LTS_NS PLATFORM PARTICIPANT MANUAL

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INTRODUCTION

This manual describes the functions of the **Local Trading and Nomination System (LTS_NS) portal**, through which the trading and physical scheduling activities connected with the continuous trading sessions of the intraday market performed as part of the Cross Border Intraday (XBID) and the related nominations can be carried out.

In particular, it should be noted that in the context of this document, the term "trading" means the set of the following actions:

- the collection of orders from GME participants for the XBID continuous trading market;
- sending of the orders of GME participants to the Shared Order Book (SOB) platform;
- receiving from the SOB the results related to the orders of GME Participants and to any other event relevant to them;
- producing of the relevant data for the invoicing of GME participants that have acted in the XBID continuous trading market.

The term physical scheduling (or nomination) means the set of the following activities, which allow participants to indicate:

- how much energy they intend to inject into the electricity grid through the generating or pumping units that they have available for a specific imbalance settlement period (ISP), as a result of the trading activity carried out within the intraday market in continuous trading (MI-XBID);
- how much energy they intend to withdraw from the electricity grid through the consuming or pumping units that they have available for a specific ISP, as a result of the trading activity carried out in the MI-XBID.

The nomination is strictly related to the residual capacity of each unit as resulting from the energy markets already carried out, possibly modified by the results of the different phases of the MSD and from the net position accrued by participants on the MI-XBID.

This manual provides participants with the descriptions of the pages of the LTS_NS platform accessible to them and the functions they are responsible for.

TYPES OF USERS

As part of the LTS_NS platform, the users indicated by the participant in the admission phase or in subsequent modification and integration requests, access the platform if they are in possession of valid credentials (digital certificates valid for authentication) registered on the systems of GME (in particular on the IPEX platform). As is known, each user authorised to operate on spot energy markets can be associated with one or more participants of the Electricity Market. Each transaction on the system is therefore carried out by the user on behalf of a participant.

The portal manages **two types of users**:

- **User,** which has access to all the functions of the IT platform; the same may in fact, by way of example, submit orders on the MI-XBID order book or physical nominations on the units assigned to the participants on behalf of which the user operates;
- **Viewer,** which has the sole possibility of viewing information relating to orders, physical scheduling and financial guarantees of one or more participants for which they are entitled to operate. A viewer cannot modify schedules and/or financial guarantees. They cannot therefore submit any transaction to the system.

In this manual, unless otherwise specified, reference is made to users.

Taking into account that the LTS_NS portal is integrated with the IPEX platform, the user, enabled to operate on IPEX, is also enabled for the LTS_NS platform. In this regard, it should be noted that this user shares access and signature credentials and user rights between the two platforms, as shown below.

Similarly, an LTS_NS participant is always enabled on the IPEX platform. The user that accesses the LTS_NS will have all the participants assigned to them enabled for that platform.

THE FUNCTIONS OFFERED BY THE LTS_NS PORTAL

This section illustrates, in detail, the functions offered by the portal.

It should be noted that to access the LTS_NS portal, the user must have previously registered with and enabled on the IPEX platform.

AUTHENTICATION

Authentication on the LTS_NS portal takes place using the same certificate registered on the IPEX portal.

Once authenticated, the user must keep their credentials in order to operate on the portal until the session expires or until the user explicitly closes the session.

MANAGEMENT OF THE SIGNATURE CERTIFICATE

In order to use a signature certificate, it is necessary to have a signature certificate registered on the IPEX portal.

DEPOSITING THE DIGITAL SIGNATURE

A user can deposit their digital signature after connecting to the LTS_NS.

This operation is necessary to:

- Reserve/Change the financial guarantee available for operations on the LTS_NS;
- Insert/modify/withdraw/hide orders;
- Insert/modify/revoke a schedule.

This functionality is not available for the viewer role.

The deposited digital signature ceases its validity 24 hours after its registration.

USER DETAILS AND LOGOUT

The section highlighted in Figure 1 with no. 1 shows the name of the authenticated user and their role (user, viewer). Immediately beside it there is a drop-down menu that allows the user to choose the language, Italian or English, with which to view the contents of the portal and to change the password. The content of the pages is translated based on the selected language. In addition to the translation of the textual parts, the change of language also involves the display of the date in Italian or English format, and the application, in view-only mode, of the decimal separator for the digits: the comma (",") for the Italian version and a full stop (“.”) for the English version. By clicking on the icon on the right it is possible to leave the portal, thus closing the session. If the user wishes to access the portal again, they will have to authenticate again.

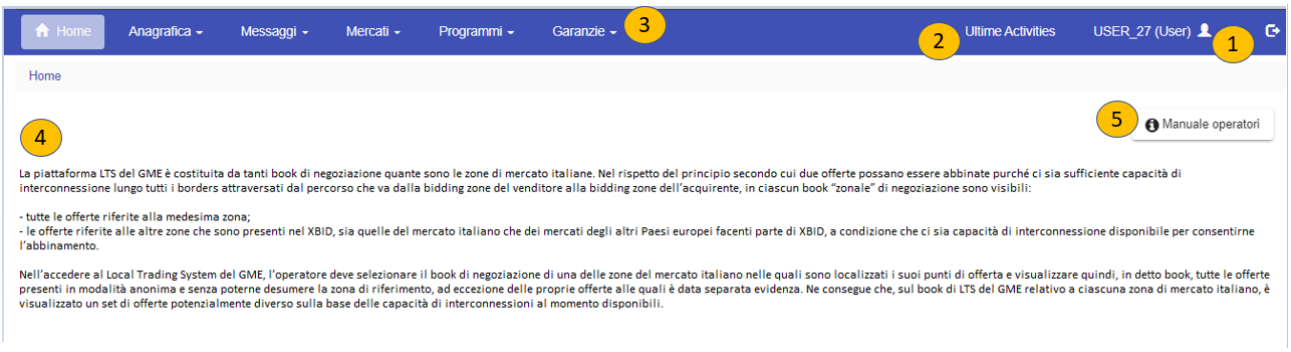


Figure 1: The main page of the LTS_NS portal.

ENABLED PARTICIPANTS

By selecting the 'Ultime Activities' menu (section highlighted in Figure 1 with no. 2), the user can obtain direct feedback on the last five operations carried out, such as the submission of orders.

THE MENU

In the area highlighted in Figure 1 with no. 3 the links to all pages to which the user can have access are shown.

Identification data: a section in which all the pages containing useful information for users, participants and units are grouped.

Messages: a section containing the pages for uploading xml files and the list of input and output messages relating to the participants associated with the user.

Markets: a section containing the pages for managing the signature, for submitting and monitoring orders, information on the financial guarantee reserved daily for the MI-XBID and for the submission of complaints.

Schedules: a section from which it is possible to access the section relating to nominations (physical scheduling on the units).

Guarantees: a section in which it is possible to view the complete details of the situation of guarantees in general and, in particular, relating to the MI-XBID for each participant under the user's responsibility.

THE MAIN CONTENT

The section highlighted in Figure 1 with no. 4 shows the content of the individual pages.

The home page, i.e. the one shown in Figure 1, is the page that contains communications to participants. From this page it is also possible to download a pdf version of the user manual (key highlighted in Figure 1 with no. 5).

FILTERS AND REPORTS

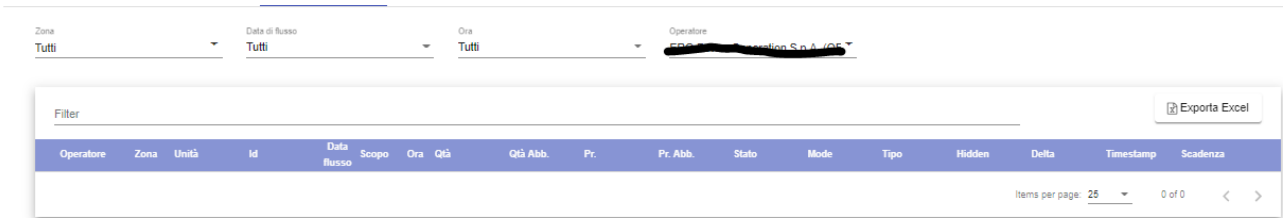


Figure 2: Filters and reports in Excel.

Each report page has a filter section shown at the top of the page (Figure 2).

In general, it is possible to apply filters to restrict the number of results provided by the underlying report. To reload the report taking into account the appropriate filters, click on the button Cerca . Finally, it is possible to export the report in Excel format by clicking on Exporta Excel . After clicking, the page opens the report in Excel format, showing only the filtered results on the web page.

On the columns of the report displayed on the web page there are arrows to sort the records shown in ascending or descending order (alphabetical or numerical).

The features described here are common to all the pages that show a report.

IDENTIFICATION DATA

On LTS_NS the following data is reported:

- identification data of active participants (not suspended or excluded from IPEX), which, by right, can participate in the XBID;

- identification data of authorised users for the participants referred to in the previous point;

- the list of all active units on IPEX.

In addition, on a regular basis, the margins of the units are also updated on the basis of the results of the various markets performed on IPEX and the information sent by the TSO. The availability of physical margins is a necessary condition to place orders on the MI-XBID.

As soon as an implicit intraday auction (IDA) is carried out, or an update of the feasibility intervals of the units enabled for the MSD has been received from Terna, IPEX sends the updated margins for the various units involved to the LTS_NS portal.

THE PARTICIPANTS PAGE

The 'Participants' page shows the list of participants authorised to operate on the LTS_NS. The page is read-only and contains only the information regarding the company name, the participant code and the VAT number of each participant.

Only the free filter (Filter) is present on the page.

It is possible to export the report in Excel format by clicking on the ‘Esporta Excel' key.

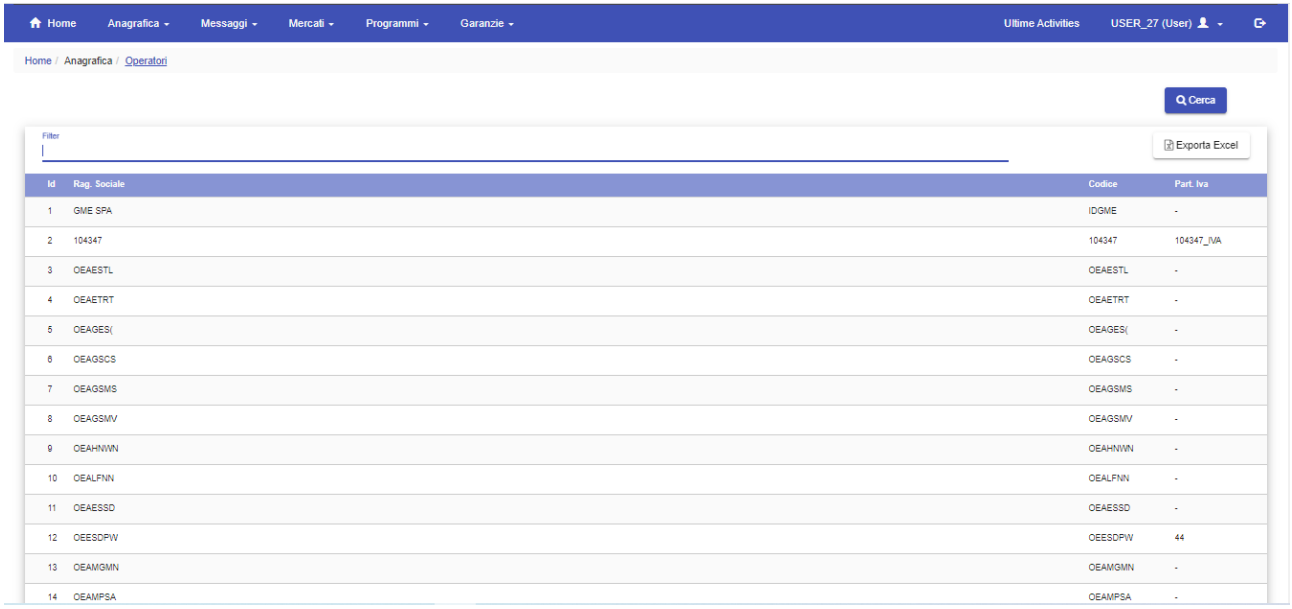


Figure 3: The list of participants authorised to use the platform.

UNITS PAGE

The 'Units' page is a report showing the units assigned to the participants under the user's responsibility. By default, only the reference participant's units are shown. However, using a radio button, it is also possible to view the units under delegation in the period included in the flow date set in the filter.

At the top, the flow date, unit, type, zone, Pdsr (Relevant Trading Point) and participant filters are used to limit the display of records based on the preferences set.

