

KAZAKHSTAN STOCK EXCHANGE JSC

Approved by

by a decision of the Management Board
Kazakhstan Stock Exchange JSC

(Minutes No.74 of meeting dated
of June 9, 2022)

Effective from

July 1, 2022

RULES

for working with the trading and clearing
system in remote access mode

Almaty

2022

LIST OF AMENDMENTS

1. Amendments No. 1:

- Approved by a decision of the Management Board Kazakhstan Stock Exchange JSC (minutes No. 69 dated July 14, 2023);
- Effective as of July 27, 2023.

2. Amendments No. 2:

- Approved by a decision of the Management Board Kazakhstan Stock Exchange JSC (minutes No. 147 dated December 12, 2024);
- Effective as of December 28, 2024.

These Rules determine the main terms of connection to the trading and clearing system of Kazakhstan Stock Exchange JSC (hereinafter - the Exchange) to work with it in the remote access mode.

Article 1. Main provisions

1. The terms used in these Regulations shall have the following meaning:
 - 1) **"Internet service provider"** means an organisation that provides telecommunication services for access to the Internet
 - 1-1) **"registered exchange"** (primary (main) membership exchange) – an exchange of a state other than the Republic of Kazakhstan, where the member is a participant in its electronic trading system, and recognized by the Exchange subject to the remote access agreement *(this sub-item was included by a decision of the Exchange's Management Board dated 12 December of 2024)*;
 - 2) **An "observer organisation"** is a legal entity that has the right to view the progress and results of trades in the trading and clearing system;
 - 3) **"remote access network provider"** - an organization that provides communication services to provide access to the trading and clearing system via a direct point-to-point connection and a data processing center rental service *(this sub-item was changed by a decision of the Exchange's Management Board dated 14 July of 2023)*;
 - 4) **"software terminal"** - trading and clearing system terminal software;
 - 5) **"remote access mode"** is a way of working with the trading and clearing system that does not require the physical presence of the user of the trading and clearing system (an individual authorised to perform certain actions in the trading and clearing system) on the Exchange;
 - 5-1) **"electronic trading system"** – an electronic trading system that provides its participants with remote access to the trading system of the Exchange based on a relevant agreement on remote access to the electronic trading system entered into by and between the registered exchange and the Exchange *(this sub-item was included by a decision of the Exchange's Management Board dated 12 December of 2024)*;
 - 5-2) **"remote access agreement"** – an agreement on remote access to the electronic trading system entered into by and between the Exchange and the registered exchange, which regulates the procedure for interaction between the parties in providing the remote access to participants of the electronic trading system *(this sub-item was included by a decision of the Exchange's Management Board dated 12 December of 2024)*;
 - 6) **"Participant"** is an entity entitled to operate the trading and clearing system in remote access mode;
 - 6-1) **"participant of the electronic trading system"** – a foreign member of the Exchange that is a legal entity established subject to the laws of a state other than the Republic of Kazakhstan, and a member of the exchange that registered it subject to the remote access agreement *(this sub-item was included by a decision of the Exchange's Management Board dated 12 December of 2024)*.
 - 7) **"gateway systems"** - software and hardware complex of the Exchange's trading and clearing system, through which interaction of information systems of the Participants with the trading and clearing system is carried out in the course of exchange trading;
 - 8) **Co-location** – a service consisting in the fact that the remote access network provider places the equipment of the Exchange's client on its territory in the data center, connects it to electricity, provides maintenance and

connection to high-bandwidth communication channels *(this sub-item was included by a decision of the Exchange's Management Board dated 14 July of 2023)*.

2. Other concepts used in these Rules are identical to those defined in the Rules of Exchange Activities and other internal documents of the Exchange, as well as the legislation of the Republic of Kazakhstan.
3. Connection to the trading and clearing system to operate it remotely is only permitted:
 - 1) to participants in trades conducted by the Exchange (Exchange members);
 - 2) users of the control and assurance system;
 - 3) observer organisations;
 - 4) SMA clients via DMA systems.
4. An organization from among those listed in sub-clauses 1) and 2) clause 3 of this article can work with the trading and clearing system in remote access mode, provided that it or the exchange that registered it submits an application in the form of annex 1 to these Rules. From the first business day following the day the Exchange receives the said application, this organization shall receive the status of the Participant and, provided that it complies with the minimum technical and other requirements established by clauses 4–7 article 2 of these Rules, shall connect to the trading and clearing system to work with it in remote access mode *(this item was changed by decisions of the Exchange's Management Board dated 14 July of 2023 and 12 December of 2024)*.
5. An organization willing to work with a trading and clearing system in remote access mode as an observer organization, must submit an application in the form of appendix 1 to these Rules and obtain a written permission from the Exchange to operate this organization with the trading system in remote access mode as an observer organization *(this item was changed by a decision of the Exchange's Management Board dated 14 July of 2023)*.
6. SMA clients operate the trading and clearing system remotely on the basis of agreements between them and the Exchange members serving them.
8. For the persons referred to in sub-items (1) to (3) of item 3 of this article, these Rules shall have the force of a contract of adhesion. For such a person to become a Member in accordance with items 4 and 5 of this article means that the contract as a whole shall be subject to the conditions specified in these Rules.
9. Exclusive rights to the software terminal and trading information as intellectual property belong to the Exchange; Participants are granted only the right to use them.

