



Block Trading Solutions

October 2023



BLOCK TRADING SOLUTIONS

Midpoint Order Book

- Limit order that will always be executed at the central book's midpoint price.

Request for Quote (RFQ)

- Functionality to request quotes that allows more efficiency to the price formation of large size lots.
- Automatic matching
- Orders may trade with premium or discount on the price of the central limit order book

Book of Block Trade (BBT)

- Separate book for continuous block trading lots. Orders may trade with premium or discount on the price of the central limit order book

Rules for all solutions

- Trading in **multiples of the minimum size** disclosed by CVM (available [here](#))
 - **Daily calculation** of the minimum size in terms of **number of shares** based on the closing price of the previous day
 - It will be available in an existing tag in **Market Data** (1231 – MinLotSize)
- **New instrument symbol**
- **Orders will not be published** on Market Data, **only trades** and with immediate disclosure
- **No interaction with the central limit order book**
- Initially, the solutions will be available to **stocks**; later, for **BDRs and Units**

Execution Criteria

All three solutions will have Price-time Priority as the execution criteria.

IMPORTANT: The solutions are subject to prior approval by CVM.

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MIDPOINT ORDER BOOK

Hidden limit order with a price determined by the **average of the best bid and best sell offer in the central limit order book**, **limited by a price** defined by the participant, with a **minimum quantity size**. This type of order only interacts with orders of the same type.

General Rules

- Midpoint is a new type of order integrated to the PUMA Trading System, but does not interact with the central limit order book
- Orders will not be disclosed on Market Data, only trades and with immediate disclosure
- The indication of available or unavailable orders for a particular instrument is published on the Market Data news channel
- Orders and Trades will be available on Drop Copy
- Negotiations on Midpoint will occur in a new instrument symbol, ending with "M" (ex. XXXXXM)
- If the Midpoint price exceeds two decimal places, the execution will be divided equally into prices rounded up and rounded down
- If the limit price is set out of the Midpoint market price, there will be no execution
- Midpoint will not be available during auctions or in case of no spread of the underlying instrument in the central limit order book
- Midpoint allows partial execution, respecting the multiple of the minimum block size. It is not possible to specify a minimum quantity for execution
- The matching will occur following the Price-time Priority execution criteria (1st Price > 2nd Time)

Examples of how Midpoint works (1/2)

1 MIDPOINT Book – Registration of orders

Clients send Midpoint orders for **XXXXM**, with a limit price and a quantity in multiples of the minimum instrument size

Hidden Midpoint Book

BUY				SELL			
CC	Qty	Price Limit	Bid	Ask	Price Limit	Qty	CV
B	300k	21,00	Midpoint	Midpoint	19,89	100K	A
				Midpoint	19,91	200K	B

2 Message on MD News

Message indicating active order for **XXXXM** is published on the Market Data news channel

"[XXXXM] Midpoint order available on the order book"

The message will only be disclosed on the news when there is an active Midpoint order for a particular instrument, or none

3 Central Book – Average Price Calculation

Midpoint verifies the average bid/ask price of instrument **XXXX** on the central limit order book

Central Book

Bid	Ask
20,02	20,04

Average Price (Midpoint):
20,03

4 Trade Execution and Post – Trade Transparency

Since the limit price is within Midpoint price, the following trades are executed following **Price-time Priority**:

Negócios - Midpoint

CC	CV	Qty	Price
B	A	100k	20,03
B	B	200k	20,03

Post-trade Transparency
Trades are disclosed shortly after execution

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* The limit price is not considered to order the book

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Examples of how Midpoint works (2/2)

1 MIDPOINT Book – Registration of orders

Clients send Midpoint orders for **XXXXM**, with a limit price and a quantity in multiples of the minimum instrument size

2 Message on MD News

Message indicating active order for **XXXXM** is published on the Market Data news channel

3 Central Book – Average Price Calculation

Midpoint verifies the average bid/ask price of instrument **XXXX** on the central limit order book

4 Trade Execution and Post – Trade Transparency

Since the Midpoint price exceeds **two decimal places**, 2 trades will be generated:

Hidden Midpoint Book

BUY				SELL			
CC	Qty	Price Limit	Bid	Ask	Price Limit	Qty	CV
B	400k	27,44	Midpoint	Midpoint	27,39	400K	C

"[XXXXM] Midpoint order available on the order book"

The message will only be disclosed on the news when there is an active Midpoint order for a particular instrument, or none

Central Book

Bid	Ask
27,42	27,45

Average Price (Midpoint):
27,435

Negócios - Midpoint

CC	CV	Qty	Price
B	C	200k	27,43
B	C	200k	27,44

Post-trade Transparency
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BLOCK TRADING SOLUTIONS

Midpoint Order Book

- Limit order that will always be executed at the central book's midpoint price.