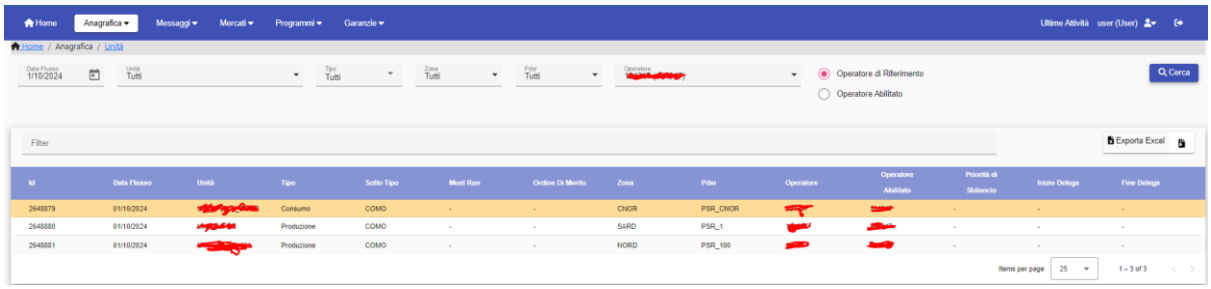
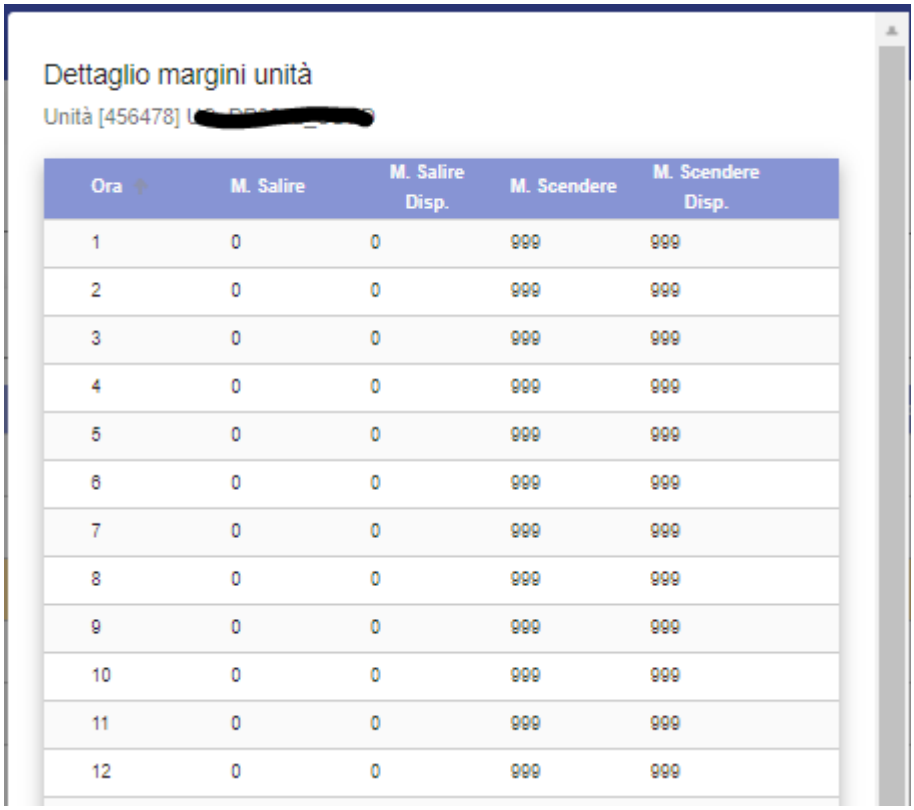


Figure 4: The units list.

The columns displayed are: Id, flow date, name of the unit, type, subtype, Must Run, merit order, zone, Pdsr (Relevant Trading Point), reference participant, authorised participant, priority of imbalance and start and end dates of the delegation, respectively.



Dettaglio margini unità

Unità [456478] [redacted]

Ora	M. Salire	M. Salire Disp.	M. Scendere	M. Scendere Disp.
1	0	0	999	999
2	0	0	999	999
3	0	0	999	999
4	0	0	999	999
5	0	0	999	999
6	0	0	999	999
7	0	0	999	999
8	0	0	999	999
9	0	0	999	999
10	0	0	999	999
11	0	0	999	999
12	0	0	999	999

Figure 5: Details of unit margins.

The free filter (Filter) is present on the page

It is possible to export the report in Excel format by clicking on the ‘Esporta Excel' key.

MESSAGES

For each action performed by the user on the LTS_NS platform, an xml input transaction is generated, which always corresponds to an xml result file (called Functional Acknowledgment, FA), also in the form of an xml file. It is always possible for the user to view the generated xml file and its FA.

UPLOAD DOWNLOAD

Through the 'Upload Download' page, the user can directly upload xml files to submit/edit orders and schedules or to change the status of orders and schedules (Figure 6).

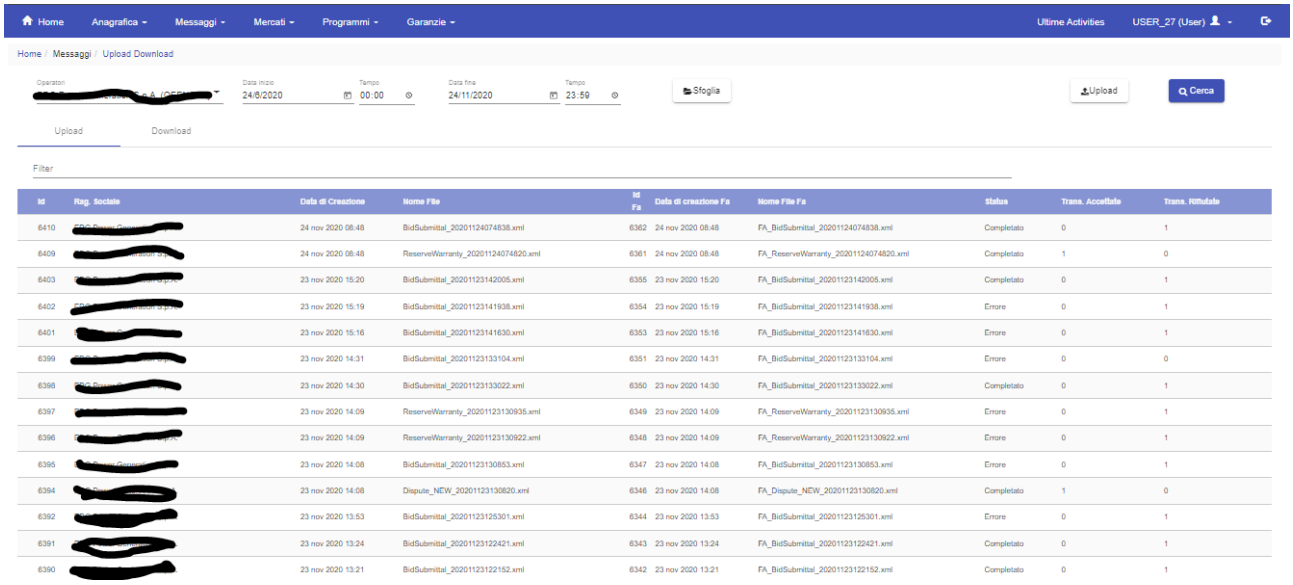


Figure 7: Upload of xml files.

The user must write the xml file with a dedicated editor, according to the formats described in the Implementation Guide, and then proceed with the upload, first selecting the file using the 'Sfoglia' button and then submitting the same using the Upload button.

Each action submitted by the user to the LTS_NS system through the web pages described above takes the form of an xml file, stored in the database and subsequently processed by the platform. Each action deposited on the system generates a result (FA), irrespective of the outcome of the action performed.

The list of submitted xml transactions and their outcome are displayed on this page (Figure 9).

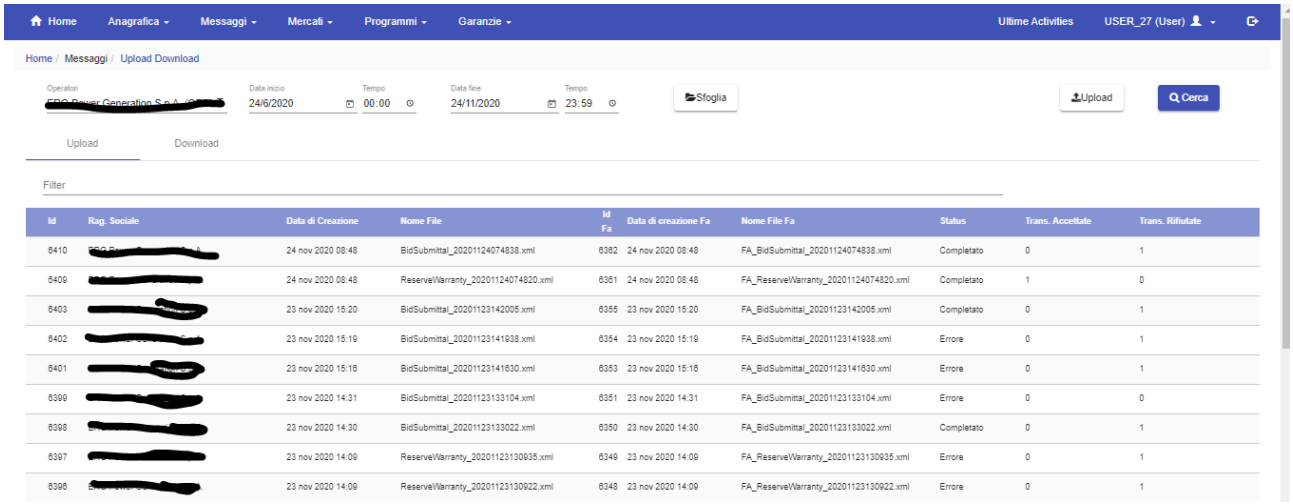


Figure 8: Upload Download

The page is organised as follows: in the Upload tab the unique id attributed to the xml input message is displayed, produced through user interaction with the portal pages, as well as the company name of the participant, the date of creation of the file, the name of the file, the ID of its FA, the creation date and name of the FA file, the outcome of the transaction and its relative status (Accepted or

Rejected). By clicking on each row it is possible to choose whether to download the input xml file that originated the transaction, to download its FA or to open the details where both are shown.

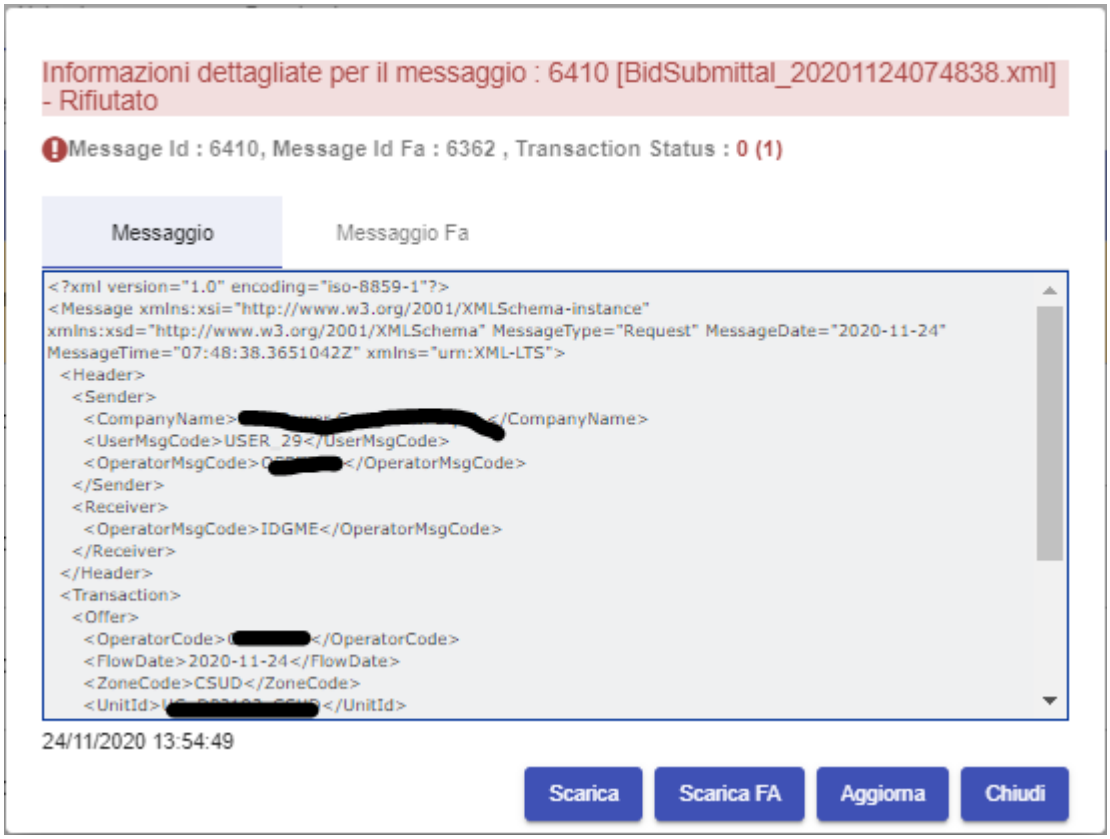


Figure 9: Detailed message information.

On the 'Upload Download' page, it is also possible to view any files sent by the system other than FAs, which do not correspond to any input file sent by the participant. Figure 11 shows the use of the Download tab.

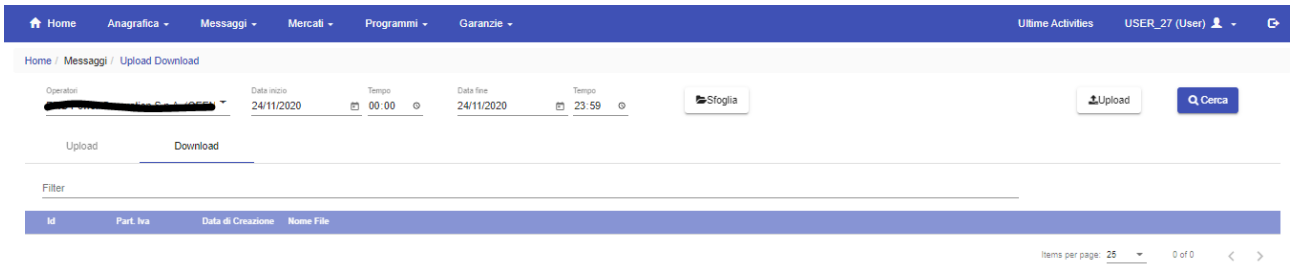


Figure 10: Download.

MARKETS

GME's LTS_NS portal allows access to continuous trading of the MI-XBID market. Orders can be submitted on as many order books as there are Italian market zones. Furthermore, in compliance with the principle according to which two orders can be matched, provided that there is sufficient interconnection capacity along all borders crossed by the path that goes from the seller's bidding zone to the buyer's bidding zone, in each "zonal" order book, the following are visible:

- all orders referring to the same zone;
- orders referring to the other zones that are present in the XBID (both those of the Italian market and those of the markets of the other European countries that are part of the XBID, provided that there is interconnection capacity available to allow matching).