The Exchange shall provide Participants with the right to display (demonstrate) trading information to their clients only through DMA systems and only in volume and in composition that are necessary to close transactions on the Exchange. Distribution of the trading information by any other means and for any other purposes shall be secondary distribution of the trading information and must be carried out only subject to the internal documents of the Exchange, which determine the terms and procedure for distribution of exchange information, as well as the terms and procedure for commercial provision of information products of the Exchange *(this paragraph was changed by a decision of the Exchange's Management Board dated 12 December of 2024)*.

10. Specifics of working with the trading and clearing system in remote access mode when using software and cryptographic means of information protection shall be established by an internal document of the Exchange, which determines the procedure for using software and cryptographic means of information protection when working with the trading system in remote access mode *(this item was*

changed by a decision of the Exchange's Management Board dated 12 December of 2024).

11. Amendments and additions to these Rules may be introduced take effect not earlier than 15 days after their approval and are subject to notification (through publication on the Exchange's website) of persons working with the trading and clearing system in remote access mode immediately after approval of such changes and additions.

Article 2. Minimum technical and other requirements for connection to the trading and clearing system

1. In order to connect to the trading and clearing system in order to work with it in remote access mode the Participant (candidate Participant) shall have the following communication channels:
 - 1) the main communication channel organised through a direct connection via a remote access network provider or via the internet through an internet service provider.

Organisation of the main communication channel via a direct connection without the involvement of a remote access network provider is only permitted by the state authority responsible for the regulation and supervision of the securities market;
 - 2) a redundant communication channel organised by direct connection or via the Internet through a provider other than the one referred to in sub-item (1) of this item.

The reserve communication channel shall be used by the Participants to work with the trading and clearing system in remote access mode in case of failure of the main channel organised in accordance with sub-item 1) hereof.

2. To connect to the trading and clearing system in order to work with it in remote access mode, the IP addresses set by the Exchange are used.

The list of IP addresses and ports for connection (including IP addresses the list of IP addresses and ports (including IP addresses and ports of the automatic update services of the trading and clearing system terminals and other services) via the main and backup communication channels, as well as changes and/or additions to such list, are published on the Exchange website.
3. Connection to the trading and clearing system through a trading terminal via the Internet shall be allowed only if software and cryptographic means of information protection are used when working with it (*this item was changed by a decision of the Exchange's Management Board dated 12 December of 2024*).
4. Personal computer on which the trading terminal is installed must have a processor of at least Core i5 class, and a RAM capacity of at least 8 Gb. Operating system Microsoft® Windows® 8.1 or higher must be installed on the specified computer (*this item was changed by a decision of the Exchange's Management Board dated 12 December of 2024*).
5. In order to connect to the trading and clearing system via a direct communication channel without involving a remote access network provider, the state securities market regulator and supervisor must have:
 - 1) an active direct channel of communication to the Exchange, which shall comply with the requirements laid down in item 7 of this Article;
 - 2) operable telecommunication equipment required to connect the terminal to the trading and clearing system.

6. In order to connect to the trading and clearing system in remote access mode, the Participant (candidate Participant) must:
 - 1) conclude a contract with one of the remote access network providers or internet service providers, under which the Participant (candidate Participants) will be able to connect its terminal or information system to the trading and clearing system;
 - 2) have a functioning direct link to the provider referred to in sub-item (1) of this item, which shall comply with the requirements laid down in item 7 of this Article;
 - 3) have operable telecommunication equipment required to connect the terminal with the trading and clearing system and the characteristics of which are agreed with the provider specified in sub-item 1) hereof;
 - 4) send a letter on letterhead to the Exchange confirming that the Participant (candidate Participant) has the main and backup communication channels that meet the requirements set out in item 1 of this article.
- 6-1 In order to activate the Co-location service, the Participant (candidate for Participants) it is necessary to:
 - 1) enter into an agreement with the remote access network provider, according to which the Participant (candidate for Participant) will have the opportunity to install their equipment in the same data center where the Exchange equipment is located;
 - 2) have operational telecommunications equipment necessary to ensure connection of your computer equipment (server) with the Exchange equipment located in the data processing center;
 - 3) send an application to the Exchange to connect to the Co-location service in accordance with the form of Appendix 2 to these Rules.

