

## Functions of the ASTS Bridge broker interface related to the “Basket REPO with the Central Bank of Russia and Collateral management by NSD” project

In order to fully support this new trading mode client system should support two protocols:

1. Standard ASTS Bridge broker interface to the Moscow Exchange equity market. This interface is used for order entry/cancellation and trade capture. Supported in all versions of broker interfaces starting from IFCBroker\_22.
2. Special National Settlement Depository (NSD) Web service should be used for other operations: mark securities, replace collateral, clearing results, prolongation of the second part of a trade, results of securities selection into collateral, margin call settlement.

This document only describes functions of the ASTS Bridge interface.

New instrument types in the trading and clearing system (enumeration type **TSecType**):

- G – collateral basket;
- H – additional list ID.

During the REPO order entry an instrument having type G should be indicated (transaction field **SECCODE**). An additional ID could be indicated in the **LSECCODE** field that points to a particular security or list of securities. Specification of this additional ID is optional. If not given then the NSD algorithm will be used to select particular securities for the collateral. If given then the first priority will be given to that list during the security selection process by the NSD.

Order entry generates one new order in the Trading System.

Basket REPO trade is concluded in the same manner as traditional REPO trades. Trade type (enumeration type **TTradeType**) will be **M** for the first trade part and **m** for the second part.

The **BKT\_REPO\_NEGDEAL** transaction is used to enter basket REPO orders

Transaction format:

Input field	Description	Type	Size	Remarks
ACCOUNT	Trading account	CHAR	12	Trading account number
BUYSELL	Direction	TBuySell	1	Order direction - "Buy / Sell" (only S is valid for this mode)
SECBOARD	Board	CHAR	4	Board ID for the security
SECCODE	Security	CHAR	12	Security ID (instrument of type G)
CPFIRMID	Counterparty	CHAR	12	Counterparty Firm ID (only Central Bank is valid for this mode)
BROKERREF	Broker reference	CHAR	20	Additional information entered by the trading firm (usually client instruction number)
MATCHREF	Matching reference	CHAR	10	Identical text value entered by both trade parties

SETTLECODE	Settlement code	CHAR	12	Settlement code for the trade
EXTREF	External user ID	CHAR	12	A reference field which may be used as a back-feed by an external system. May contain, for example, a user ID of the external system user who entered the original order into that external system.
REPORATE	REPO rate	PRICE	9	REPO rate, expressed in %
REPOORDERVALUE	Repo value	NUMERIC	16.2	Repo value in rubles
REPOTERM	REPO term	INTEGER	4	REPO term expressed in calendar days. The term starts on the next day after the first REPO leg settlement and ends on the day of the second REPO leg settlement inclusive.
ACCEPTEDORDERNO	ID of a negdeal order to accept	INTEGER	12	Accepted counterparty's negdeal number (if an order is send in reply to negdeal order) or white spaces
CLIENTCODE	Client code	CHAR	12	Client code assigned by the broker
LSECCODE	Preferred collateral or basket subset	CHAR	12	ID of an additional list or a particular security

The general procedures of order handling and trade conclusion is the same as for traditional REPO orders and trades.

A special technical trading account is used for Basket REPO orders and trades in the Trading and Clearing System - **REPONSD0000**. The actual trade settlement will be performed from the depo and bank trading accounts in NSD. Some of the fields in the NEGDEALS and ORDERS tables do not have meaning in this project – QUANTITY, VALUE, STARTDISCOUNT, etc.

Only the trading commission fee and the technical access fee are calculated in the Trading and Clearing System. The clearing commission fee is not calculated. The trading commission fee is shown for the reference purposes only. It is withheld during the settlement and does not decrease the planned cash positions.