

part of eex group



BLOCK ORDERS

29.10.2018
Paris

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1. Introduction

In ETS, in addition to the Linked Block Orders and Exclusive Group Block Orders, two new types of block orders are available as of 27 November 2018: Loop Block Orders and Curtailable Block Orders.

The purposes of this document is to describe different types of block order such as Linked Block Orders, Exclusive Block Orders, Loop Block Orders and Curtailable Block Orders available in ETS, indicate how they can be submitted in ETS and see their execution status in the several reports.

2. Block order description

2.1 Linked block orders

2.1.1 Definition

A linked block orders family is a set of block orders which have together a linked execution constraint.

A child block order has the execution constraints of a simple block order, and can be executed only if the parent block order it is linked to, is executed. A child block order has block type C02.

A block order is a parent block order if the execution of a child block order directly depends on its own execution. A parent block order can be a root of a linked block orders family or a child block order.

The parent block order can be accepted although it is out of the money if globally the linked block orders family is in the money. A child block order with no linked child block order cannot be accepted if it is out of the money.

A block order is a root of a linked block orders family if its execution is not linked to the execution of a parent block order and if it is the parent of at least one child block order. The root block order has block type C01.

The number of generations within a linked block orders family is determined by the longest sequence of child-parent links to reach a root block order within the linked block order family.

The size of a linked block orders family corresponds to the number of block orders which are grouped in the linked block orders family.

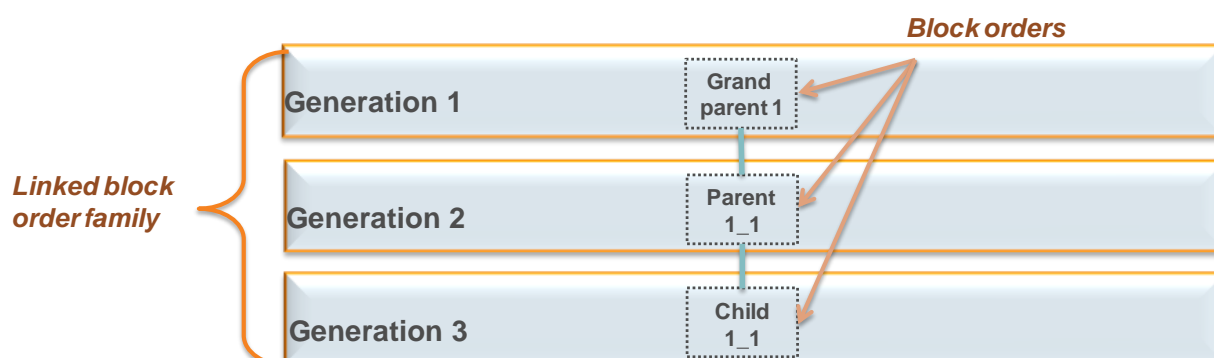
Linked block orders are available in Smart and Big Blocks (SAB) portfolios only.

2.1.2 Settings

For each market area and portfolio, following settings are defined for linked blocks families:

- Maximum number of generations of a linked block order family: 7
- Maximum number of children for a parent block order: 6
- Maximum number of parents for a child block order: 1
- Maximum size of a linked block order family: 7
- Maximum number of Linked Blocks (C01 + at least 1 C02) + Loop Blocks (C88) combination in a family for a (portfolio, market area): 5

2.1.3 Example



In this example:

- The linked block family is made of three generations
- The linked block family has a size of three block orders

2.2 Exclusive group block orders

2.2.1 Definition

An exclusive group of block orders is a set of block orders for which the algorithm may accept any combination of them as long as the sum of Actual Acceptance Ratios (ratio of accepted volume to total block volume) of the exclusive group block orders is less than or equal to 1.

In case the exclusive group is made only of all-or-none block orders, then a maximum of one block order can be executed within the exclusive group.