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Book of Block Trade (BBT)

- **Separate book for continuous block trading lots. Orders may trade with premium or discount on the price of the central limit order book**

Rules for all solutions

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Execution Criteria

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Solution that allows **request for quotes to buy or sell** a chosen security, aiming to provide more **efficiency to the price discovery process.**

Request

1



Requester 1

Requester submits a request for quote to the market

Filled information::

[creation of a request for quote]

Side: Buy

Security: XXXX3R

Total quantity: 1MM

Minimum quantity: 100k¹

Price limit: 60,00

Broker: A

Quote Duration: 00:03:00

RFQ will have a minimum accepted quantity size

Negotiations on RFQ will occur in a new instrument symbol, ending with "R" (Ex. XXXXR)

¹The client can define the minimum size to execute a trade as long as it complies to the minimum block trade size

Notification

2



A notification about the request for quote is sent to the market

Only the information below will be displayed in the Market Data news channel:

Security	Quote Duration
XXXX3R	00:03:00

Information about the security and quote duration will be disclosed, further information will only be disclosed if authorized by the requester

There is a time limit to respond the request

Quotes

3



Responders 2, 3 and 4

Responders send quotes within time.

BUY			
Responder	CC	Qty	Pre
2	A	200k	59,80
3	B	100k	57,95
4	A	100k	57,90

SELL			
Responder	CV	Qty	Pre
2	B	700k	59,60
3	A	300k	59,60

Requesters and responders will not access the quotes

Request and responses can be modified and canceled before quote duration expires

Orders may trade with premium or discount, respecting specific tunnels

Matching

4



Automatic Matching

The following deals were generated:

CC	CV	Qty	Pre
A	B	700k	59,60

CC	CV	Qty	Pre
A	A	300k	59,60

The matching will occur following the Price-time Priority criteria.