(This item was included by a decision of the Exchange's Management Board dated 14 July of 2023)

- 6-2. In order to disable the Co-location service, the Participant sends an application to the Exchange in accordance with the form of Appendix 2 to these Rules *(this item was included by a decision of the Exchange's Management Board dated 14 July of 2023)*.

7. When connecting to the trading and clearing system to work with it in the remote access mode, the bandwidth of the communication channel (when connecting to the trading and clearing system via a direct connection via a remote access network provider - CIR) shall be at least 256.0 kilobits per second per one terminal of the trading and clearing system.

When connecting to the Exchange's gateway systems in remote access mode, the communication channel capacity (CIR) must be at least 15 Mb per second per gateway instance.

When connecting to the trading and clearing system or to the Exchange's gateway systems in the remote access mode using a direct communication channel to the provider, cryptographic information security tools of the trading and clearing system are not required.

8. The Exchange provides advice to Participants (candidate Participants) on how to connect to the trading and clearing system for remote access.

These consultations shall be provided free of charge, unless they require the Exchange employees to travel to provide on-site consultations. In such cases the Exchange shall be entitled to charge from Participants (candidates to Participants) a fee as reimbursement of expenses for departure of its employees.

9. Libraries of access to the Exchange's gateway systems, software terminal, as well as programs and/or instructions for its installation are provided to Participants through publication on the Exchange's website and/or the Exchange's auto-update servers.

The installation of the software terminal or the use of access libraries to the Exchange's gateway systems is carried out by the Participants themselves, with advice from Exchange staff, if necessary.

Such consultations shall be provided, as a rule, by phone or e-mail (support@kase.kz). If the Exchange employees travel to provide such advice on site, the Exchange shall be entitled to charge from Participants a fee as reimbursement of expenses for departure of its employees.

10. The Exchange is not responsible for:
- 1) for the inability to install and run the software terminal due to the Participant's failure to comply with the requirements laid down in items 4 to 6 of this article;
 - 2) for the Participant's incorrect installation of the software terminal and the consequences of such incorrect installation;
 - 3) for inability to connect the terminal to the trading and clearing system due to inoperability of communication channels and telecommunication equipment of the Participant, malfunction of the remote access network provider or Internet provider, lack of network level access by the Participant to the IP addresses, the list of which is provided to Participants by the Exchange in accordance with item 2 of this article;
 - 4) for delays in the operation of the trading and clearing system terminal due to the Participant's failure to comply with the requirements set out in items 4-7 of this Article.
11. The number of trading and clearing system terminals of one Participant shall not be limited provided that its communication channel(s) and the performance of its telecommunication equipment are sufficient, as well as that the Exchange has sufficient capacity of its communication channel(s).

The Participant may use different ways of connecting to the trading system in respect of different terminals.

Article 3. Special conditions

1. In case of modification or development of a new generation of the software terminal, the Exchange shall transfer it to the Participants in the manner prescribed by Article 2, item 9 hereof.
2. Participants are prohibited from:
 - 1) decompile and disassemble the software terminal;
 - 2) Pass on the software terminal in any way or form to third parties;
 - 3) violate the restrictions imposed by Article 1(9) of these Regulations in relation to the distribution of trade information.
3. The Exchange shall be entitled to suspend the Trading and Clearing System of the Participant if the Participant violates the condition stipulated in sub-item 2) of item 1 of Article 2 hereof.
4. Resumption of the Participant's work with the trading and clearing system shall be made by the Exchange (with subsequent written notification of this Participant thereof) after such Participant has eliminated violations of the requirements set forth in item 2 of this article.
5. In case of detection of abnormal network activity (multiple connection requests, DOS attack, etc.) from the Participant's IP address, the Exchange reserves the

right to take all necessary actions to eliminate this activity up to complete blocking of this IP address until the circumstances that led to this situation are clarified.

The Exchange shall give that Participant a written notice of the blocking of his IP address within three working days of the date on which the Participant's IP address was blocked.

6. The Exchange may suspend the Participant from operation of the trading and clearing system (with subsequent written notification of this Participant) if the violation by this Participant of any of the prohibitions set forth in item 2 of this article creates, in the Exchange's opinion, a significant threat to the operability of the trading and clearing system or the Exchange's exclusive rights to the software terminal and trading information as intellectual property objects.
7. The procedure for settling situations in case of failures (failures, errors or delays) in the operation of the trading and clearing system and terminals is set out in the Rules for resolving issues in case of technical failures in the operation of the software and hardware complex of the Exchange.