An exclusive block order is a block order which is part of an exclusive group. Such a block order has to fulfill the execution constraints of a simple block order. The exclusive block order has block type C04.

The size of an exclusive group corresponds to the number of block orders which are gathered in the exclusive group.

The combination of accepted block orders within the exclusive group is the one which maximizes total welfare.

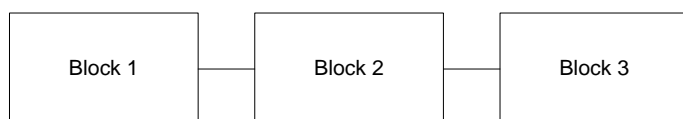
Exclusive group block orders are available in Smart and Big Blocks (SAB) portfolios only

2.2.2 Settings

For each market area and portfolio, following settings are defined:

- Maximum number of blocks in an exclusive group: 24
- Maximum number of exclusive groups for a (portfolio, market area) combination: 5

2.2.3 Example



Let's assume that Block 1, Block 2 and Block 3 are grouped in the same exclusive group, this exclusive group has a size of three block orders.

2.3 Loop block orders

2.3.1 Definition

A loop block order (block type C88) is a block order which is part of a loop family and where there is no parent-child relation between the loop block orders. In such group either all block orders included in the loop family are executed or all block orders included in the loop family are rejected.

Loop block orders are available in Smart and Big Blocks (SAB) portfolios only

2.3.2 Settings

For each market area and portfolio, following settings are defined:

- Maximum number of loop block orders per loop family: 2
- Maximum number of loop families (per portfolio, and market area): 3. Total aggregated net volume per period per family shall not exceed: 800 MW for Austria, France, Germany/Luxembourg, and Great Britain, 500 MW for Belgium and the Netherlands, and 300 MW for Switzerland
- Maximum number of Linked Blocks (C01 + at least 1 C02) + Loop Blocks (C88) combination in a family for a (portfolio, market area): 5

2.3.3 Example



Let's assume that Block 1 and Block 2 are grouped in a single loop family. The loop family has a size of 2 block orders.

2.4 Curtailable block orders

2.4.1 Definition

Curtailable block orders provide the opportunity to the trading participants to submit block orders for which the execution can be total or greater than a specified Minimum Acceptance Ratio (MAR). By relaxing the execution constraint for a block order, it is more likely that a block order will be executed.

Every block order type (C01, C02, C04, and C88) can be a curtailable block. There is no new block order type code for curtailable block order. The Minimum Acceptance Ratio (MAR) value defines whether the block order is curtailable or not. Minimum Acceptance Ratio is a user defined value.

The MAR is the minimum executed fraction of the block order if the block order is accepted. MAR is defined for each block order (C01, C02, C04, C88). Each period of the block has the same MAR value. Per default, the value of MAR is 1, i.e. all or none.

The Actual Acceptance Ratio (AAR) is the executed fraction of the block order returned by the matching algorithm. Each period of the block has the same AAR value.

MAR may have two digits after the decimal point. For instance: 0.23, 0.78, 0.95, etc. AAR has five digits after the decimal point, for instance: 0.83966, 0.56723, etc.

Within a linked family, a child block order has an AAR value that is lower or equal to the AAR of its parent.

The loop block orders included in the same loop family have the same AAR value.

2.4.2 Settings

For each market, following settings are defined:

- Default value for MAR: 1.00 (i.e. "ALL" or "NONE")

Note: This is the per Default value that will be displayed in the ETS Block Order Submission screen for every block in a block order.

2.4.3 Example

Hour	H1	H2	H3	H4
Volume	50MW	50MW	50MW	50MW
MAR	0.8	0.8	0.8	0.8

Limit Price of the Block = 200 EURO

In the above example, the trader allows the block order to be curtailed down to 40MW (80%) and still be accepted. This will apply for all hours. The same MAR value of 0.8 is applicable for each hour of the block.