The benefit of the price is given to the requester

Confirmation

5



Confirmation of Transaction Registration in the PUMA Trading System

Post Transparency

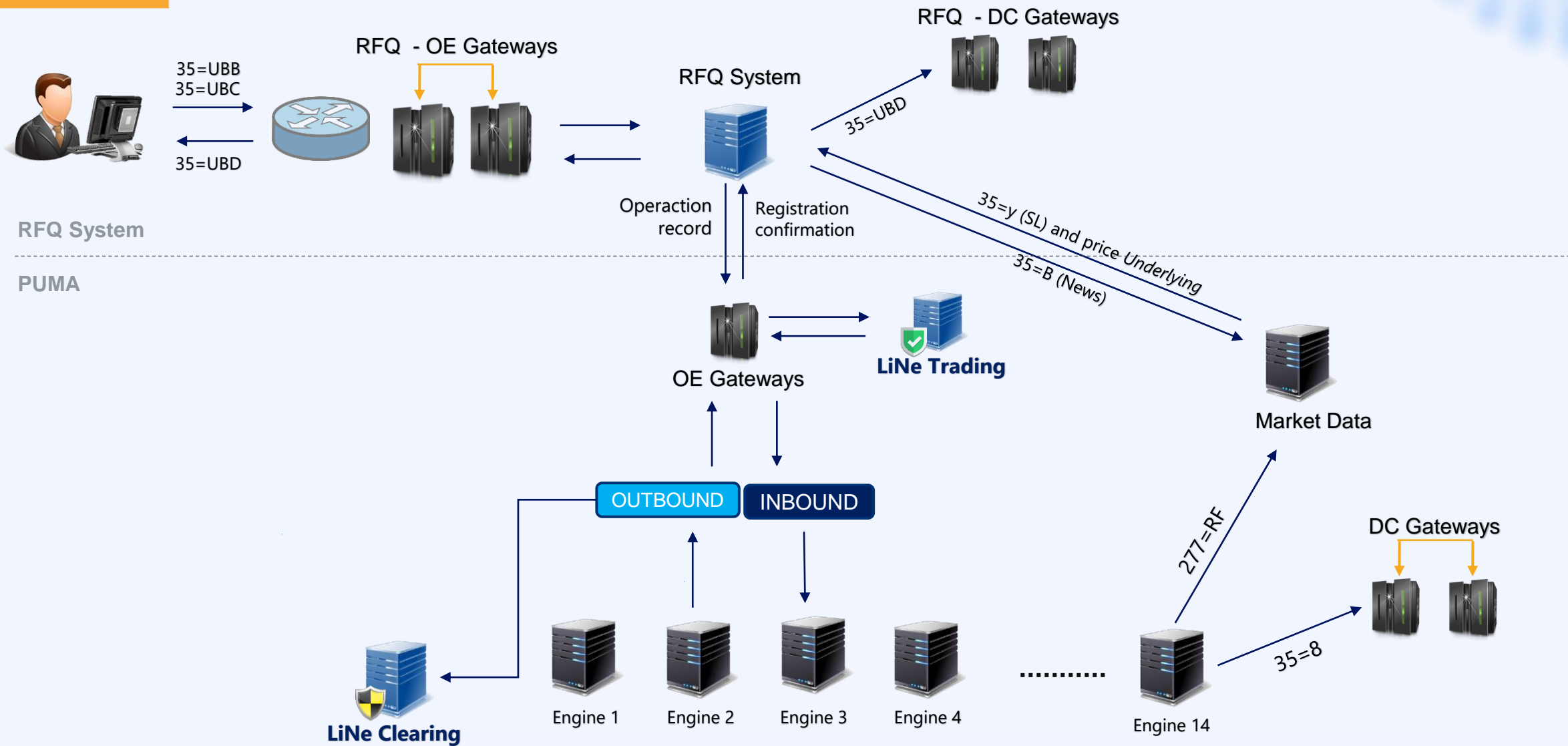
6



Post-trade Transparency (immediately after matching)

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ARCHETECTURE - Overview



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Book of Block Trade (BBT)

Specific book for continuous block trading. It will be allowed a **premium or discount for the trades, in relation to the central book.**

General Rules

- Solution integrated to the PUMA Trading System, but does not interact with the central limit order book
- Trading through existing offers (Limit, FAK (Fill and Kill) and FOK (Fill or Kill))
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- The indication of available or unavailable orders for a particular instrument is published on the Market Data news channel
- Orders and Trades will be available on Drop Copy
- Prices can have a premium or discount, respecting specific tunnels that use the price of the last trade in the central book as a reference
- Negotiations on BBT will occur in a new instrument symbol, ending with "Q" (ex. XXXXXQ)
- BBT allows partial execution, respecting the multiple of the minimum block size. It is not possible to specify a minimum quantity for execution
- The matching will occur following the Price-time Priority execution criteria (1st Price > 2nd Time)

Examples of how BBT works (1/2)

1 BBT Book – Registration of orders

Clients send orders for **XXXXQ** in the BBT book, in a quantity that is multiple of the minimum instrument size

2 Message on MD News

Message indicating active order for **XXXXQ** is published on the Market Data News channel

3 Trade Execution and Post – Trade Transparency

Trades are executed following the **Price-time Priority** and disclosed on the Market Data

Hidden book - BBT

CC	Purchase Time	Price	Qty Purchase	Qty Sale	Price	Sale Time	CV
A	10:01:00	R\$ 18,28	200.000	100.000	R\$ 18,28	10:00:00	B
B	10:02:05	R\$ 18,25	200.000	100.000	R\$ 18,28	10:01:02	A

"[XXXXQ] BBT order available on the order book"

The message will only be disclosed on the news when there is an active order for a particular instrument on the book of BBT, or none



Business Book of Block Trade			
CC	CV	Price	Qty
A	B	R\$ 18,28	100.000
A	A	R\$ 18,28	100.000



Post-trade Transparency
Trades disclosed shortly after execution

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- Orders and Trades will be available on Drop Copy
- Prices can have a premium or discount, respecting specific tunnels that use the price of the last trade in the central book as a reference
- Negotiations on BBT will occur in a new instrument symbol, ending with "Q" (ex. XXXXXQ)
- BBT allows partial execution, respecting the multiple of the minimum block size. It is not possible to specify a minimum quantity for execution
- The matching will occur following the Price-time Priority execution criteria (1st Price > 2nd Time)

Examples of how BBT works (2/2)

1 BBT Book – Registration of orders

Clients send orders for **XXXXQ** in the BBT book, in a quantity that is multiple of the minimum instrument size

2 Message on MD News

Message indicating active order for **XXXXQ** is published on the Market Data News channel

3 Trade Execution and Post – Trade Transparency

Trades are executed at the passive order price, following **Price-time Priority**, and disclosed on Market Data

Hidden book - BBT

CC	Purchase Time	Price	Qty Purchase	Qty Sale	Price	Sale Time	CV
A	15:05:00	R\$ 15,25	100.000	100.000	R\$ 15,00	15:03:00	B
				100.000	R\$ 15,03	15:05:00	A

"[XXXXQ] BBT order available on the order book"

The message will only be disclosed on the news when there is an active order for a particular instrument on the book of BBT, or none

Business Book of Block Trade			
CC	CV	Price	Qty
A	B	R\$ 15,00	100.000



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BLOCK TRADING SOLUTIONS | Summary of features (1/2)

