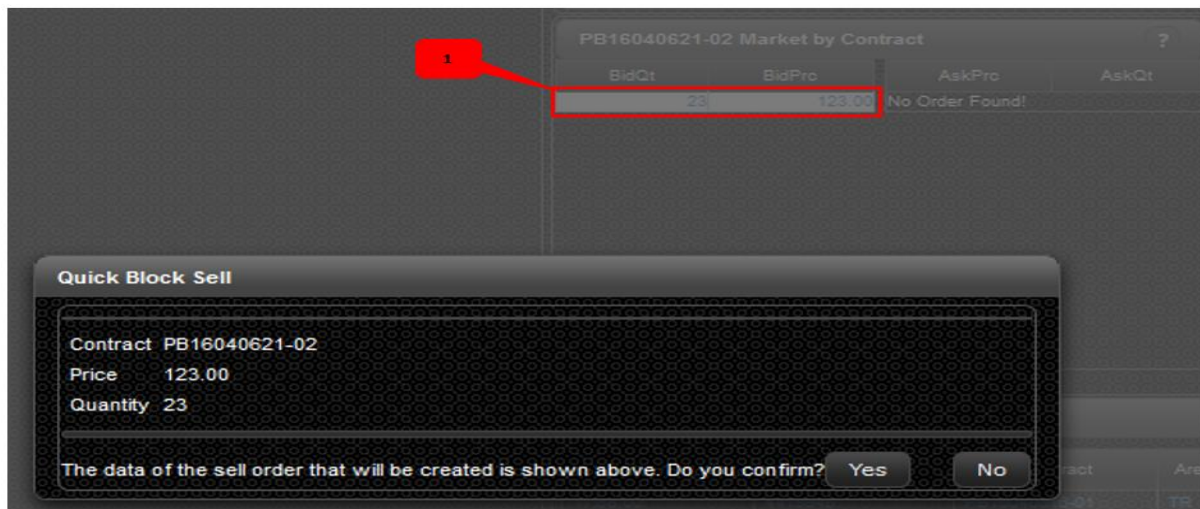







Figure 45: Block Order Screen-Fast Block Order (Sell) Entry

- At block order depth screen, quick block sell can be performed via double clicking on the order having desired terms of trading. Quick Block Sell screen allows participants to form a counter offer in the opposite side immediately.

## 6.7.6 MY ORDERS AND TRADES WINDOW



Figure 46: My Orders and Trades (Block)

1. Participants' individual orders within the last 4 days are listed in sequence under this section.
2. Display the contract ID of Block Orders.
3. Display contracts according to Block Order. Click  button for filtering on the basis of contracts.
4. Display region according to Block Order. There is one region (TR1) at the present time.
5. Display the Block Order side/type. Click  button for filtering order side.
6. Display all Block Orders' prices.  buttons sort by block orders' prices in ascending or descending order.
7. Display Block Orders' volume.  buttons sort by block orders' volume in ascending or descending order.
8. Display all Block Orders last status. Click  button for filtering last status.
9. Order filtering and status changing operations menu
  - c. Under filter menu following options can be selected:
    - i. All
    - ii. Updatable
    - iii. Non updatable
  - d. Under orders menu following options can be selected:
    - i. Whole Active orders set passive
    - ii. Whole Passive orders set active
10. Values of orders with Active or Passive status can be updated, in addition operations such as modifying of Active, Passive or Partially Matched orders can be performed.
11. Trade history for a placed order can be viewed. Information regarding to an order such as order time, quantity, and price, change of status and time of status change can be viewed in detail.
12. In case participants' individual orders within the last 4 days cannot be displayed on one page, this bar allow users to navigate between pages to view the rest of offers.