3. Block orders submission in ETS

3.1 ETS Client

3.1.1 Principles for block order submission

For each block order, a block code is defined:

- C01: simple block
- C02: linked block order
- C04: exclusive group block
- C88: loop block order

The root block of a linked block family must contain following information:

- Block code = C01
- ID: this is an arbitrary ID set by the user to designate the block order
- Price
- Quantity for the corresponding hours of the block order

A linked block order must contain following information:

- Block code = C02
- ID: this is an arbitrary ID set by the user to designate the block order
- BlockCodePRM: this field is used to set the parent of the linked block orders; a parent block order is defined by the arbitrary ID set by the user. Price
- Quantity for the corresponding hours of the block order

An exclusive group block order must contain following information:

- Block code = C04
- ID: this field does not have to be filled
- BlockCodePRM: this field is used to define the exclusive group; an arbitrary group ID has to be set by the user.
- Price
- Quantity for the corresponding hours of the block order

A loop block order must contain following information:

- Block code = C88
- ID: this field does not have to be filled
- BlockCodePRM: this field is used to define the loop family; an arbitrary group ID has to be set by the user
- Price
- Quantity for the corresponding hours of the block order

Any block order type (C01, C02, C04, and C88) can be a Curtailable Block. The curtailable block must contain following additional information:

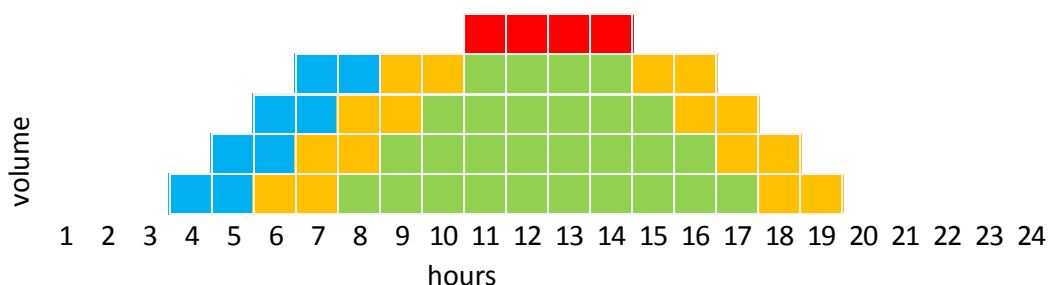
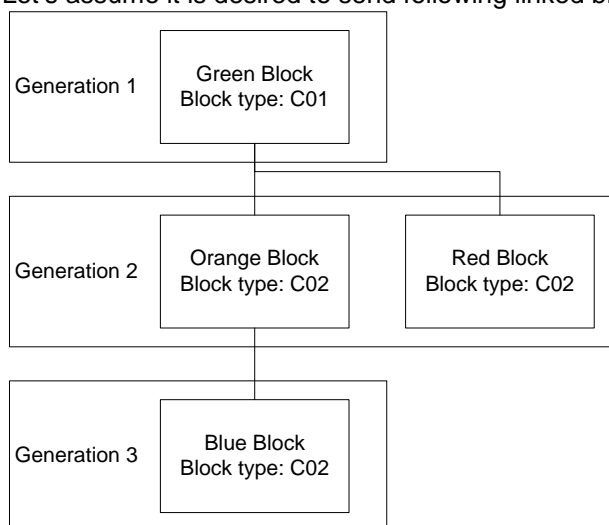
- **MAR:** this field allows the trader to define how much a block can be curtailable by entering a user defined value. By default in ETS client value is 1 which means the block will be either fully accepted or fully rejected.

3.1.2 Example for linked block order family

The example presented in this part is for illustration purpose, and it does not necessarily reflect the settings currently applied on EPEX SPOT markets.

Please note that the currently applied parameters are defined in the EPEX SPOT Operational rules and may evolve in the future.