When accessing GME's LTS_NS portal, the Market Participant must select the order book of one of the zones of the Italian market in which the offer points that it has available are located and then view, in this book, all the orders available anonymously, without being able to identify the reference zone, with the exception of its own orders, which are shown separately. It follows that, on GME's LTS book relating to each Italian market zone, a potentially different set of orders is displayed based on the interconnection capacities that are currently available.

SIGNATURE MANAGEMENT

Through the 'Signature Management' page, access is provided to the page that offers the user the possibility of managing their own signature certificate on a daily basis. If the user has no signature certificate registered for the current day, the page appears as in Figure 12.

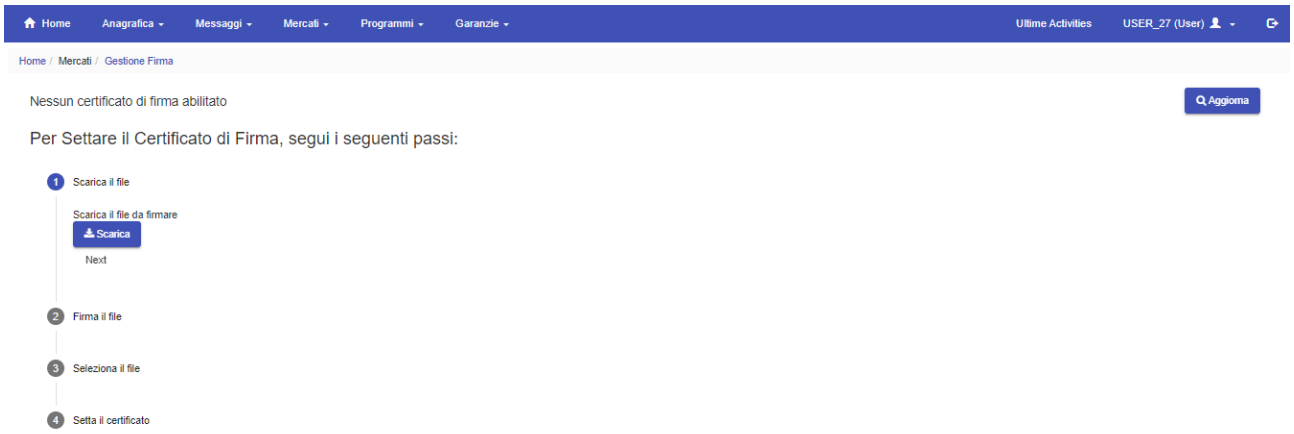


Figure 11: Signature Management.

For the user to be able to add a certificate, they must proceed through the 4 steps indicated on the page, namely:

1) download the xml file generated with the current date;
2) sign the file just downloaded with an external tool, using the signature certificate that the user has registered on IPEX;
3) select the file just signed;
4) check the setting of the daily signature certificate.

Once the certificate has been set, it will be displayed at the top of the page, indicating the expiry date and it will then be possible to revoke it using the 'Revoca il certificato' button.

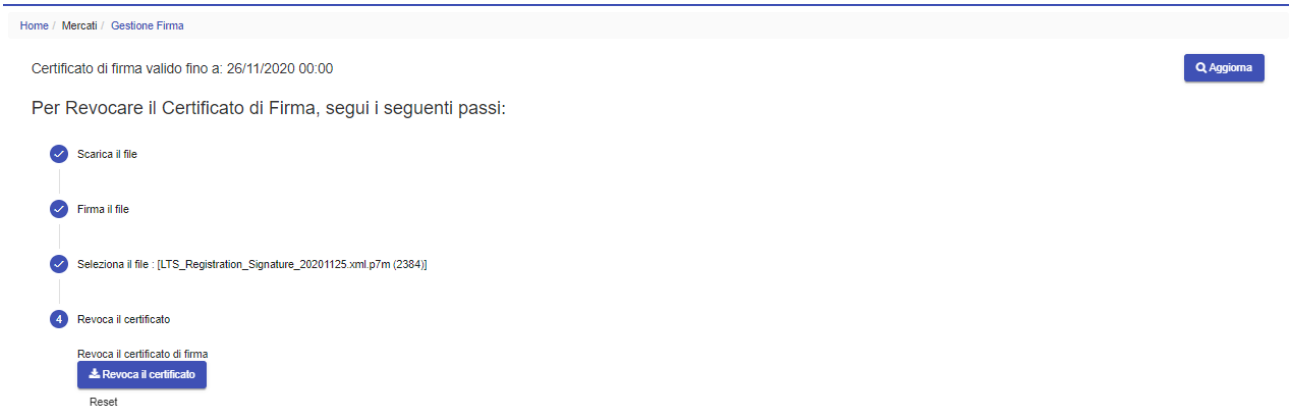


Figure 12: Registered signature certificate.

TRADING

Figure 13 shows the order book of the products that can be traded at a given time (trading interval) on the MI-XBID. One or more boxes corresponding to the product trading zones are displayed. For each zone, the currently tradable contracts (FH for hourly products, QH for quarter-hourly products) are available.

As soon as one or more contracts become tradable or exit the trading, an alert, lasting a few seconds, is displayed in the lower right part of the page.

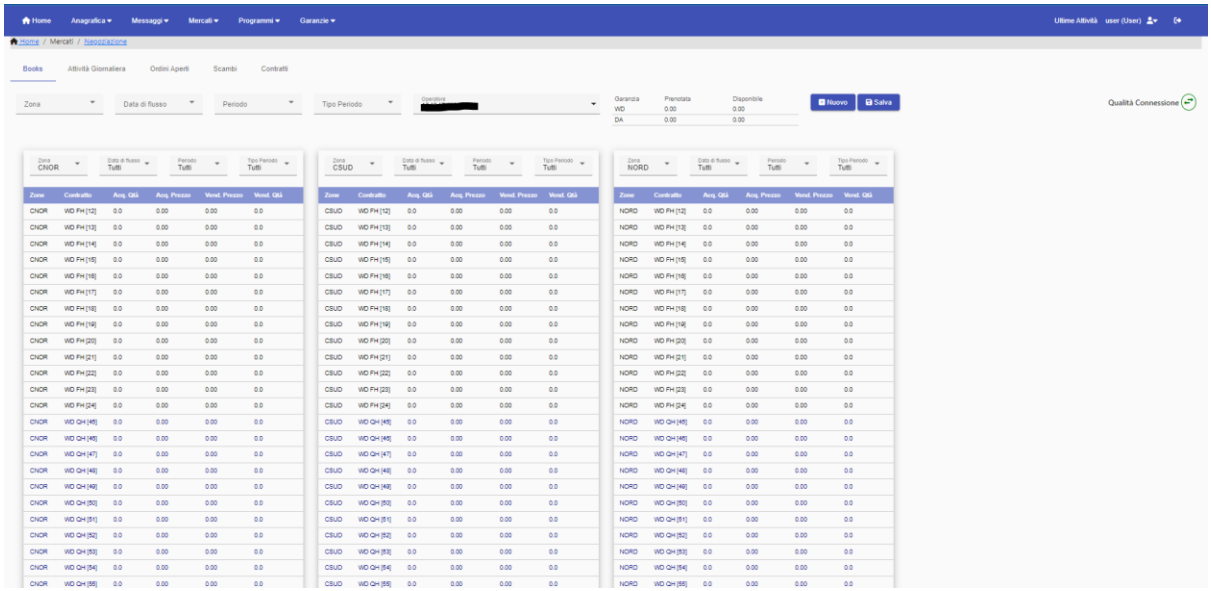


Figure 13: The order book.

The user can configure the trading page by modifying the order or number of zones displayed and can also add new customised boxes using the button

. Furthermore, for each box it is possible to set the flow date (WD, Within-Day, i.e. products referring to the current day, or DA Day-Ahead i.e. products referring to the next day), the period relating to a tradable product and the zones to be viewed.

The filter at the top of the page instead acts globally on all the boxes present and has priority over the filters set in the individual boxes.

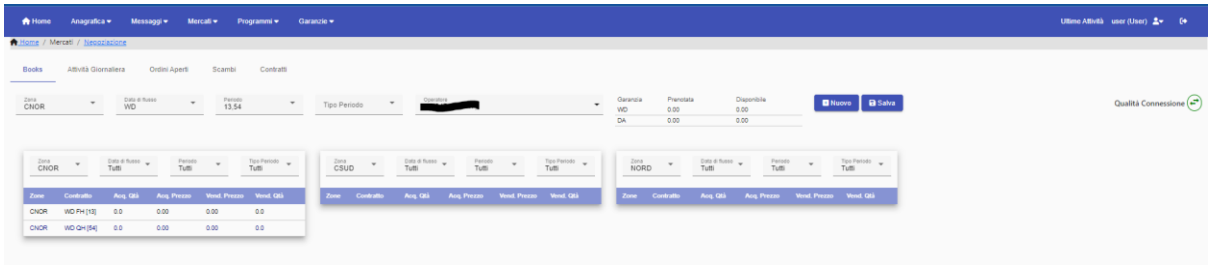


Figure 14: The order book.

The configuration can be saved for each user via the button

and is also maintained in subsequent logins.

The indicator

instead indicates the correct communication between the user's browser and the LTS/XBid system.

RESERVATION OF THE DAILY GUARANTEE

Before being able to operate on the book, each participant must book from the Netting system (integrated system for the management of financial guarantees of the spot electricity and gas markets) the guarantees necessary to ensure adequate financial coverage for the trading operations carried out on the LTS_NS (continuous trading XBID market), relative to the WD and DA flow date. A participant chooses an amount of financial guarantees to be booked on the Netting system for a specific flow date by selecting the 'Garanzia' section displayed to the right of the participant filter, choosing the WD or DA flow date. It is of course possible to book financial guarantees for both flow dates

Garanzia	Prenotata	Disponibile
WD	0.00	0.00
DA	0.00	0.00

Figure 15: Financial guarantee booking summary.

The amount of the reserved guarantee can be changed at any time. Once the reservation has been made, the amount available for each of the two flow dates will always be displayed following the trading activity carried out on the LTS_NS.

The reservation of a financial guarantee is only possible for the user that has deposited their digital signature.

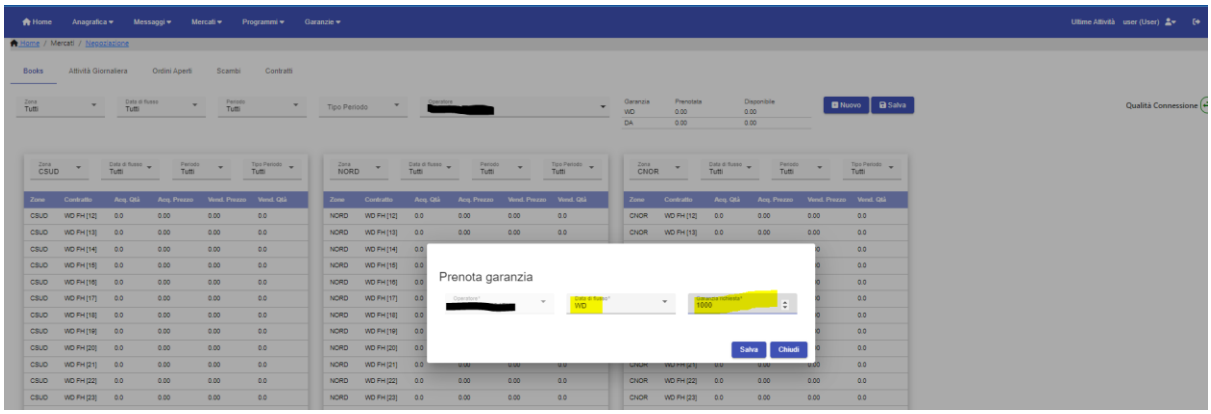


Figure 16: Reservation of a financial guarantee.

At the close of the last tradable period for a certain flow date, the reserved and available financial guarantee is changed automatically. In particular, as soon as the last period of a given flow ceases to be definitively schedulable, the financial guarantees booked and available for that flow date are automatically set to 0 and a notification is sent to the Netting system in order to consolidate the

exposures and/or the receivables deriving from the trade balances accrued for the flow date in question.

SUBMITTING ORDERS

The user with **user** rights may enter orders (only on behalf of participants falling under its responsibility) by interacting with the book through the selection of a product in the purchase or sale price cell. This causes the opening of a box with the pre-set type of order (the type of order is the opposite of that of the cell clicked on, so if the user clicked on the purchase price cell, the pre-set type of order will be a sale), containing the minimum fields necessary to submit a standard order.