## 6.7.6.1 BLOCK ORDER DETAIL SCREEN

Order Details

Area : Turkey

Contract : PB19050716-01

Type : Buy

Contract Id : 65099765

Expiration Time :

Description : Sample

Time	Matches		Updates					
	Matching Quantity	Matching Price	Price	Quantity	Balance	Status	User	Objection
07.05.2019 14:07:14.377			123.00	57	57	Active	PK	

(1 of 1)

Figure 47: Block Order Detail

1. Display the block order last status (zone, contract, order side, contract id).
  2. Display the time of the “expiration time” option selected order. Description of the order is included.
  3. If the block order is matched, the matching quantity, the match price, and the time the order was given and the order matched.
  4. Display the all changes in the case of the order are listed and seen by which user the change was made, the order price, the order quantity, the column of objection and the time of the most recent change will be at the top.
- Intraday Market participants have a right to object in 15 minutes via clicking *Objections* button in case there is an error regarding to information at their transaction confirmation notifications. Objections would only be accepted if EPIAS is responsible for the mistake.

### 6.7.6.2 BLOCK ORDER UPDATE WINDOW

Figure 48: Block Order Update Window

Price, quantity and status modifications of a block order, placed previously, can be performed using this section.

As for the block order mentioned under this contract:


1. Price can be changed from this field.
  2. Quantity can be changed from this field.
  3. Status of a previously placed order can be changed to Active.
  4. Status of a previously placed Active order can be changed to Passive.
  5. Previously placed order can be cancelled.
  6. This is the area to which to write an order description. A saved description can be added or a new description can be added to this field.
    - Adding description is optional and not mandatory.
    - Up to 10 descriptions can be displayed in alphabetical order in the order entry panels.
    - If the number of description exceeds 10, any character contained in the description can be entered and the description can be found.
- Each update performed on an order would decrease priority of order.
  - For modifications on a block order to remain valid, users should click the save button after each modification.



### 6.7.7 BLOCK ORDER SCREEN MESSAGES

System Messages		
Date	Priority	Message
05.04.2016 14:36:00	Info	Block contracts for the day 06.04.2016 have been created.
05.04.2016 14:36:00	Info	Hourly contracts for the day 06.04.2016 have been created.

Figure 49: Block Order Screen Messages

1. System messages that are published by EPIAS can be viewed
2. User can click "  " button in the right hand corner to expand and view messages in a pop-up window

### 6.8 OBJECTIONS SCREEN

Order Details								
Area : Turkey Contract : PH16040620 Type : Buy Order ID : 4420266 Order Option : <input type="radio"/> loC <input type="radio"/> FoK Expiration Time :								
Time	Matches		Updates					
	Matching Quantity	Matching Price	Price	Quantity	Balance	Status	User	Objection
06.04.2016 12:11:13:04327		177.00	178.0054	0		Matched	SYSTEM	X
06.04.2016 12:11:13:03327		177.00	178.0054	27		Partially Matched	SYSTEM	X
06.04.2016 12:11:13:029			178.0054	54		Active	USERNAME	X

Figure 50: Order Detail Screen Objections Section

1. Objections button can be used on the order detail screen to initiate an objection.
  - Intraday Market participants have a right to object in 15 minutes via clicking *Objections* button in case there is an error regarding to information at their transaction confirmation notifications. After 15 minutes, button will be de-active and the right of objection will be end for this contract.