Let's assume it is desired to send following linked block family:



Corresponding information has to be entered in ETS (either type in or copy/paste):

Root of the linked family is a normal block (C01)

Arbitrary block ID is set by the user

Block Code	ID	BlockCodePRM	MAR	Comment	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
C01	1			1 green block	60	140								5	10	15	20	20	20	20	15	10	5							
C02	2		1	1 orange block	50	80						5	10	10	10	5					5	10	10	10	5					
C02	3		1	1 red block	45	20											5	5	5	5										
C02	4		2	1 blue block	40	40			5	10	10	10	5																	

Linked block has a C02 block code

Block 4 is linked to Block 2

Root of the linked family is a normal block (C01)

Arbitrary block ID is set by the user

Linked block has a C02 block code

Block 4 is linked to Block 2

Once the block orders have been inserted, the block IDs are adapted to ETS ID:

After order submission, block IDs are adapted to ETS ID

To modify a linked family click on 'Edit Groups'

To delete a linked family click on 'Delete Groups'

Block bid submission

Once the results are published, the execution status of the block orders can be viewed in ETS client block view screen:

Market Results - My view (EpeX Trading System)

FileViewFormatSettingsWindowHelp

OverallBlockComplex

Day Type

Auction Day

From Date

14/11/2018

Area Set

CH

Auction Name

PWR-CH-D+1

Market Area

CH

Duration

60 min

Participant

TEST

Portfolio

TEST-T01

Side

All

Status

All

Export To Excel

Volume Display

Executed

Block Id	MAR	AAR	Block Code	BlockCodePRM	Area	Participant	Portfolio	Comment	Status	Paradoxically	Currency	av MCP	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
8387596	1.00	0.00000	C02	8387594	CH-SGD	TEST	TEST-T01	red block	Rejected	No	EUR	10.00	45.00	0.0																			
8387597	1.00	0.00000	C02	8387595	CH-SGD	TEST	TEST-T01	blue block	Rejected	No	EUR	10.00	40.00	0.0																			
8387594	1.00	0.00000	C01		CH-SGD	TEST	TEST-T01	green block	Rejected	No	EUR	10.00	60.00	0.0																			
8387595	1.00	0.00000	C02	8387594	CH-SGD	TEST	TEST-T01	orange block	Rejected	No	EUR	10.00	50.00	0.0																			

In the csv market result file which can be downloaded from ETS client, the execution status for linked block orders is displayed as following:

Block Id	MAR	AAR	Block Code	BlockCodePRM	Area	Participant	Portfolio	Comment	Status	Paradoxically	Currency	av MCP	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8387594	1	0	C01		CH-SGD	TEST	TEST-T01	green block	Rejected	No	EUR	10	60	0																							
8387595	1	0	C02	8387594	CH-SGD	TEST	TEST-T01	orange block	Rejected	No	EUR	10	50	0																							
8387596	1	0	C02	8387594	CH-SGD	TEST	TEST-T01	red block	Rejected	No	EUR	10	45	0																							
8387597	1	0	C02	8387595	CH-SGD	TEST	TEST-T01	blue block	Rejected	No	EUR	10	40	0																							

3.1.3 Example for exclusive group block orders

Let assume it is desired to send following exclusive group block orders:

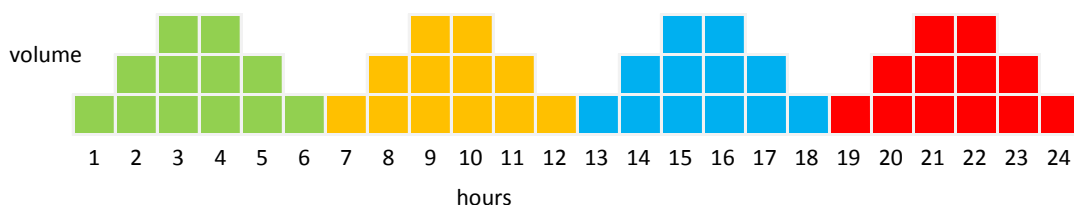
Exclusive group

Green Block
Block type: C04

Orange Block
Block type: C04

Blue Block
Block type: C04

Red Block
Block type: C04



Corresponding information has to be entered in ETS (either key in or copy/paste):