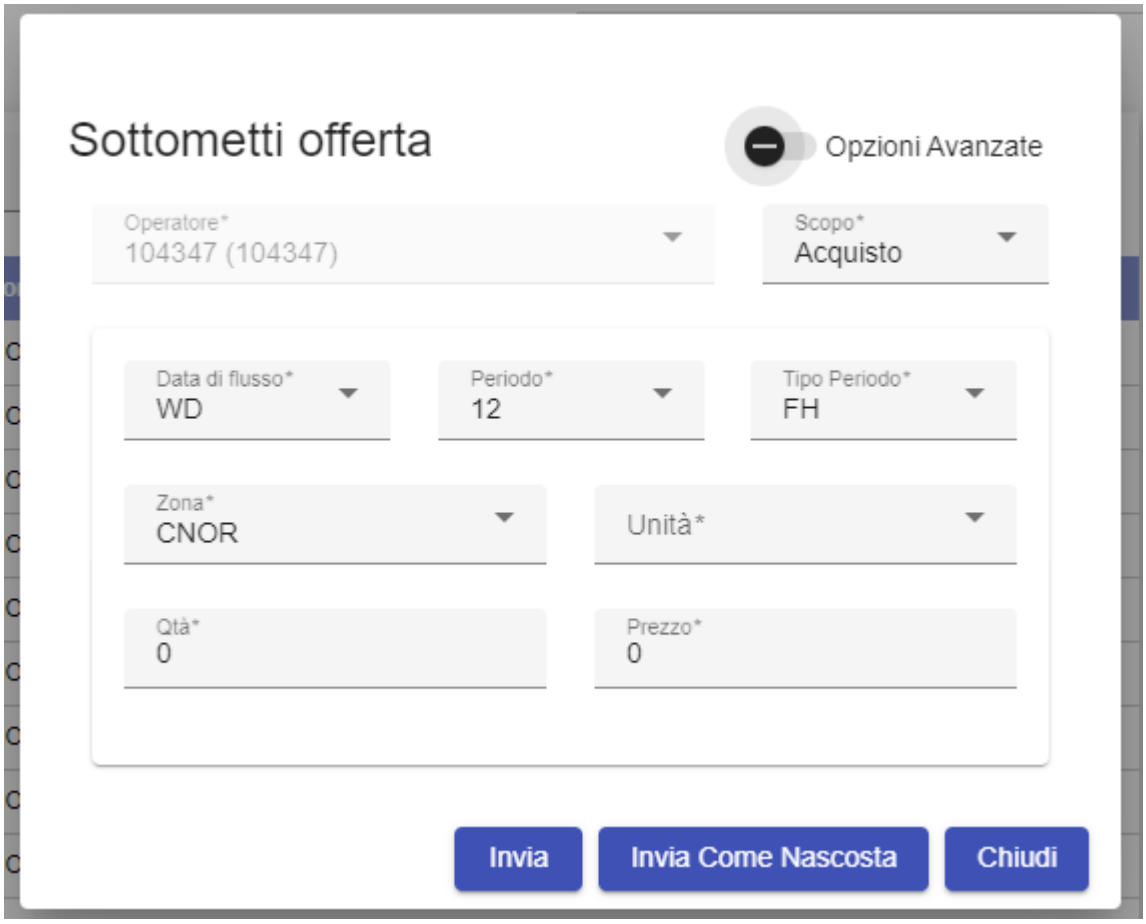


Figure 17: Standard order submission pop-up window.

The quantity submitted will be expressed in MWh. If a price already exists in the selected cell of the book (i.e. if an order already exists on the book), the pop-up window captures the price and quantity and presents them in the respective input fields. The user can modify the values before sending the order.

To submit a standard order, it is in fact necessary to specify (in addition to the participant code and delivery area set by default when the web form is opened) only quantity, price (orders without a price specification are not permitted under any circumstance), sign of the order (buy or sell order), zone, ISP, type of period (FH hourly, QH quarter-hourly), unit and the type of sending, i.e. normal (default choice) or hidden.

To access other order presentation settings, select 'Opzioni avanzate'.

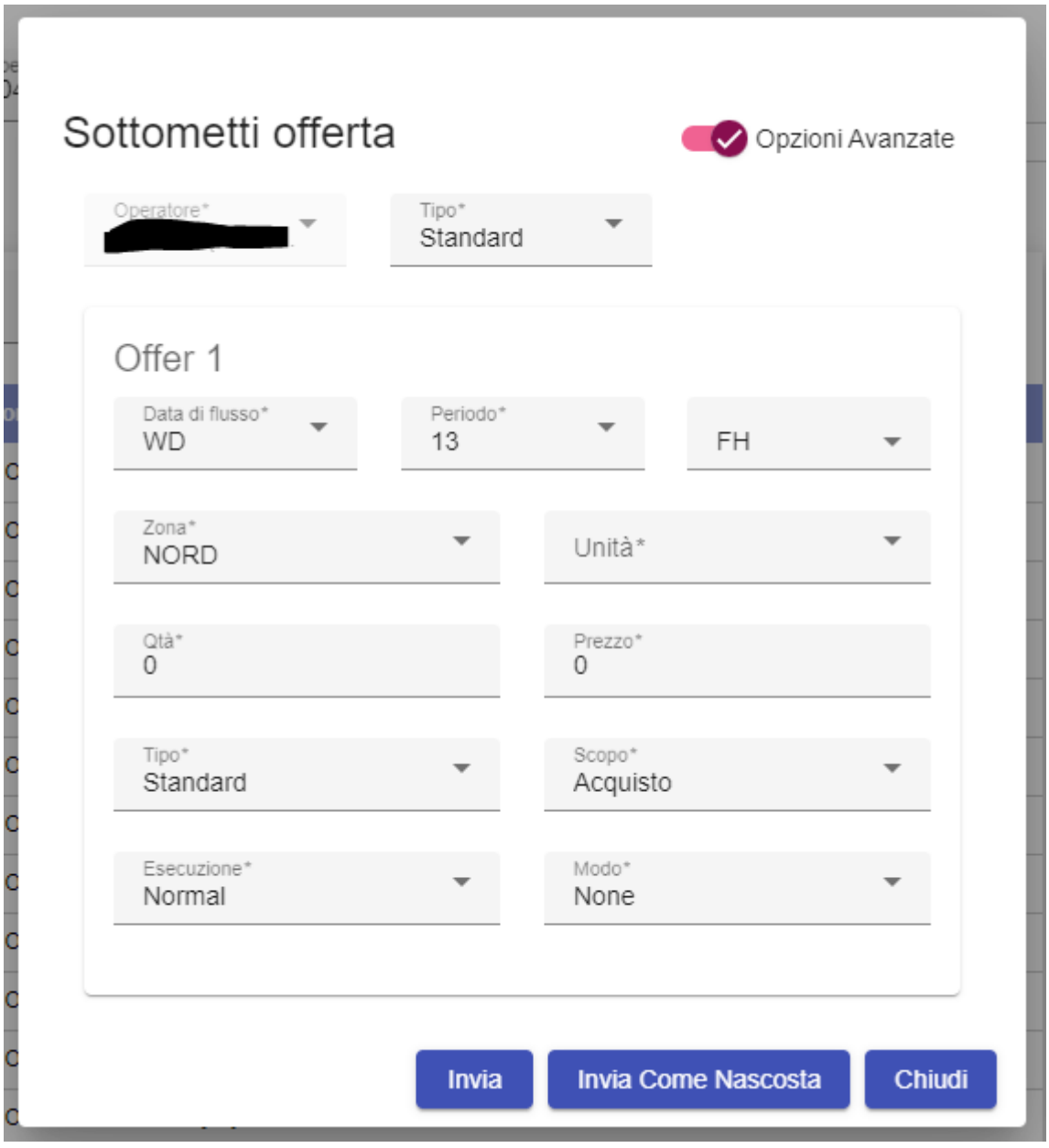


Figure 18: Pop-up window for submitting an order with advanced options.

The editable fields in the submission pop-up window also include the one relating to the order execution mode: 'Normal', 'Execute and Delete', 'Execute or Delete'.

With regard to 'Execute and Delete', the order is presented on the book, matched by the matchable quantity and then removed from the book.

The 'Execute or Delete' mode provides that the order is matched immediately; in the event that this is not possible at the time of presentation on the book, the order is removed. The 'Mode' selection is used to indicate the market date until which the offer must be presented on the book. In 'Good till date' mode, once the date indicated in the Expirytime has expired, the order is automatically revoked. The ExpiryTime is an optional field: if it is not filled in by the user, the end date of tradability of the contract indicated closest to the time at which the order is submitted is entered by default. The value must be set as a multiple of 5 minutes, e.g.: XX:05, XX:10 etc.

In the case of orders of the Basket type, groups of orders may be sent in the same transaction, each independent of the others. In the event that a basket order is submitted via the web form, a mask with n rows opens (it is possible to add or delete them from time to time using the '+' or '-' buttons).

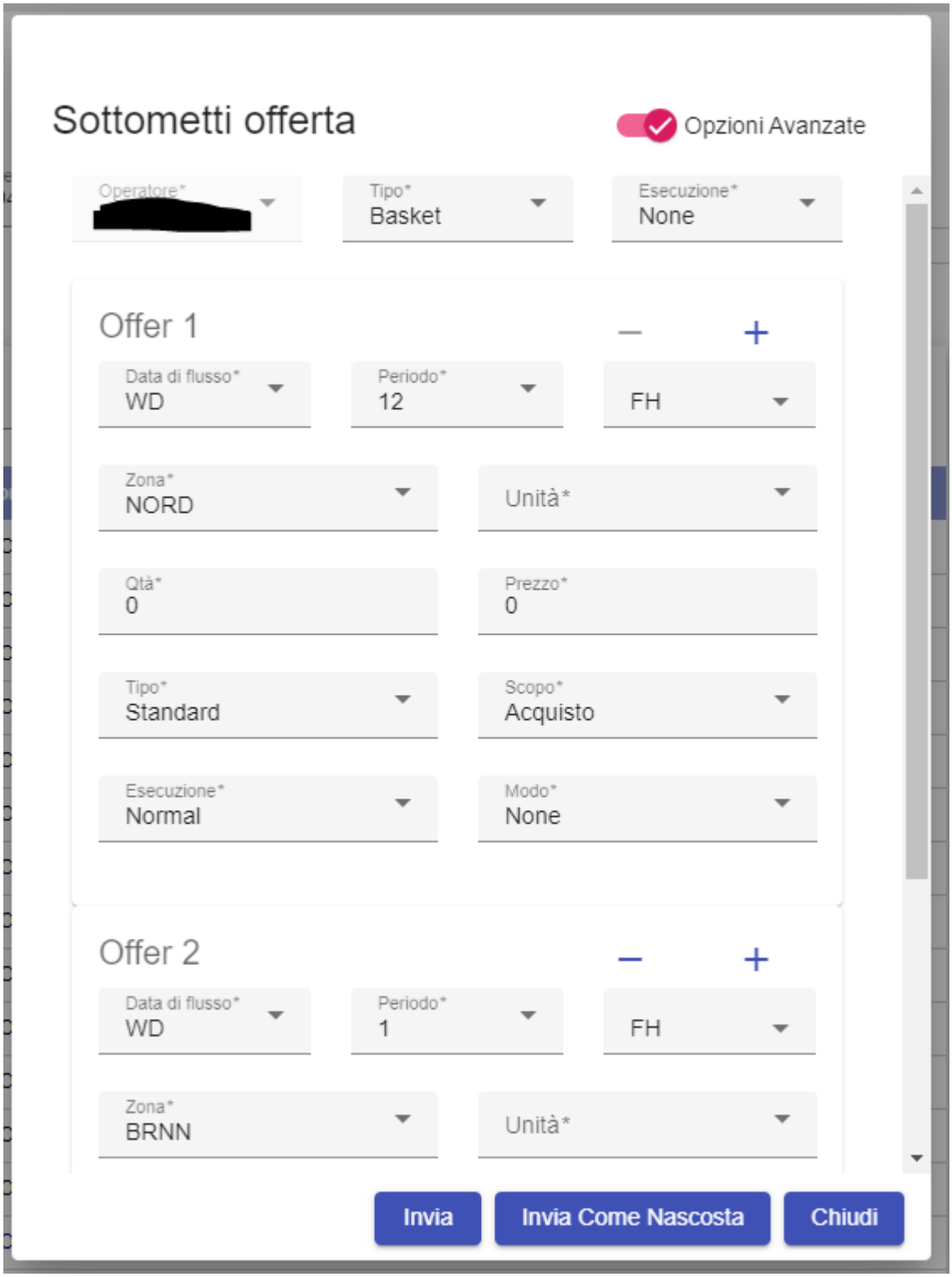


Figure 19: Basket order submission pop-up window.

For each row it is possible, through a drop-down menu, to enter: product, quantity, zone, price, purpose and order restriction. It must be possible to associate an execution instruction with the entire basket:

- None, i.e. no execution instruction. Orders will be processed as if they were received separately. Any violations of the validation conditions by one or more orders have no impact on the other orders. In this case, all the orders underlying a basket with a “None” execution instruction.
- Valid, i.e. if even a single offer is not adequate, all the orders are rejected. Once successfully submitted to the book, they remain there until deleted, matched or hidden.
- Linked, i.e. all orders in the basket must be matched immediately and not partially, otherwise no order can be executed.

The orders presented can still be of the standard type (without any particular feature), or Iceberg type (i.e. an order characterised by a total quantity, a peak quantity, a hidden quantity, an offer price, a zero or positive delta price for sell orders, a zero or negative price delta for buy orders). The exposed quantity (the slice, equal to total quantity - hidden quantity) must be greater than or equal to 5.