Article 4. Exchange fees for services related to the operation of the trading and clearing system in remote access mode

1. Participants shall pay the Exchange fees for provision of services related to work with the trading and clearing system in remote access mode, subject to an internal document of the Exchange, which determines the composition and amounts (rates) of membership fees, exchange and clearing fees, and commission for recording collateral, payable by Participants *(this item was changed by a decision of the Exchange's Management Board dated 12 December of 2024)*.
2. Participant shall have the right to temporarily or permanently refuse to work with the trading and clearing system in remote access mode with a proportionate exemption of this Participant from paying the fees of the Exchange for provision of services by the Exchange for provision remote access to the trading and clearing system, provided that the Exchange receives a written notice from this Participant or the exchange that registered it of such refusal before start of the month in which this Participant wishes to suspend (terminate) work with the trading and clearing system in remote access mode *(this item was changed by a decision of the Exchange's Management Board dated 12 December of 2024)*.
3. The Participant shall be exempt from payment of fees of the Exchange for provision by the Exchange of remote access to the trading and clearing system, starting from the month of suspension (termination) of with the trading and clearing system in the remote access mode.

Article 5. Final provisions

1. These Rules shall be published on the Exchange website.
2. It shall be the responsibility of the tendering unit and information technology unit to ensure that these Rules are amended and/or updated in a timely manner.
3. These Rules shall be updated as necessary. These Rules shall be revised given the need for update at least once every 36 months to be counted from the date these Rules take effect, and in case of their update – from the date the latest amendments/additions take effect *(this item was changed by a decision of the Exchange's Management Board dated 12 December of 2024)*.

Chairperson of the Board

A. Aldambergen

Appendix 1

to the Rules for the operation of the trading and clearing system in remote access mode (*this element was changed by a decision of the Exchange's Management Board dated 14 July of 2023*)

[letterhead]

Kazakhstan Stock Exchange JSC

APPLICATION

We hereby express our intention to operate your trading and clearing system in remote access mode as [specify]:

- ☐ Trading participant
- ☐ the user of the control and assurance system
- ☐ an observer organisation with a connection to it [tick]
- ☐ over a direct connection without the involvement of a remote access network provider (only for the state securities market regulator and supervisor)
- ☐ over a direct connection via a remote access network provider
- ☐ via the internet through an internet service provider

We would like to use [insert number] of trading and clearing system terminal/s to be located at [specify]: [specify].

We declare that we have read the Rules of the remote access trading and clearing system, agree with them and undertake to comply with their terms. This obligation also includes the obligation to comply with subsequent changes and amendments to the Rules, provided that such changes and amendments have been notified to us in accordance with Article 1(11) of the Rules.

We accept liability for breach of the obligations contained in this statement. This responsibility also includes liability for the acts (or omissions) of our employees and clients (clients' employees) working on our behalf with your trading and clearing system in remote access mode in violation (non-compliance) with the rules of these Rules and for the consequences of such acts (such omissions).

[position]

[signature]

[surname, initials]¹

[position]

[signature]

[surname, initials]²

¹ The title, signature, surname and initials of the person authorised to give the first signature on behalf of the Participant (candidate Participant).

² The title, signature, surname and initials of the person entitled to give a second signature on behalf of the Participant (candidate Participant).

Appendix 2

to the Rules for operating the trading and clearing system in remote access mode

(This appendix was included by a decision of the Exchange's Management Board dated 14 July of 2023)

[letterhead]

Kazakhstan Stock Exchange JSC

REQUEST

[Specify a name of the Participant (candidate for participants)] hereby expresses his intention to connect/ disconnect [specify the applicable] Co-location services:

No.	Service	Note about selection of service	Number of services to be connected	Number of services to be disconnected	Market	
1	Connection of software to backup data processing center of the Exchange	1U <input type="checkbox"/>	0	0	Stock	<input type="checkbox"/>
					Currency	<input type="checkbox"/>
					Derivatives	<input type="checkbox"/>
2	Increase in carrying capacity up to 1 Gb/s	<input type="checkbox"/>				

We declare that we have read the Rules for operating the trading and clearing system in remote access mode, agree with them and undertake to comply with their terms and conditions. Our obligation also includes the obligation to comply with the terms and conditions of subsequent amendments and additions to these Rules, provided that such changes and additions have been brought to our attention in accordance with item 11 of article 1 of these Rules.

We accept responsibility for violation of the obligations contained in this request. This responsibility also includes responsibility for actions (inaction) of our employees and clients (client employees) operating on our behalf your trading and clearing system in remote access mode in violation of (non-compliance with) the provisions of these Rules and for consequences of such actions (such inaction).

[position]

[signature]

[surname, initials]³

[position]

[signature]

[surname, initials]⁴

³ Position, signature, surname and initials of a person with a primary authority to sign on behalf of the Participant (candidate to the Participants).

⁴ Position, signature, surname and initials of a person with a primary authority to sign on behalf of the Participant (candidate to the Participants).