Block Code	ID	BlockCodePRM	MAR	Comment	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
C04			1	1 green block	45	60	5	10	15	15	10	5																			
C04			1	1 orange block	45	60							5	10	15	15	10	5													
C04			1	1 blue block	40	60													5	10	15	15	10	5							
C04			1	1 red block	41	60																				5	10	15	15	10	5

Exclusive group has a C04 block code

The four block bids belong to the same exclusive group (same group id)

Once the block orders have been inserted, the group ID is adapted to ETS group ID:

After order submission, exclusive group id is adapted

To modify an exclusive group click on 'Edit Groups'

To delete an exclusive group click on 'Edit Groups'

Block bid submission

Once the results are published, the execution status of the block orders can be viewed in ETS client block view screen:

Block ID	MAR	Block Code	BlockCodePRM	Area	Participant	Portfolio	Comment	Status	Paradoxically	Currency	av-MCP	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
8387600	1.00	0.00000	C04	12331	CH-SGD	TEST	TEST-T01	blue block	Rejected	No	EUR	10.00	40.00	0.0																		
8387601	1.00	0.00000	C04	12331	CH-SGD	TEST	TEST-T01	red block	Rejected	No	EUR	10.00	41.00	0.0																		
8387598	1.00	0.00000	C04	12331	CH-SGD	TEST	TEST-T01	green block	Rejected	No	EUR	10.00	45.00	0.0																		
8387599	1.00	0.00000	C04	12331	CH-SGD	TEST	TEST-T01	orange block	Rejected	No	EUR	10.00	45.00	0.0																		

In the csv market result file which can be downloaded from ETS client, the execution status for linked block orders is displayed as following:

Order is displayed as following:																																									
Block Id	MAR	AAR	Block Code	BlockCodePRM	Area	Participant	Portfolio	Comment	Status	Paradoxically	Currency	av	MCP	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
8387600	1	0	C04		12331	CH-SGD	TEST	TEST-T01	blue block	Rejected	No	EUR	10	40	0																										
8387601	1	0	C04		12331	CH-SGD	TEST	TEST-T01	red block	Rejected	No	EUR	10	41	0																										
8387598	1	0	C04		12331	CH-SGD	TEST	TEST-T01	green block	Rejected	No	EUR	10	45	0																										
8387599	1	0	C04		12331	CH-SGD	TEST	TEST-T01	orange block	Rejected	No	EUR	10	45	0																										

3.1.4 Example for loop block orders

Corresponding information has to be entered in ETS (either key in or copy/paste):

Block Code	ID	BlockCodePRM	MAR	Comment	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
C88			1	1	10	75	5	5	5	5	5	5	5	5									5	5	5	5	5	5	5	5
C88			1	1	12	70								10	5	15	10	5	10	5	10									

Loop block order has a C88 block code

Two block bids belong to same loop family (same group id)

Once the block orders have been inserted, the group ID is adapted to ETS group ID:

After order submission loop group id is adapted

Select 'Edit Groups' to modify the loop family

Select 'Delete Groups' to delete the loop family

Block bid submission

The screenshot shows the EPEX SPOT ETS client interface. At the top, there's a menu bar with 'File', 'View', 'Format', 'Settings', 'Window', and 'Help'. Below the menu bar, there's a toolbar with various icons. The main area displays 'Active Block Bids: 2' and '60 min'. Below this, there's a table with columns for 'Block Id', 'Block Code', 'BlockCodePRM', 'MAR', 'Comment', 'Price', 'Total', and 24 columns for hourly prices. The table shows two entries for 'C88' with different prices and totals. At the bottom, there's a 'Block bid entry' section with a table showing 'Block Id', 'Block Code', 'Id', 'BlockCodePRM', 'MAR', 'Comment', 'Price', 'Total', and 24 columns for hourly prices. The table shows two entries for 'C88' with different prices and totals. At the bottom right, there's a 'Block bid submission' button.

