



ECC BOM CASCADING FILE

SPECIFICATION

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1 BACKGROUND

The ECC BoM cascading file should support the Clearing Members in implementing the BoM settlement procedure in their back office systems and provides input data for the calculation of margins. Additionally, it is used for an electronic distribution of the Expiry Month Factor that has to be considered in the calculation of the Additional Margin in the prompt month.

1.1 Products

ECC will provide two BoM cascading files:

- BoM cascading file for the EEX market containing information about the following products:
 - German Power Futures
 - French Power Futures
- BoM cascading file for the ENDEX market containing information about the following products:
 - Belgian Power Futures
 - Dutch Power Futures
 - TTF Gas Futures

In detail it covers the following contracts:

Product Code	WKN	ISIN	Product Name	Market
F0BM	A0C310	DE000A0C3107	German-Power-Baseload-Month-Future	EEX
F0PM	A0C311	DE000A0C3115	German-Power-Peakload-Month-Future	EEX
F0BQ	A0C312	DE000A0C3123	German-Power-Baseload-Quarter-Future	EEX
F0PQ	A0C313	DE000A0C3131	German-Power-Peakload-Quarter-Future	EEX
F0BY	A0C314	DE000A0C3149	German-Power-Baseload-Year-Future	EEX
F0PY	A0C315	DE000A0C3156	German-Power-Peakload-Year-Future	EEX
F2BM	A0C316	DE000A0C3164	French-Power-Baseload-Month-Future	EEX
F2PM	A0C317	DE000A0C3172	French-Power-Peakload-Month-Future	EEX
F2BQ	A0C318	DE000A0C3180	French-Power-Baseload-Quarter-Future	EEX
F2PQ	A0C319	DE000A0C3198	French-Power-Peakload-Quarter-Future	EEX
F2BY	A0C32A	DE000A0C32A9	French-Power-Baseload-Year-Future	EEX
F2PY	A0C32B	DE000A0C32B7	French-Power-Peakload-Year-Future	EEX

F3BM	A0JZGZ	NL0000686046	Belgian-Power-Baseload-Month-Future	ENDEX
F3BQ	A0JZG1	NL0000686053	Belgian-Power-Baseload-Quarter-Future	ENDEX
F3BY	A0JZG3	NL0000686061	Belgian-Power-Baseload-Year-Future	ENDEX
F4BM	A0JZGQ	NL0000685956	Dutch-Power-Baseload-Month-Future	ENDEX
F4XM	A0JZGS	NL0000686012	Dutch-Power-Peakload-Month-Future	ENDEX
F4BQ	A0JZGT	NL0000685964	Dutch-Power-Baseload-Quarter-Future	ENDEX
F4XQ	A0JZGV	NL0000686020	Dutch-Power-Peakload-Quarter-Future	ENDEX
F4BY	A0JZGW	NL0000685972	Dutch-Power-Baseload-Year-Future	ENDEX
F4XY	AOJZGY	NL0000686038	Dutch-Power-Peakload-Year-Future	ENDEX
G4BM	A0JZG8	NL0000686137	TTF-Gas-Baseload-Month-Future	ENDEX
G4BQ	A0JZG9	NL0000686145	TTF-Gas-Baseload-Quarter-Future	ENDEX
G4BY	A0JZHA	NL0000686152	TTF-Gas-Baseload-Year-Future	ENDEX

1.2 BoM Settlement

The “Balance of the Month” (BoM) settlement method for physical futures is based on a t+2 settlement of partial deliveries in conjunction with a stepwise reduction of the contract size in delivery month.

Starting two settlements days before the first delivery day, every settlement day a part of the contract size is splitted for delivery. The remaining contract (with reduced contract size) is tradable until it will be reduced to zero and expires two trading days before the end of the delivery period. Every trading day the delivery size for the second next delivery day (t+2) will be settled (24 MWh for baseload, 12 MWh for peakload). If that day is a weekend day or public holiday, the volume to be settled includes all delivery days until the next trading day. This “cascading” of the delivery month ends with a reduction of the contract size to zero.

Example (Baseload):

- On Wednesday the partial delivery for Friday (24 MWh) will be splitted
- On Thursday the partial delivery for Saturday, Sunday and Monday (72 MWh) will be splitted

Example (Peakload):

- On Wednesday the partial delivery for Friday (12 MWh) will be splitted
- On Thursday the partial delivery for Monday (12 MWh) will be splitted

All contracts base on the German delivery calendar, i.e.

- Delivery for baseload products: Monday to Sunday, 0 a.m. to 12 p.m., including holidays
- Delivery for peakload products: Monday to Friday, 8 a.m. to 8 p.m., including holidays

For the following contracts the Dutch delivery calendar will be basis of the cascading structure:

- Delivery of Dutch extended peakload products: Monday to Friday, 7 a.m. to 11 p.m., excluding holidays

In all cases the German trading calendar will be valid.