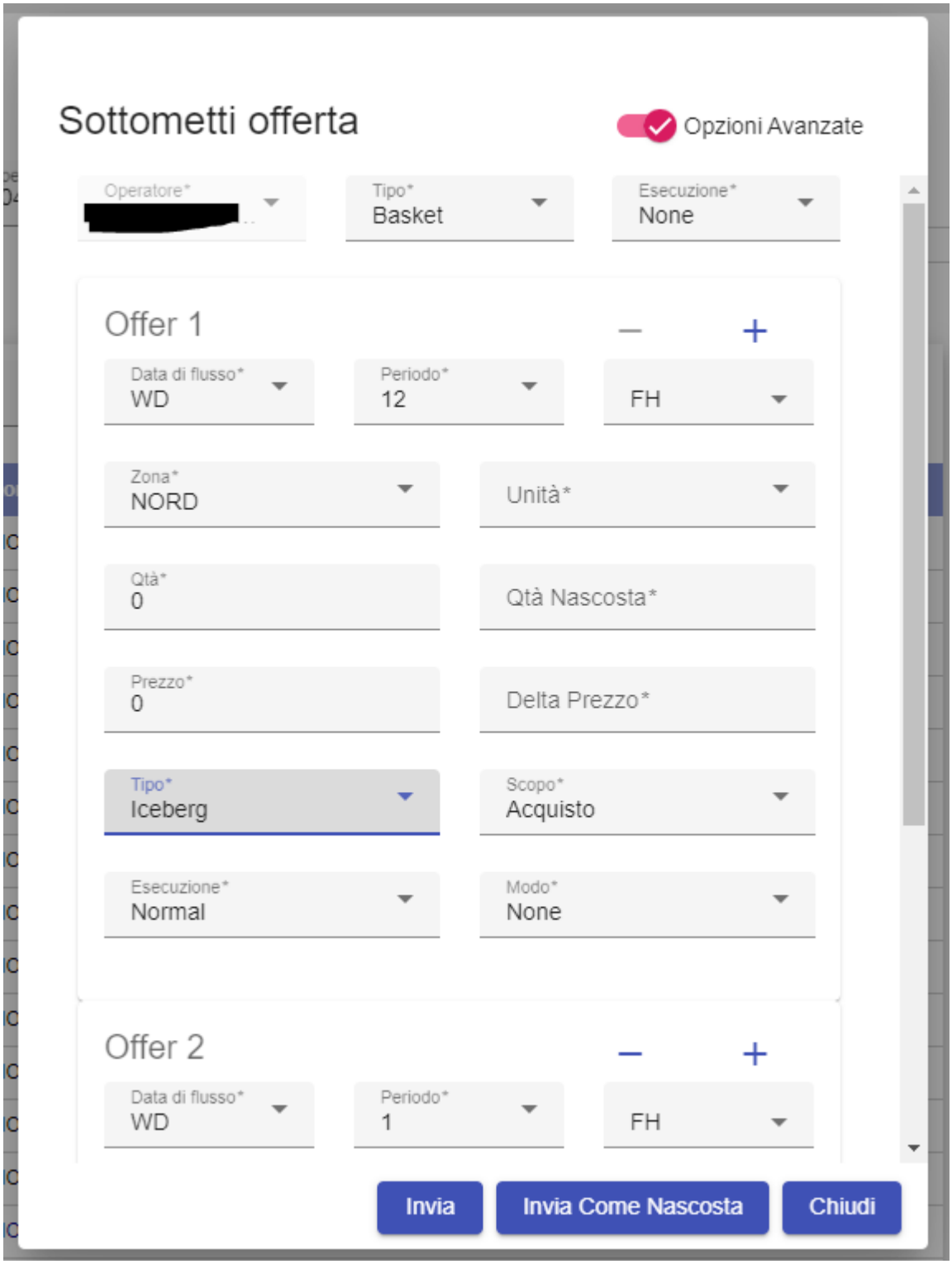


Figure 20: Iceberg order submission pop-up window.

By clicking on the **Send** button it is possible to proceed with normal sending of the order.

By clicking on the **Send as Hidden** button, the order is sent in hidden mode, so it will not be visible on the book for other participants.

When the system has processed the order, a red Alert light will appear in 'Ultime Activities' (Figure 22): transaction result (the number inside the Alert indicates how many transactions entered have been successful). Clicking on the BidSubmittal label will show the xml file containing the order that the participant has sent to the system, with the relative FA).

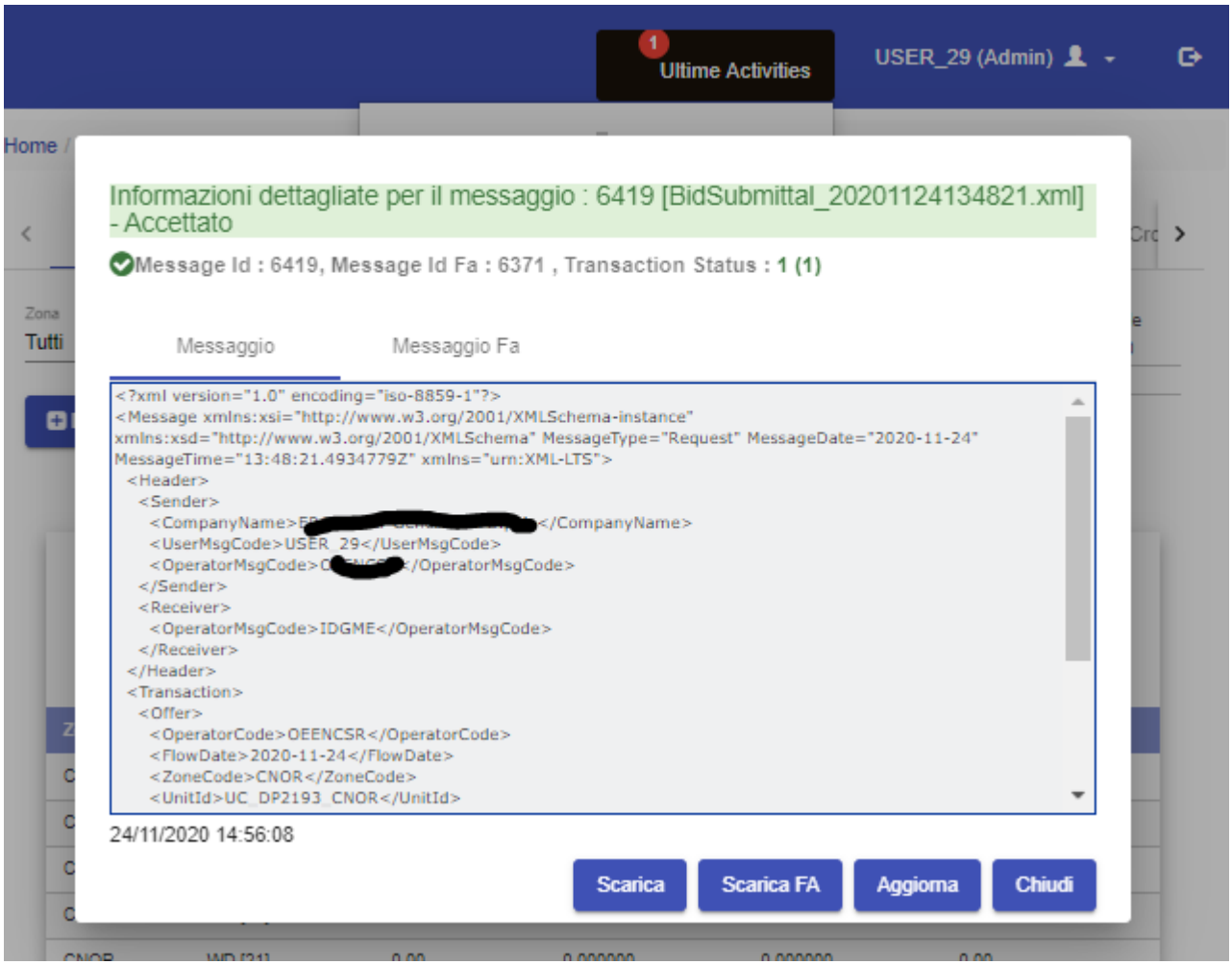


Figure 21: Transaction result.

For an order to be successful, the user submitting the order must have deposited their digital signature. Checks are also carried out to avoid self-matching, i.e. a participant cannot submit a buy (sell) order that matches a sell (buy) order submitted by the same participant, in the same zone for the same unit.

Furthermore, before sending the orders to the XBID, the following checks are carried out on the submitted orders:

- validity check: the product must not have exceeded its expiry date; the participant must be active (not excluded or suspended); the market session must be open; the participant must be entitled to submit orders on the indicated account;

- financial adequacy control: the financial guarantee commitment linked to the submission of the order must not exceed the guarantee amount reserved;
- physical adequacy check: the amount offered for purchase (sale) must not exceed the residual step-down (step-up) margins of the selected unit:
- price check: the offer price cannot be higher (lower) than a pre-established maximum (minimum) limit price.

MODIFYING ORDERS

The user can change the details and status of an order during the period in which the market session is open for trading.

The operation is performed directly from the 'Book', by clicking on the cell relating to the quantity, or from the 'Open Orders' page, as shown in Figure 23.

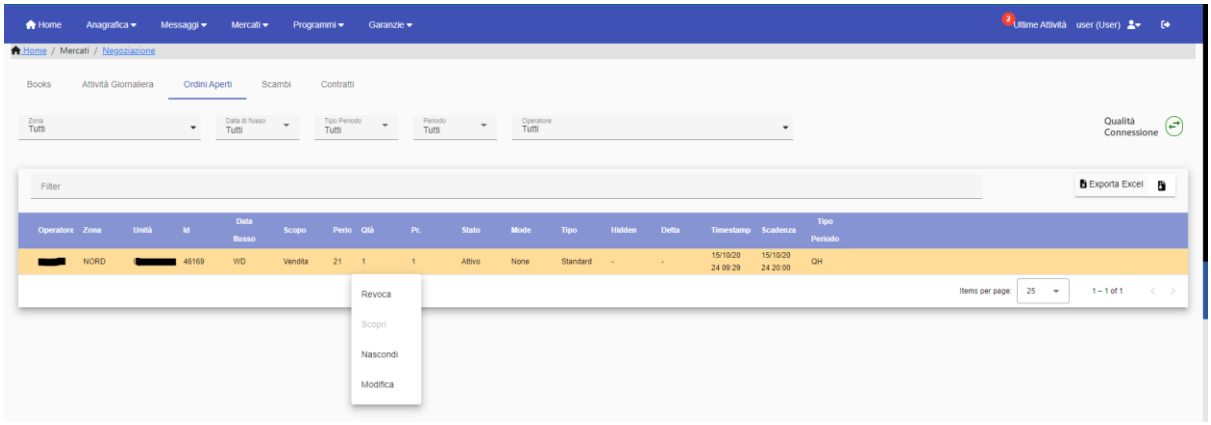


Figure 22: The open orders page.

The columns of the table show the participant code, the unit, the identification of the order, the flow date, the sign of the order, the ISP for which the order was submitted, the type of period (FH hourly, QH quarter-hourly), the quantity submitted expressed in MWh, any quantity already matched, the price submitted, the status of the order, any limitations or presentation methods (**normal** , **execute and cancel**, **execute or cancel**) with which the order was submitted, the timestamp, and the expiry of the order, respectively.

Figure 23: Changing an order.

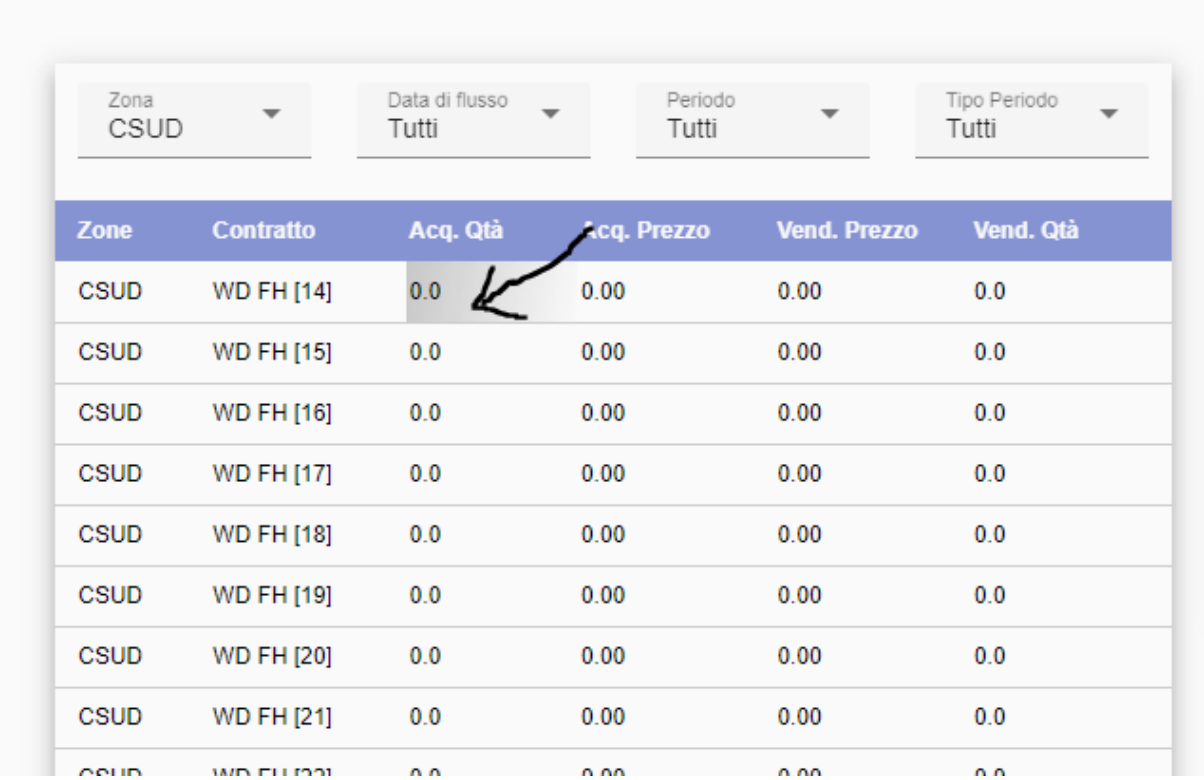
By clicking on a row in the table and selecting the 'edit' option, a pop-up window opens where it is possible to change the price and quantity of the order.

By selecting **'Hide',** the order is hidden from other participants and is no longer visible in the book.

Conversely, **Show** makes hidden orders visible, making them reappear on the book.

By selecting **Revoke,** an order is permanently revoked.

A hidden order is however indicated on the order book of the participant that presented it with grey colouring of the cell corresponding to the quantity (Figure 25: Hidden order).