Once the results are published, the execution status of the block orders can be viewed in ETS client block view screen:

Market Results - My view (EpeX Trading System)

File View Format Settings Window Help

Overall Block Complex

Day Type: Auction Day

From Date: 14/11/2018

Area Set: CH

Auction Name: PWR-CH-D+1

Market Area: CH

Duration: 60 min

Participant: TEST

Portfolio: TEST-T01

Side: All

Status: All

Export To Excel

Block Id	MAR	AAR	Block Code	BlockCodePRM	Area	Participant	Portfolio	Comment	Status	Paradoxically	Currency	av MCP	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
8387584	1.00	0.00000	C88	12328	CH-SGD	TEST	TEST-T01		Rejected	No	EUR	1250.00	10.00	0.0																			
8387585	1.00	0.00000	C88	12328	CH-SGD	TEST	TEST-T01		Rejected	No	EUR	1250.00	12.00	0.0																			

















In the csv market result file which can be downloaded from ETS client, the execution status for linked block orders is displayed as following:

Block Id	MAR	AAR	Block Code	BlockCodePRM	Area	Participant	Portfolio	Status	Paradoxically	Currency	av MCP	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
8387584	1	0	C88		12328	CH-SGD	TEST	TEST-T01	rejected	No	EUR	1250	10	0																								
8387585	1	0	C88		12328	CH-SGD	TEST	TEST-T01	rejected	No	EUR	1250	12	0																								

3.1.5 Example for curtailable block orders

Consider C01 (The Regular Blocks) with MAR defined as shown below:

File View Format Settings Window Help



EPEXSPOT

Day Type

Auction Day

Auction Date Time

1 November 2018 - 11:00 cet/cest

Auction Name

PWR-CH-D+1

Area

CH-SGD


Portfolio

TEST-T02

Duration

60 min

EUR



Side

Import from ExcelExport bidsShow All

Active Block Bids: 360 min

First Period: 2018-11-02-00:00 cet/cest / Last Period: 2018-11-02-23:00 cet/cest

Block Id	Block Code	BlockCodePRM	MAR	Comment	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
8387158	C01		0.90		45.0	-240.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
8387159	C01		0.90		20.0	240.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
8387160	C01		1.00		50.0	-390.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0
Sum						-390.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0

Get Help Groups Contact Online Groups

View ImportsView Deleted Blocks

Once the results are published, the Execution status, MAR (Minimum Acceptance Ratio), and AAR (Actual Acceptance Ratio) of the curtailable block orders can be viewed in ETS client block view screen:

Market Results - My view (EpeX Trading System)

File View Format Settings Window Help

Overall Block Complex

Day Type: Auction Day

From Date: 01/11/2018

Area Set: CH

Auction Name: PWR-CH-D+1

Market Area: CH

Duration: 60 min

Participant: None

Portfolio: TEST-T01

Side: All

Status: All

Export To Excel

Block Id	MAR	AAR	Block Code	BlockCodePRM	Area	Participant	Portfolio	Comment	Status	Paradoxically	Currency	av MCP	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
8387159	0.90	0.90000	C01		CH-SGD	TEST	TEST-T01		Executed	No	EUR	20.00	20.00	216.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
8387160	1.00	0.00000	C01		CH-SGD	TEST	TEST-T01		Rejected	No	EUR	20.00	50.00	0.0																			
8387158	0.90	0.00000	C01		CH-SGD	TEST	TEST-T01		Rejected	No	EUR	20.00	45.00	0.0																			

- In the above screenshot, AAR = 0.9 for the Block Id 8387159 (the first block). For this block Submitted Quantity = 10 MW per hour and Price = 20 Euro.
AAR = 0.9 means 90% of the Submitted Quantity has been executed and accepted by the algorithm.