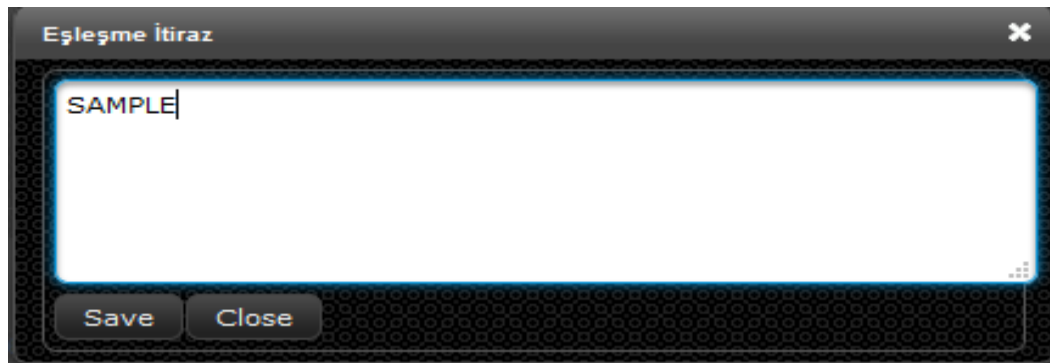


Figure 51: Matching Objections Screen



- When the participant clicks “X” under objections section, the participant would be directed to screen shown above on (FIGURE 37). User can enter the text regarding the objection of the corresponding contract on this screen. Once Save button clicked, objection would be send to EPIAŞ.

### 6.8.1 OBJECTION MONITORING SCREEN

1. Status of the objections can be tracked via clicking the objections button on the participant screen.



Figure 52: Objection Operations Screen

1. **Current Objections:** If EPIAŞ has not taken any action yet, it can be viewed under here. Click the  button under the “Current Objections” tab and then click the “Objection List” button displaying this field.
2. **Expired Objections:** If EPIAŞ has taken an action, it can be viewed under here. Click the  button under the “Expired Objections” tab and then click the “Objection List” button displaying this field.
3. **Objection List:** Display “Current Objections” and “Expired Objections” fields via clicking Objection List button.
4. **All:** Display last status (Active, Accepted, Rejected) of objection
5. **Active:** Objection is active status, if EPIAŞ has not taken any action yet
6. **Accepted:** If objection considered as valid, results would be displayed along with the justification at this field



7. **Rejection:** If objection considered as non-valid, results would be displayed along with the justification at this field
8. Objection evaluations by EPIAŞ as well as results would be viewed here.