Zone	Contratto	Acq. Qtà	Acq. Prezzo	Vend. Prezzo	Vend. Qtà
CSUD	WD FH [14]	0.0	0.00	0.00	0.0
CSUD	WD FH [15]	0.0	0.00	0.00	0.0
CSUD	WD FH [16]	0.0	0.00	0.00	0.0
CSUD	WD FH [17]	0.0	0.00	0.00	0.0
CSUD	WD FH [18]	0.0	0.00	0.00	0.0
CSUD	WD FH [19]	0.0	0.00	0.00	0.0
CSUD	WD FH [20]	0.0	0.00	0.00	0.0
CSUD	WD FH [21]	0.0	0.00	0.00	0.0

Figure 24: Hidden order.

Note that following an operation to modify an order or to change the status of an order, the order itself loses time priority with respect to the other orders already present in the book. Therefore, at the same price, an order modified or subject to a change of status will have lower priority than the orders on the book at the time of the change.

BOOK DETAILS

The LTS_NS updates its local books on the basis of the information received from the XBID SOB module following certain events, such as for example the insertion/modification/cancellation of an order, the exit from the trading of a contract, the change of status of a delivery area, of a market zone, of the interconnection limits between zones, etc.

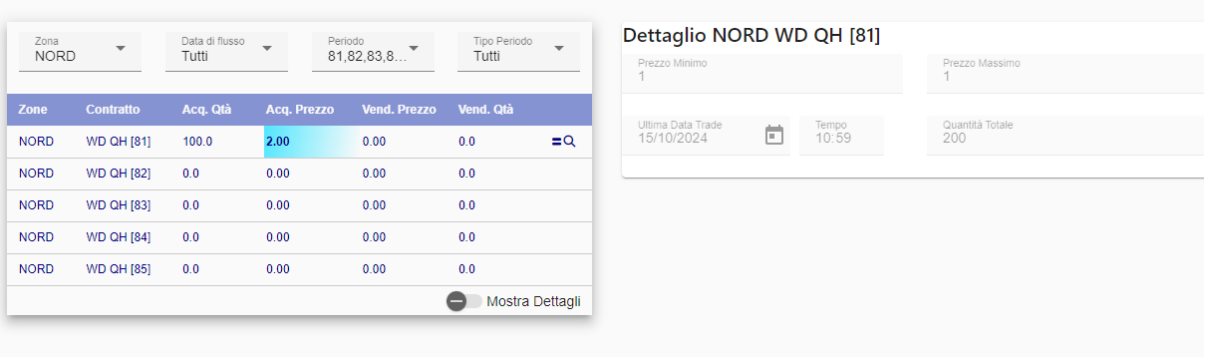


Figure 25: Order book details.

In addition to the information relating to orders, the LTS_NS book reports, for each contract-delivery area combination:

- the last matching price;
- the last matched quantity;
- the total matched quantity;
- the highest matching price;
- the lowest matching price;
- the price direction.

The depth of the book is updated following the same events as those that determine the updating of the books. On the book, in the presence of orders presented by the selected participant, the “Price” cell will be coloured blue (completely if all the orders at the best price level belong to the participant, partially otherwise). By clicking on the cell relating to the quantity, all other orders will be shown (Figure 27).

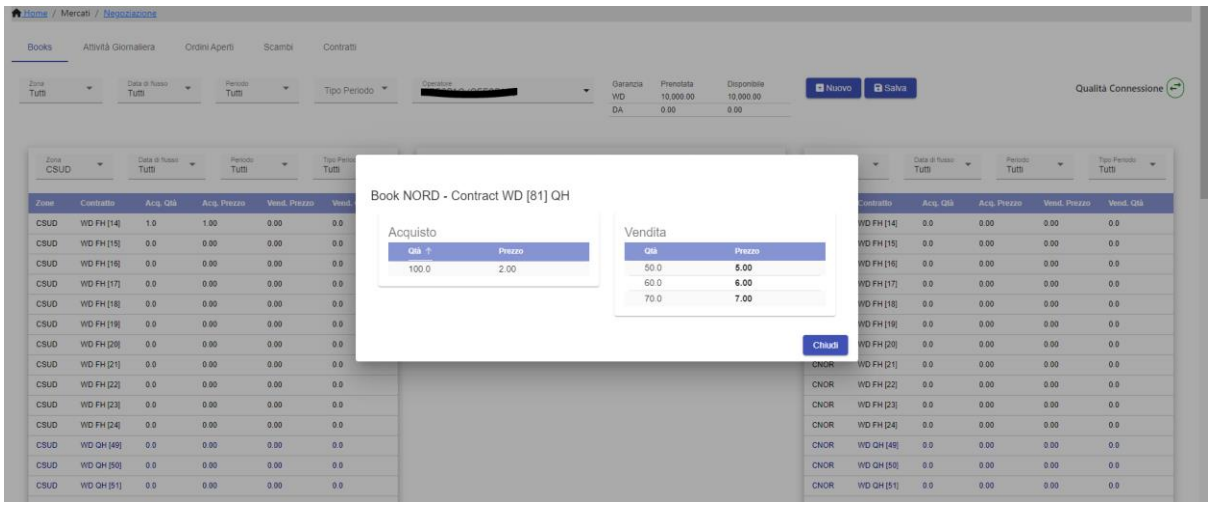


Figure 26: Book depth.

DAILY ACTIVITY

The 'Daily activity' page (Figure 28) shows all the activity of a participant, in terms of operations on the book.

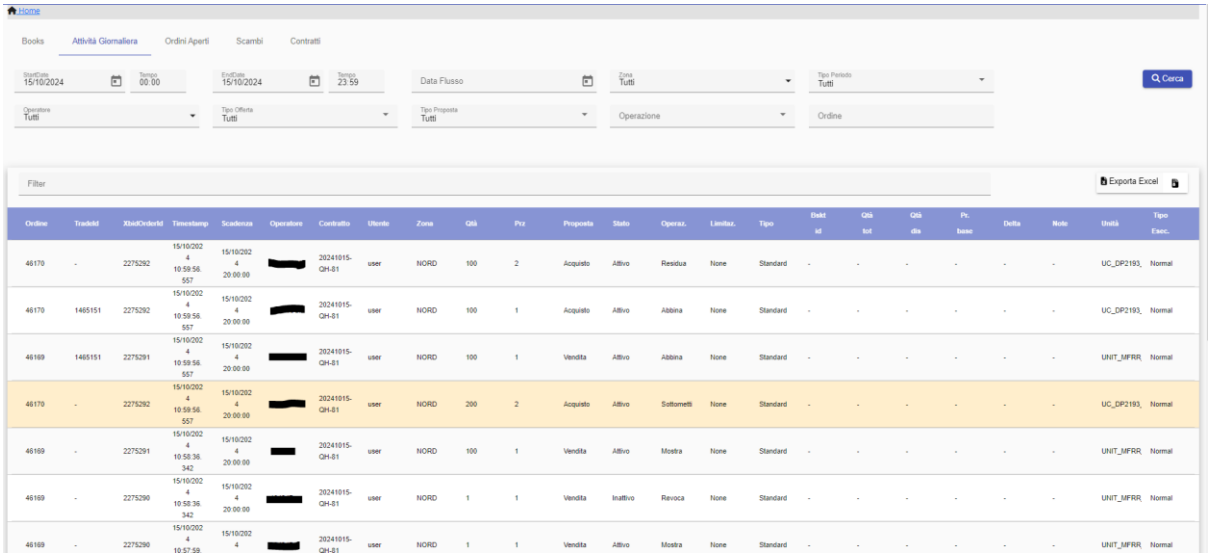


Figure 27: Daily activity.

All the details relating to the orders submitted by the user are shown; the unique identifier of the order, any identifier of the match, the timestamp, the participant code, the product on which the order was made, the code of the user that carried out the operation, the zone, the quantity offered (expressed in MWh), the price relating to the operation to which the order was submitted, the status of the order, the method of placing order, the possible unit on which the order has been submitted and any error code in the event that the order has been rejected, reported in the notes field.

In case of a Basket order, the Basket Id will be present.

In the event of an Iceberg order, the base price and the delta price will also be shown.

The data can be filtered at the top of the page in relation to Start/End Date (date of submission of the order), participant, type of order (standard, iceberg or basket), type of proposal (purchase or sale), operation (all, submit, hide, revoke, match, reject), zone and order.

The free filter (Filter) is present on the page

It is also possible to export the report in Excel format by clicking on the ‘Esporta Excel' button.

OPEN ORDERS

The 'Open Orders' page shown in Figure 29 shows the orders relating to the selected participant submitted on the book and not yet matched (or partially matched and with residual quantity still available on the order book).

The data can be filtered at the top of the page in relation to zone, flow date, type of period, ISP and participant.

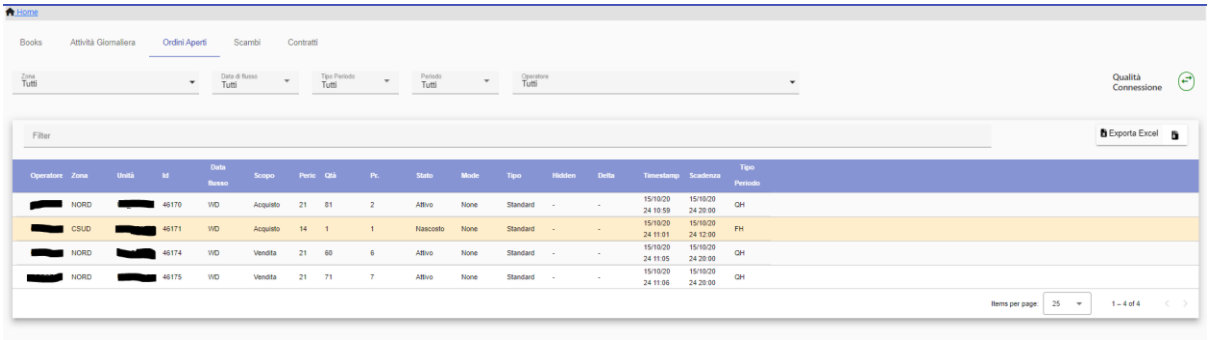


Figure 28: Open orders.

The details shown include the participant code, the zone, the unit, the quantity submitted (expressed in MWh), the type of order, the price submitted, the matched quantity, the flow date, the status of the order, the expiry date, the order method and the price.

The free filter (Filter) is present on the page.

It is also possible to export the report in Excel format by clicking on the ‘Esporta Excel' button.

TRADES

The 'Trades' page (Figure 30) shows the concluded transactions.

The data can be filtered at the top of the page in relation to the start/end date of trading, zone, flow date, ISP and participant.

Details are shown, such as: the matching date, the delivery area of origin and destination, the name of the contract, the id of the buying participant and that of the reselling participant, the quantity and price accepted, the value and the Trade Id.

The free filter (Filter) is present on the page.

It is also possible to export the report in Excel format by clicking on the ‘Esporta Excel' button.

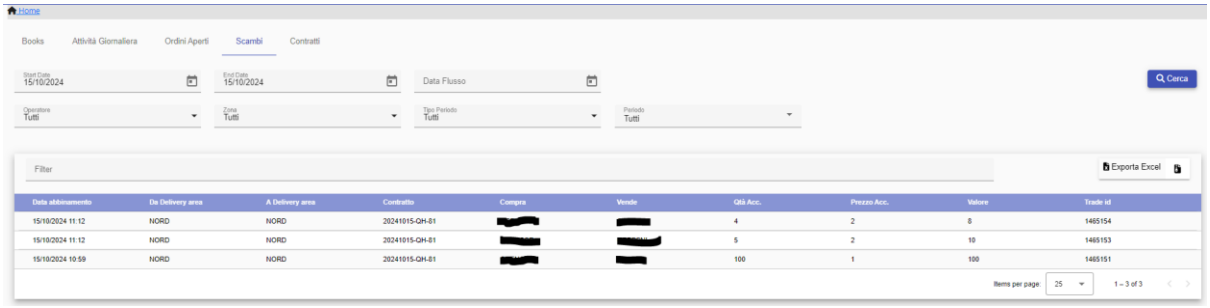


Figure 29: Trades.

CONTRACTS

The 'Contracts' page shown in Figure 31 shows the tradable contracts on the book for each flow date.

The data can be filtered at the top of the page in relation to the start/end date of delivery, zone, ISP, type of period. There is also an 'Active Only' check box that is used to alternate the display of all contracts or restrict it to only active ones.

Details such as the ID, the name of the contract, the zone, the start/end date of trading, the start/end date of delivery and the tradability interval of the product are shown in the report.

The free filter (Filter) is present on the page.

It is also possible to export the report in Excel format by clicking on the ‘Esporta Excel' button.

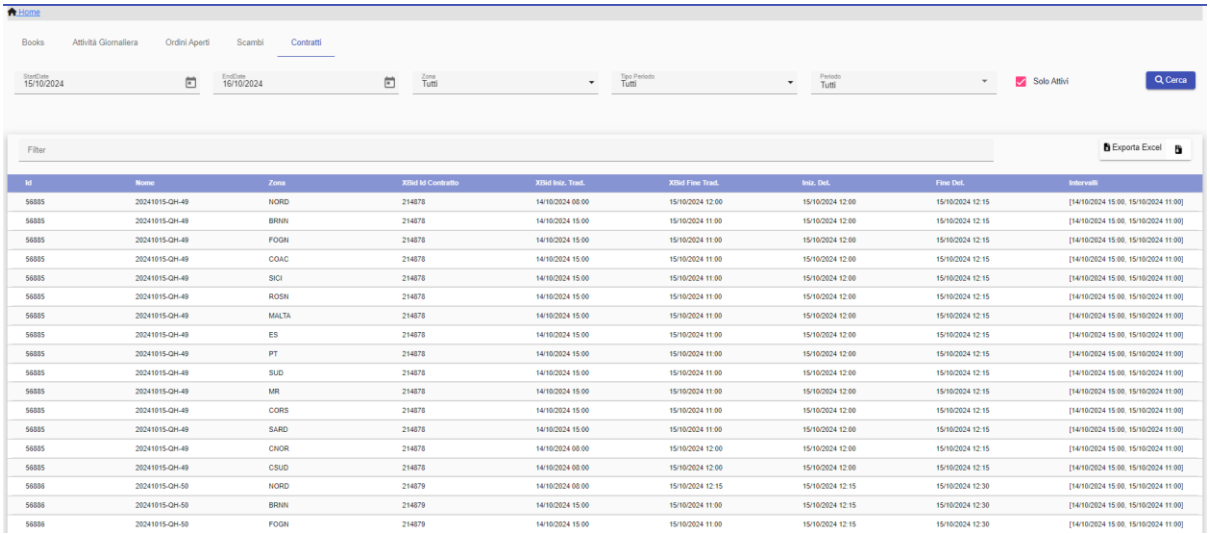


Figure 30: Contracts.