Characteristics	Midpoint Order Book	Request for Quote (RFQ)	Book of Block Trade (BBT)
Instrument	Suffix "M" (ex. XXXXXM), with the same ISIN as the underlying asset. It will be published on BVBG.028.	Suffix "R" (ex. XXXXR), with the same ISIN as the underlying asset. It will be published on BVBG.028.	Suffix "Q" (ex. XXXXQ), with the same ISIN as the underlying asset. It will be published on BVBG.028.
Order type	Midpoint Limit Order	RFQ's request and response	Orders Limit, FAK and FOK
Connection	PUMA	RFQ System – (requires new OE session)	PUMA
Price of the trade	Midpoint of the central order book ➤ If the Midpoint exceeds two decimal places, the execution will be divided equally between prices rounded up and down	Prices can have premium/discount in relation to the central book, respecting specific tunnels based on the price of the central book as a reference	Prices can have premium/discount in relation to the central book, respecting specific tunnels based on the price of the central book as a reference
Pre trade	Hidden book: orders are not disclosed ➤ Indication of active order for the instrument is disclosed via News (35=B) on Market Data	Hidden book: orders are not disclosed ➤ Quote disclosed via News (35=B) on Market Data, by default with instrument and time request	Hidden book: orders are not disclosed ➤ Indication of active order for the instrument is disclosed via News (35=B) on Market Data
Post trade	Immediate disclosure of the trade on Market Data , with a separate ticker	Immediate disclosure of the trade on Market Data , with a separate ticker	Immediate disclosure of the trade on Market Data , with a separate ticker
Matching criteria	Price-time Priority	Price-time Priority	Price-time Priority
Drop Copy	Orders and Trades	Only trades	Orders and Trades
Instrument state	Respects the states of the underlying asset	Respects the states of block trading specific instrument	Respects the states of block trading specific instrument

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BLOCK TRADING SOLUTIONS | Summary of features (2/2)

Characteristics	Midpoint Order Book	Request for Quote (RFQ)	Book of Block Trade (BBT)
Indexes	Instruments are not part of indexes and block trading volumes will not affect the tradability ratio	Instruments are not part of indexes and block trading volumes will not affect the tradability ratio	Instruments are not part of indexes and block trading volumes will not affect the tradability ratio
Price statistics	Specific for block trading instruments ➤ Prices of the day will be published on BVBG.086 for the block instrument, but the closing price will be a replication of the closing price of the underlying asset	Specific for block trading instruments ➤ Prices of the day will be published on BVBG.086 for the block instrument, but the closing price will be a replication of the closing price of the underlying asset	Specific for block trading instruments ➤ Prices of the day will be published on BVBG.086 for the block instrument, but the closing price will be a replication of the closing price of the underlying asset
Volume statistics	Specific for block trading instruments ➤ Block trading volumes will not affect the volume of the underlying asset	Specific for block trading instruments ➤ Block trading volumes will not affect the volume of the underlying asset	Specific for block trading instruments ➤ Block trading volumes will not affect the volume of the underlying asset
Certification	Requires certification with B3	Requires certification with B3	Does not require certification with B3

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BLOCK TRADING SOLUTIONS | Technical details

New Fields, Domains and Messages for Block Trading Solutions

Message/File	Field	Midpoint Order Book	Request for Quote (RFQ)	Book of Block Trade (BBT)
Execution Report (35=8)	1094 (PegPriceType) <small>[new field]</small>	2 (MidPricePeg)	n/a	n/a
	40 (OrdType)	'P' (Pegged)	n/a	n/a
	1115 (OrderCategory)	'E' (Result of Midpoint)	n/a	'F' (Result of BBT (Book of Block Trade))
	35551 (ExternalRFQIndicator) <small>[new field]</small>	n/a	'Y' or 'N'	n/a
Market Data - Incremental (35=X)	277 (TradeCondition)	'MP' (Midpoint Trade)	'RF' (RFQ)	'PT'
Market Data - Security List (35=y)	762 (SecuritySubtype)	1022 – Midpoint	1024 - Request for Quote (RFQ)	1023 - Block Book Trade (BBT)
Market Data - Security List (35=y)	1093 (LotType)	3 - Block Lot	3 - Block Lot	3 - Block Lot
BVBG.028	Market	21 (BLOCK LOT)	21 (BLOCK LOT)	21 (BLOCK LOT)
Quotation Request (35=UBB) <small>[new message]</small>	See RFQ System dictionary here (section: attachments)	n/a	See RFQ System dictionary here (section: attachments)	n/a
Response to requests (35=UBC) <small>[new message]</small>				
Systemic response to UBB and UBC message (similar to Execution Report) (35=UBD) <small>[new message]</small>				

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[B]³

Thanks!