## 6.9 REPORTS SCREEN

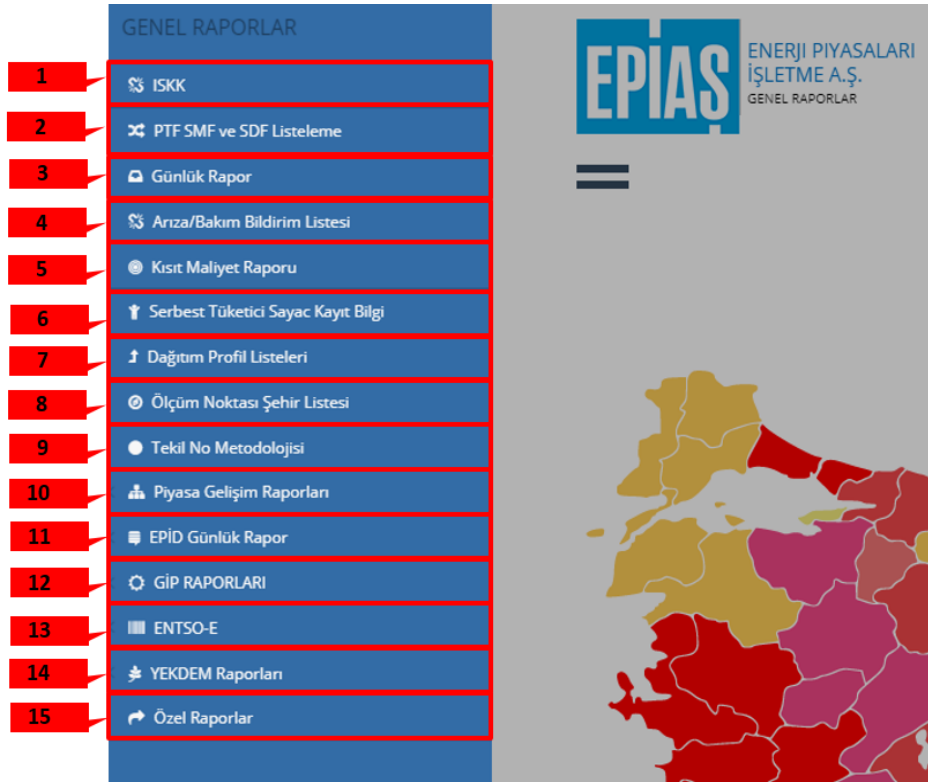


Figure 53: Reports Screen Homepage

1. First and latest versions Transmission System Loss Factor information can be accessed via clicking the “ISKK” (Transmission System Loss Factor) section on the general reports screen.
2. On a daily basis for each hour, Market Clearing Price and System Marginal Price can be tracked via clicking the “MCP and SMP Listing” section.
3. For every hour; load forecasting plan, bilateral contracts volume, system purchase volume (SAM), system sales volume (SSM), order volume of balancing entity-up regulation volume (YALM) and bid volume of balancing entity-down regulation volume (YATM) can be accessed via clicking the section of “Daily Report”.
4. The outage and maintenance information and justification presented by respective generators can be tracked via clicking the section of the “Outage/Maintenance Notification Report”.
5. Number of instruction given due to congestion and related congestion cost on provincial basis can be accessed via clicking the section of “Congestion Cost Report”.
6. Information regarding to meters of eligible consumers and number of eligible consumers can be accessed on provincial basis via clicking the “Eligible Consumer Meter Record Information” (Serbest Tüketici Sayaç Kayıt Bilgi) section.
7. Profile coefficients can be accessed on distribution region and profile consumption group basis via clicking the “Distribution Profile List” (Dağıtım Profil Listeleme) section.

8. Institution responsible for meter reading and subscriber number, and consumption type information can be viewed.
9. Measurement points on province and town basis can be accessed via “Provincial Measurement Point Listing” section.
10. Number of participants classified in type of licenses, periodic market volumes and arithmetic prices, increase in number of eligible customers and associated meters, SMP and MCP averages and 3-period average prices can be accessed via “Market Development Reports” section.
11. Daily prices, amount of market clearing volume, financial and physical volumes of electricity market, balancing power market instructions, YEKDEM (Renewable Energy Support Mechanism) generation forecast data can be accessed via “EPID Daily Report” section.
12. Intraday Market contracts summary, Intraday Market order list, Intraday Market transaction history can be accessed via “Intraday Market Report” section.
13. The ENTSO-E (X, W, and Z) codes can be accessed via “ENTSO-E” section.
14. YEKDEM generation forecasts, Spot Market orders, YEKDEM Portfolio Income (YPG), YEDKEM realized generation, total gross cost of YEKDEM support mechanism (YEKBED), total net cost of YEKDEM support mechanism (YEKTOB), total gross cost of unlicensed generation (LÜYTOB), imbalance volume, imbalance cost, YEKDEM unit cost and system withdrawal basis to settlement under the procurement liability can be accessed via “YEKDEM Reports” section.
15. Market participants can access their own data and information at Day-Ahead Market, Intraday Market and Settlement sections via “Private Reports” section and using their your username and password.

## 6.10 VERSION HISTORY

Version	Version Interchange	Prepared By	Date
1.0	Intraday Market User Manual v.1.0 is prepared.	Spot Electricity Market Department	01.07.2015
1.1	Reformed pages and Settings are inserted.	Spot Electricity Market Department	28.07.2016
1.2	IDM FDGS updating and IDM justified price bid updating pages are inserted.	Spot Electricity Market Department	12.10.2016
1.3	Changes are made according to new rules and legislation.  Grammar mistakes and typos are corrected.	Spot Electricity Market Department	05.06.2016

1.4	New sections are inserted for entitlement and limit definition which is operated from EKYS.	Spot Electricity Market Department	09.08.2017
1.5	Order control according to MCP and updating limits are added.	Spot Electricity Market Department	24.12.2017
1.6	Title of IDM-FDGS Balancing and IDM Justified Price Order Updating is changed.	Spot Electricity Market Department	22.02.2018
1.7	Contract delivery time is updated to 60 minutes (1 hour).	Spot Electricity Market Department	05.10.2018
1.8	Description fields have been added.  Organization Limits and User Upper Limit Operations have been updated.	Spot Electricity Market Department	07.05.2019