IPEX RESULTS

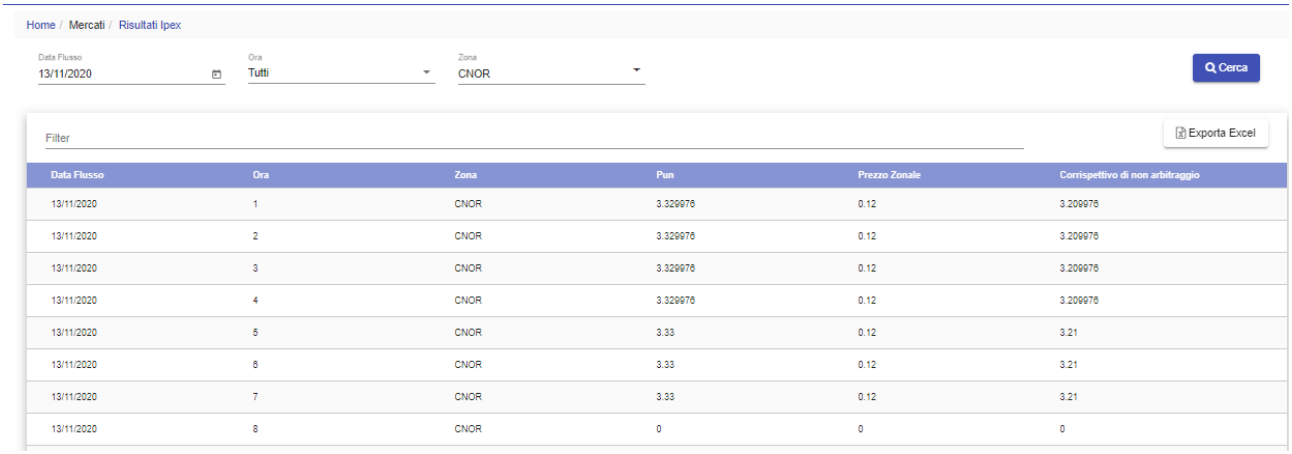
The 'IPEX Results' page reported in Figure 33 shows by default the report relating to the results of the last confirmed MGP market.

The data can be filtered at the top of the page in relation to flow date, zone and time.

Details such as flow date, time, zone, Pun, zonal price and CCT are shown.

The free filter (Filter) is present on the page.

It is also possible to export the report in Excel format by clicking on the 'Esporta Excel' button.



Data Flusso	Ora	Zona	Pun	Prezzo Zonale	Corrispettivo di non arbitraggio
13/11/2020	1	CNOR	3.329976	0.12	3.209976
13/11/2020	2	CNOR	3.329976	0.12	3.209976
13/11/2020	3	CNOR	3.329976	0.12	3.209976
13/11/2020	4	CNOR	3.329976	0.12	3.209976
13/11/2020	5	CNOR	3.33	0.12	3.21
13/11/2020	6	CNOR	3.33	0.12	3.21
13/11/2020	7	CNOR	3.33	0.12	3.21
13/11/2020	8	CNOR	0	0	0

Figure 31: Ipex results.

COMPLAINTS

Figure 34 shows the 'Complaints' page through which it is possible to present and monitor the progress of complaints. Each complaint can be entered and then updated by associating it with new messages. It is possible to see the list of all the complaints made for the participant represented by the user, namely: the unique identifier of the complaint, the timestamp indicating the time of submission, the code and the company name of the company (participant) to which the complaint refers, the user that submitted the complaint and their first name and surname, the market (XBID), the title of the complaint, the description and its status. By clicking on the complaint, it is possible to open the details relating to the messages associated with the selected complaint, possibly replying (Reply) to the response obtained from GME. When the complaint is closed by GME, it is no longer possible to reply.

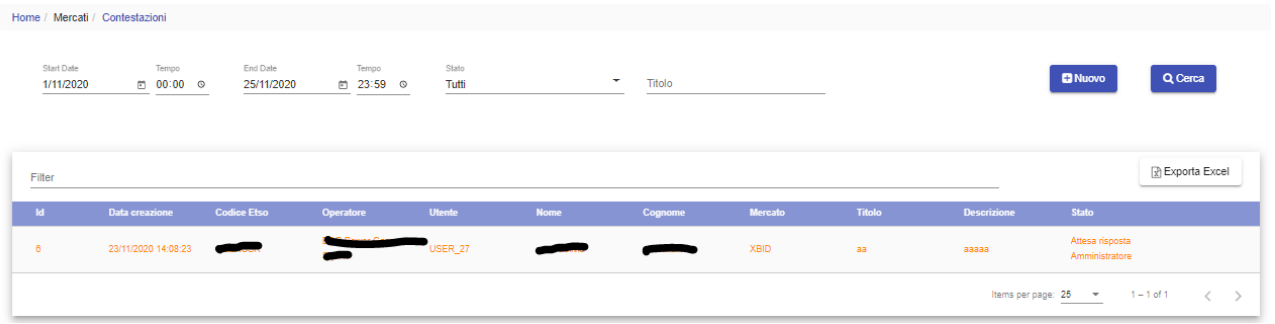


Figure 32: Complaints.

Using the icon Nuovo it is possible to open the window to add a new complaint, as shown in Figure 35.

The free filter (Filter) is present on the page.

It is also possible to export the report in Excel format by clicking on the 'Esporta Excel' button.

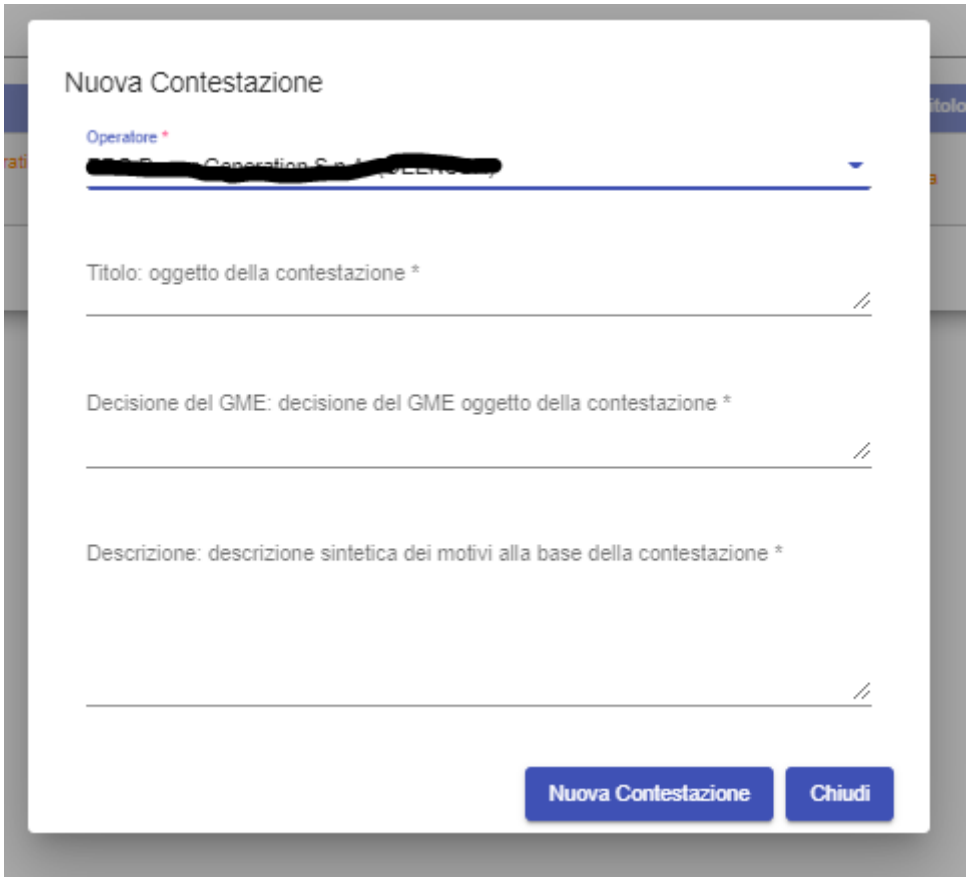


Figure 33: Insertion of a new complaint.

SCHEDULES

The expression physical scheduling (or nomination) refers to that set of activities that allow each participant to indicate:

- how much energy is to be injected into the electricity grid through the generating or pumping units that the participant has available for a specific ISP on a certain date, following the trading activity carried out in the MI-XBID;

- how much energy is to be withdrawn from the electricity grid through the generating or pumping units that the participant has available for a specific ISP on a certain date.

The nomination is closely related to:

- the commercial position accrued at zonal level by participants in the MGP market;
- the commercial position accrued at zonal level by participants in the MI auction market;
- the commercial position accrued at zonal level by participants in the continuous trading MI-XBID market.

PHYSICAL SCHEDULING

The 'Physical scheduling' page is used to submit, modify, revoke and view the physical scheduling of participants under the user's responsibility (Figure 36).

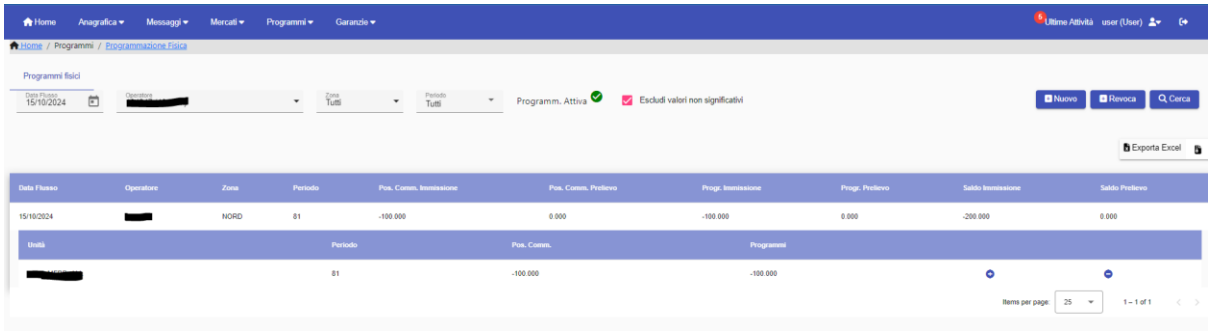


Figure 34: Physical scheduling.

The data can be filtered at the top of the page by flow date, participant, zone and period.

The Flag Programm. Attiva indicates that the system enables to submit an explicit physical scheduling at a given time.

The check box Escludi valori non significativi enables to hide the display of rows with no commercial positions.

By default, the page shows a report where details are shown including: flow date, participant code, zone, period, commercial position (negative for injection, positive for withdrawal), injection and withdrawal schedules presented and sent (positive for injection schedules, negative for withdrawal schedules), injection balance and withdrawal balance (delta between the net position and the schedules presented).

In particular:

- in the event that the schedule presented is lower than the net position: the balance on what has been presented will be highlighted in orange;
- in the event that the schedule presented exceeds the net position: the balance on what has been presented will be highlighted in red;
- in the event that the schedule sent is lower than the net position: the balance on what has been sent will be highlighted in yellow.

For each period and zone, on the same page, it is possible to view the units on which the physical scheduling has been carried out.

By clicking on a row of the report relating to a period/zone, the table will be expanded with the details of the units associated with the zone (units, period, net position, schedules presented and sent). For the hours still included in the schedulability interval, it will be possible to submit (or revoke) explicit schedules by directly selecting the unit to be scheduled, using the '+' (submit) or '-' (revoke) buttons, which will allow the opening of a web form for submitting the schedule. The same submission or revocation form of a schedule can also be opened using the two buttons Nuovo and Revoca .