1.3 Expiry Month Factor

The Additional Margin will be multiplied with the Expiry Month Factor in the delivery period to cover the higher price risk and delivery risk in the prompt month. Contrary to the Variation Margin (which is related to the reduced contract size in the delivery month), the calculation of the Additional Margin is based on the original (=unreduced) contract size.

For details please refer to the ECC Margining Concept available under www.ecc.de.

2 FILE DEFINITION

2.1 File names

The file name reflects the actual delivery period following the scheme: „ecc_bom_cascading_file_[YYYYMMDD]_[VV].csv“. Cascading files for the ENDEX market are identified by the appendix “ENDEX” in the file name, i.e. “ecc_bom_cascading_file_ENDEX_[YYYYMMDD]_[VV].csv”.

The date [YYYYMMDD] reflects the first delivery day in the delivery period. The appendix [VV] reflects the version number of the file and starts with “01”.

Example:

“ecc_bom_cascading_file_20050401_01.csv” for Version 1 of April 2005.

2.2 Format

Both back office files are generated in csv-format with column separator “,” and decimal separator “.”. All contained fields are listed in the table of section 3.

2.3 Content

The cascading files contain:

- Information about partial deliveries settled on all ECC settlement days of all BoM contracts in the delivery period,
- The cascading dates of all contracts currently not in the delivery process. All products setup for clearing are listed, i.e. beside the BoM contract the next 6 months, 7 quarters and 6 years each.

2.4 Update Cycle

ECC will generate and publish the BoM cascading files on a monthly basis following the criteria:

- ECC generates the cascading files for month M on the first business day of month M-1.
- ECC has the right to update the files until the day before the first reduction of the contract size for the respective delivery month.
- ECC provides the files in the respective Clearing Member section on the ECC FTP server.
- ECC provides the files in the download section of the ECC website. Please contact ECC under clearing@ecc.de if you require login data to the protected website area.

3 FIELD DEFINITION

The cascading files contain a column header and cascading data according to the following field definition:

Field No	Field Name	Length	Type	Example	Further explanation
1	product_code	4	AN	F0BM	short code
2	maturity	8	N	20050401	Delivery Month; Format YYYYMMDD
3	process_date	8	N	20050330	date of cascading
4	contract_size	6	N	000744	current size (number of MWhs) of the contract
5	delivery_size	6	N	000024	Delivery (number of MWhs to be settled)
6	remaining_size	6	N	000720	remaining size (reduced number of MWhs) of the contract
7	expiry_month_factor	5	N	02.00	including two decimals

3.1 product_code

The field “product_code” contains the Eurex short code (Product ID), e.g. F0BM or F2PY and is used to identify a certain product. 4 character alphanumeric format.

3.2 maturity

The field “maturity” displays the expiry of the contract. Here, the first day of the delivery period is always used for the indication.

Example: F2PM MAY05 is displayed as 20050501 or F0BY Cal06 is displayed as 20060101. The crucial factor for Year and Quarter contracts is the first month of the contract period.

3.3 process_date

The field “process_date” contains the date the relevant contract cascades. For quarterly and yearly contracts it indicates the actual cascading date (three trading days before the first delivery day). For monthly contracts it indicates the date of the changeover to a BoM contract, i.e. the day before the first reduction of the contract size (three trading days before the first delivery day). For BoM contracts (Month contracts in the delivery period) it indicates the date of the reduction of the con-

tract size and splitting the volume that goes into delivery. 8 character numeric format following the scheme YYYYMMDD.

3.4 contract_size

The field “contract_size” refers to the contract size. It is the original contract size for Year, Quarter and Month futures as defined in the contract specification. For BoM contracts it refers to the contract size before reduction. 6 character numeric format with leading zeros.

Example: 000720 for 720 MWh.

3.5 delivery_size

The field “delivery_size” refers to the delivery size. Subject is the amount of the BoM contract that goes into delivery under consideration of t+2 settlement. Usually this is 24 MWh for baseload contracts and 12 MWh for peakload contracts per delivery day to settle.

For all contracts NOT in the delivery period this value is defined as “contract_size” for consistency reasons. 6 character numeric format with leading zeros.

Example: 000024 for 24 MWh.

3.6 remaining_size

The field “remaining_size” refers to the remaining contract size after reduction of the contract. For BoM contracts it will be zero on the last trading day. The value of this field is always the difference between “contract_size” and „delivery_size“. This includes all contracts that are not in the delivery period, too, because $\text{contract_size} - \text{delivery_size} = \text{remaining_size}$ (having $\text{contract_size} = \text{delivery_size}$). 6 character numeric format with leading zeros.

Example: 000000 for 0 MWh.

3.7 expiry_month_factor

The field “expiry_month_factor” contains the Expiry Month Factor (EMF) used for the margin calculation. The value is defined and maintained by ECC. Currently the EMF will only be applied in the prompt month. All other maturities use factor 1. It has to be considered that it might be subject to changes in the future.

Uses 5 character numeric format with two decimals and leading zeros. So, all values of the defined domain in Eurex (00.01 to 99.99) can be used.