Calculation:

For every hour, Allocated Volume = 10 MW * 0.9 = 9 MW

In the csv market result file which can be downloaded from ETS client, the execution status, MAR, and AAR for curtailable block orders is displayed as following:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	
Block Id	MAR	AAR	Block Code	BlockCodePRM	Area	Participant	Portfolio	Comment	Status	Paradoxically	Currency	av	MCP	Price	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
8387159	0,9	0,9	C01		CH-SGD	TEST	TEST-T01		Executed	No	EUR	20	20	216	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
8387160	1	0	C01		CH-SGD	TEST	TEST-T01		Rejected	No	EUR	20	50	0																									
8387158	0,9	0	C01		CH-SGD	TEST	TEST-T01		Rejected	No	EUR	20	45	0																									

3.2 ETS API

Dedicated methods have been implemented to handle linked block orders, exclusive group block orders, loop block orders and curtailable block orders.

Please contact EPEX SPOT market operation for further information.

- **A MAR optional field** is available for the submission of **curtailable blocks** (MAR: Minimum Acceptance Ratio) for the *EnterBlockOrderBatch* method.
- MAR and AAR (Actual Acceptance Ratio) columns are present since ETS 3.1 in the <marketResultExport> tag of the output of *RetrieveMarketResultsFor*
- Loop blocks C88 value in the <BlockCode> tag for Loop Block Orders (methods *EnterBlockOrderBatch*, *RetrieveBlockOrders*, *RetrieveSmartBlockOrders* and *CancelBlockOrders*)
- Loop Dedicated methods are available in ETS 3.2 WSDL:
 - *RetrieveLoopBlocksWithGroupId*,
 - *CancelLoopBlocksWithGroupId*

3.3 EPEX Back Office FTP server

Market results are available on EPEX Back Office FTP server in both XML and XLS formats.

Block Code and Block Code PRM are indicated in these files for each block order.

3.4 Public reports

List of block orders available on EPEX SPOT and APX GROUP ftp servers (Bid Block Orders File, BBOF) is updated to include information for smart block orders including curtailable block orders and loop block orders. The modifications are highlighted in yellow in the table below.

3.4.1 File name / format

Name	bbof_<country>_YYYYMMDD
Format	CSV

3.4.2 Description of the elements

Header	Content and format
Data type	ST = status BB = Block Bids AL = number of lines
Delivery Date	DD.MM.YYYY
Block ID	Unique ID number per block
Block Type	Type of block: C01: normal block, C02: linked block, C04: exclusive group block, C88: loop block order
Block Code PRM	C02: parent block number, C04: Exclusive group id, C88: Loop group id
Execution	Y or N – indicates if a block bid has been executed or not
MAR	Minimum Acceptance Ratio: User defined value submitted by the trader during the block submission
AAR	Actual Acceptance Ratio: The actual ratio value returned by the system for the volume allocation
Currency	Euros
Limit Price	Market price, two decimals
Creation Time	HH:MM:ss CET CET – indicates the time when the file is created
Creation Date	DD.MM.YYYY – indicates the day when the file is created
Volume H01	Volume bid for Hour 1 (00:00-01:00), one decimal.
Volume H02	Volume bid for Hour 2 (01:00-02:00), one decimal.
Volume H03A	Volume bid for Hour 3 (02:00-03:00), one decimal. Field is empty for switch to summer time (DST – Daylight Saving Time)
Volume H03B	Volume bid for Hour 3 (02:00-03:00), one decimal. Field is filled for switch to winter time (DST – Daylight Saving Time)
Volume H04	Volume bid for Hour 4 (03:00-04:00), one decimal.
..	
Volume H24	Volume bid for Hour 24 (23:00-24:00), one decimal.