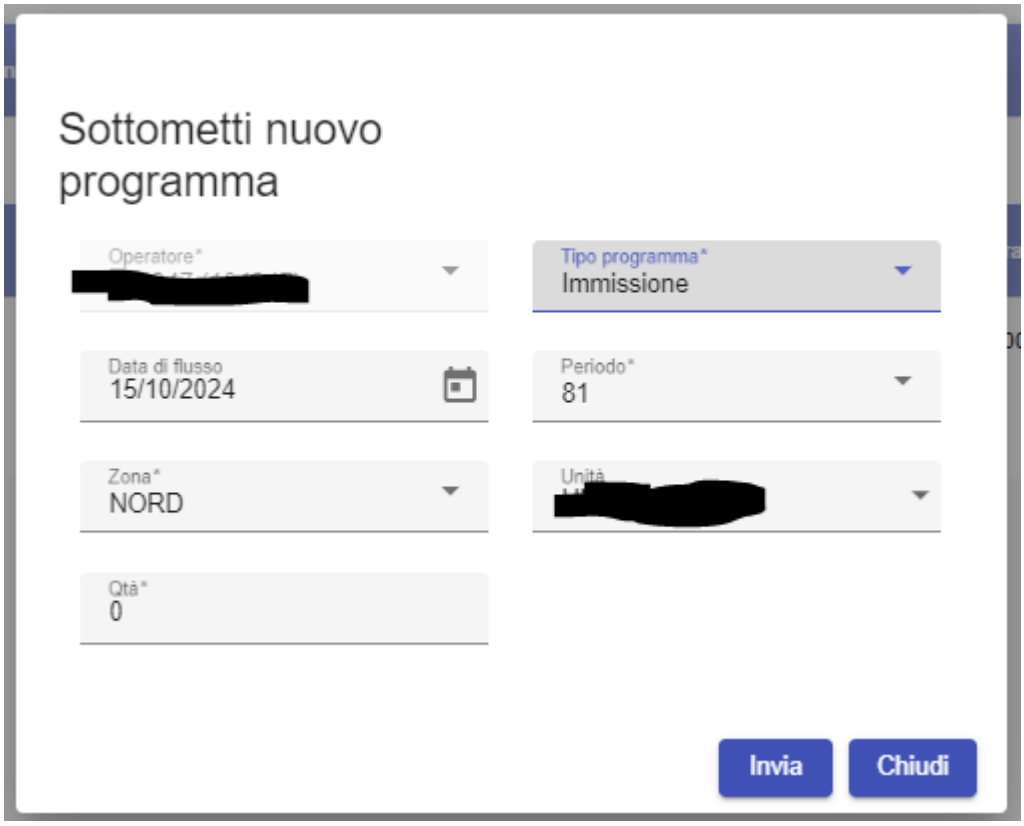


Figure 35: Submission form for a new schedule.

It will not be possible to submit or revoke explicit schedules on national consuming units and on non-schedulable units (including the units in the intervals in which they must run) or to revoke implicit schedules submitted on any unit.

Explicit schedules can be changed within the schedulability range.

The schedules of the individual units will be sent to IPEX:

- as definitive nominations, 57 minutes before the start of the period Q for the period Q;
- as pre-nominations, 57 minutes before the start of the period Q, for all the reference periods equal to or following Q+1.

When the schedules are being sent, the LTS_NS will carry out physical adequacy checks for all the ISPs covered by the same schedules and:

- if an explicit schedule is assigned to a suspended participant, the schedule is rejected;
- if the schedule is assigned to a disabled unit, or is no longer available to the participant, the schedule is rejected;
- if the schedules exceed the margins of the individual units for which they have been presented, they are curtailed as described in the Technical Rules;
- if the overall schedules submitted inside a zone exceed the commercial positions accrued in the same zone, they are curtailed as described in the Technical Rules;
- if the schedules presented are lower than the minimum of the feasibility interval communicated by TERNA, the LTS_NS will carry out the stretching of the schedule, even if this involves a violation of the control referred to in the previous point.

Also on this page it is possible to export the report in Excel format by clicking on the 'Esporta Excel' button.

NET POSITIONS

The 'Net Positions' page shows the report on net zonal positions.

The expression "net position" refers to the commercial position accrued by a participant in the MGP, MI-AUCTION and MI-XBID. For each participant, each ISP and each zone, the net position is calculated by adding the volumes of matched sell orders (with a negative sign) and those of matched buy orders (with a positive sign).

The data can be filtered at the top of the page in relation to the start and end date of flow, zone, participant code and ISP.

Details such as flow date, zone, participant code, period and net position (expressed in MWh) are shown.

The free filter (Filter) is present on the page.

It is also possible to export the report in Excel format by clicking on the ‘Esporta Excel' button.

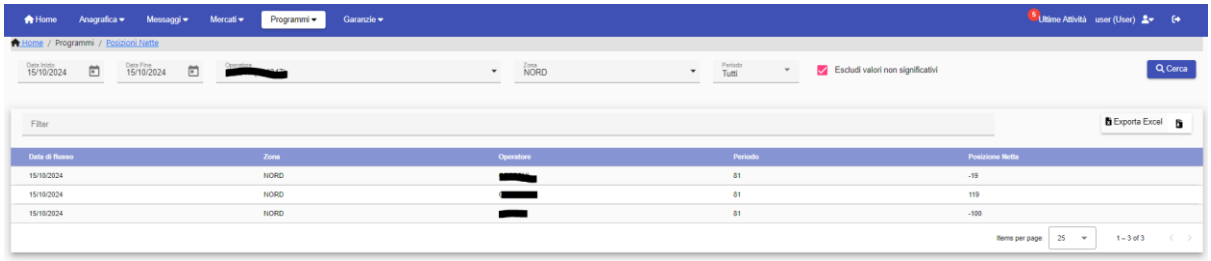


Figure 36: Net positions.

UNIT SCHEDULES

A successfully entered schedule must update the 'Unit Schedules' page.

Figure 39 shows the page. The report can be refined by filtering by flow date, participant, zone and period.

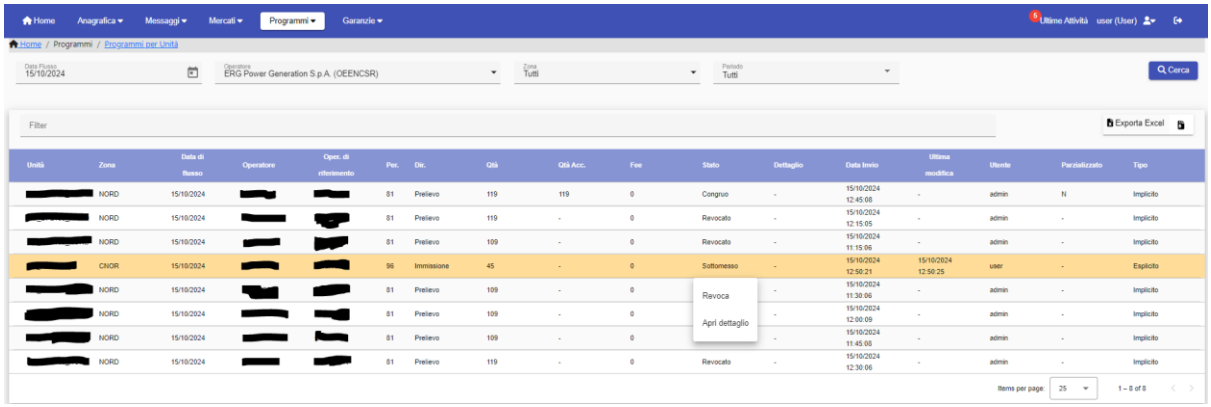


Figure 37: Unit schedules.

Details are shown such as: the unit, the flow date, the participant, the reference participant, the period, the direction of the physical scheduling (injection or withdrawal), the accepted quantity, the status of the submitted schedule, any details, the timestamp, any timestamp of the last modification, the user that submitted the schedule and the type of scheduling (implicit, explicit or stretching).

By clicking on the row relating to a schedule still included in the schedulability interval, it is possible to revoke it (Figure 40), otherwise it is possible to view its details in a pop-up window.

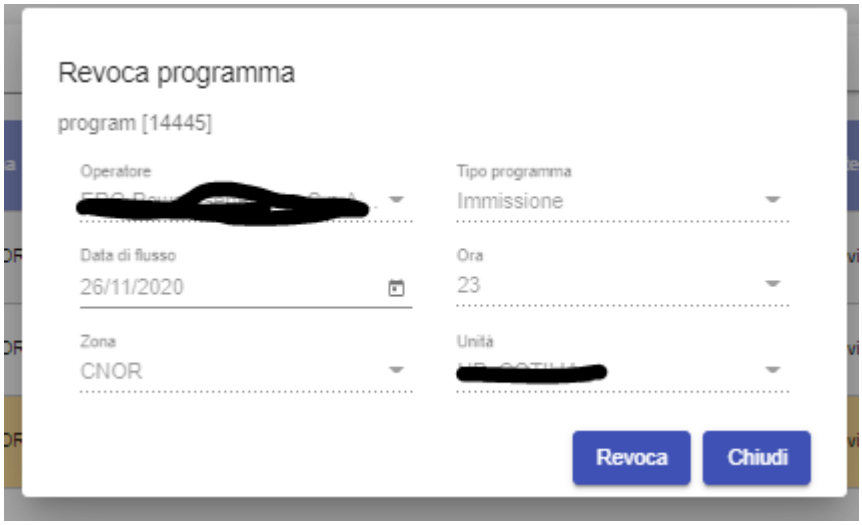


Figure 38: Revocation of a schedule.

GUARANTEES

In the section dedicated to the management of financial guarantees, it is possible to view the details of the financial guarantees booked for the purposes of MI-XBID trading, the exposures/credits accrued as a result of the trades concluded and the orders presented and the overall situation of the participant on the Netting system.

The available amount of financial guarantees may vary as a result of:

- the matching of a buy/sell order;
- the matching of a buy order, at a positive price, commits a booked guarantee for 100% of its value. In particular:
  - for buy orders without indication of units or for buy orders on units other than national consuming units, it will be equal to its value;
  - for buy orders on national consuming units, it will be equal to its value corrected by the non-arbitrage fee;
- the matching of a buy order, at a negative price, releases a booked guarantee for 100% of its value. In particular:
  - for buy orders without indication of units or for buy orders on units other than national consuming units, it will be equal to its value;
  - for buy orders on national consuming units, it will be equal to its value corrected by the non-arbitrage fee;
- the matching of a sell order, at a negative price, commits a financial guarantee for 100% of its value. In particular:
  - for sell orders without indication of units or for sell orders on units other than national consuming units, it will be equal to its value;
  - for sell orders on national consuming units, it will be equal to its value corrected by the non-arbitrage fee.

Finally, it is not possible to commit a financial guarantee value higher than the amount booked.

GUARANTEE REPORT

The 'Guarantee Report' page allows the user to view the situation of the financial guarantees booked relating to the MI-XBID market in relation to the participants that they represent.

The data can be filtered through the participant's drop-down menu, or through a free filter (Filter).

The report contains information such as the code and company name of the participant, the amount of the guarantee booked, used and available for each flow date/trading date combination, and the period of the last booking

It is also possible to export the report in Excel format by clicking on the 'Esporta Excel' button.

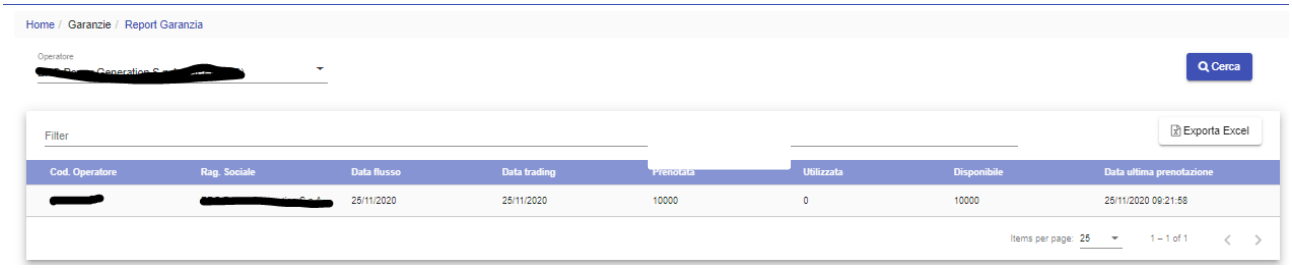


Figure 39: Guarantee report.

GUARANTEE DETAILS

The 'Guarantee Details' page is used to view the general status of the financial guarantees available, deposited on the Netting system (and therefore also relating to the other markets relating to Netting) of the participants associated with the user (Figure 42).

For each participant selected from the drop-down menu, the following data is displayed:

- in the 'Guarantee Situation' section (relative to the current date):
  - the initial guarantee, i.e. the overall amount of valid guarantees registered on the Netting system;
  - the available amount of the guarantee, i.e. the residual amount of the guarantee;
  - the exposure, i.e. the overall position of the participant as determined from all the positions held on all the platforms participating in the Netting system;
- in the section 'Details of the situation of guarantees' (relating to the current date):
  - all the deposits and bank guarantees relating to the centralised Netting guarantee system (Figure 42).

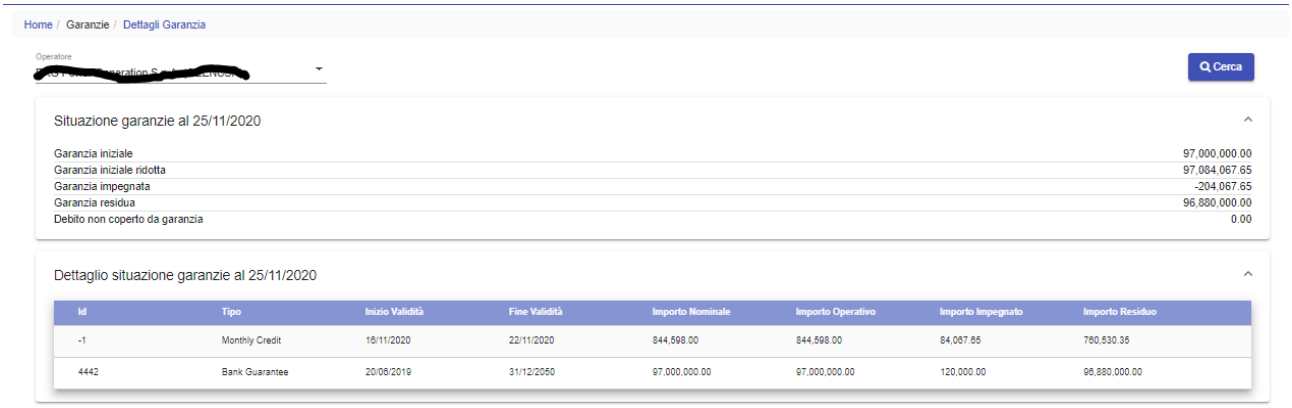


Figure 40: Guarantee details.