



Investment Funds

End of day Technical Specifications

BME Market Data

End of Day Files

External Use

Investment Funds Technical Specifications V1-07

BME MARKET DATA

Versión: 1.07

29/08/2017 10:35:00

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VERSION CONTROL

Version	Date	Author
1.00	18/05/2017	BME Market Data

DISTRIBUTION CONTROL

This document is not available in paper format.

MODIFICATION CONTROL BY CHANGE OF VERSION

1.00 18.05.2017 – New document

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1 PRODUCT DESCRIPTION

Files after market close with data associated with investment funds: master data of BME listed investment funds, prices, volumes & Net Asset Values, and ticks on trades.

1.1 FILE AVAILABILITY

The files will normally be available at 20:00 CET every trading day of the stock exchange calendar. Fixed Income Master Data files are available at 18:30 CET. Derivatives files will normally be available at 21:30 CET every trading day of the MEFF calendar.

1.2 CLIENT SUPPORT

Address	Email	Telephone
Palacio de la Bolsa, Plaza de la Lealtad 1, 28014 - Madrid	marketdata@grupobme.es	+ 34 91 709 58 10

Users have at their disposal a client support service Monday to Friday from 09:00 to 18:30 CET. BME Market Data will keep the Client updated on any modification on the files, as well as on any technical improvements.

2 FORMAT AND DATA DELIVERY

2.1 FILE FORMAT

BME MARKET DATA provides the data for this product in files with the format TXT (";" as field separator and "." or "," as decimal separator). This format is compatible both with databases and spreadsheets. Each field in the file will be separated from the following field by ";" and each line ends with the specific character of line end.

2.2 DATA FORMAT

2.2.1 Numeric Format

No thousand separations are included. Depending on each file the "." or "," will be used as decimal separator.

2.2.2 Date and Time Conventions

Unless stated otherwise, the date fields are in the format YYYYMMDD being YYYY the year, MM the month and DD the day. Time fields are stated following the format HHMMSS or HHMMSSXX being HH the hour, MM the minute, SS the second and XX second hundredth. Dates and times refer to CET (Central European Time).

2.2.3 Headings of TXT files

The first line of ASCII files (extensions TXT or similar) contains the headings of the file; the rest of lines contain the data.

2.2.4 Data Delivery

The information is available via Internet through sftp (ssh file transfer protocol).

2.2.5 Name of files

Name of the file by product and type:

PRODUCTO	PRODUCT	CONTENT DESCRIPTION	FILE NAME
4116	FUNDS TICKS	Investment Funds Trades and quotes	FO_TRADES_STATUS_YYYYMMDD.TXT
		Investment Funds special transactions and block trades	FO_SPECIAL_BLOCK_YYYYMMDD.TXT
		Investment Funds Cancellations / Retrocessions	FO_CANCELLATION_YYYYMMDD.TXT
		Status of the previous trading session, and of the session's open and close	FO_PREVIOUS_OPEN_CLOSE_YYYYMMDD.TXT
		Investment Funds Best Bid and Offer	FO_BBO_YYYYMMDD.TXT
1116	MASTER DATA	Investment Funds Characteristics	FO_SECURITY_LIST_YYYYMMDD.TXT
		Investment Funds Status	FO_SECURITY_STATUS_YYYYMMDD.TXT
		Investment Funds Master Data	FO_MASTER_DATA_YYYYMMDD.TXT
2116	NET ASSET VALUE AND CLOSE	Closing Net Asset Values and volumes	FO_PRICE_VOLUMEN_YYYYMMDD.TXT

3 INVESTMENT FUNDS PRODUCT STRUCTURE

Information on Investment Funds that includes the following:

1. Master Data.
2. Closing prices and Net Asset Value.
3. Trades.
4. Best Bid and Offer
5. Corporate Actions (TBD)

3.1 FILE SY (INVESTMENT FUNDS CHARACTERISTICS)

File SY (FO_SECURITY_LIST_YYYYMMDD.TXT) that includes the following investment funds characteristics.

ASSET TYPE	FIELD NAME	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	FECHA	X(8)	Date of the information	YYYYMMDD
FO	SECUENCIA	9(15)	SEQUENCE NUMBER	
FO	ACCION	X(1)	ACTION	
FO	HORA	X(9)	Time	HHMMSSXXX o HHMMSS
FO	VALOR	X(8)	Instrument Code	
FO	COD_ISIN	X(12)	ISIN Code	
FO	NOMBRE_VALOR	X(25)	Short Name	
FO	NUMTITULOS	9(16)V9(6)	NUMBER OF LISTED ISSUES	
FO	ESTADO	X(1)	STATE	1 = Active 2 = Inactive (provisionally registered)
FO	GRUPO_VAL	X(2)	SECURITY GROUP	(See table below) FO: Investment Funds
FO	TIPO_PROD	X(2)	TYPE OF PRODUCT	(See table below)
FO	TIPOSUBYA	X(2)	UNDERLYING TYPE	"I" - IBEX 35® "C" - IBEX MEDIUM CAP® "S" - IBEX SMALL CAP® "L" - FTSE LATIBEX BRASIL "T" - FTSE LATIBEX TOP

ASSET TYPE	FIELD NAME	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
				"N" - FTSE4Good IBEX "D" - IBEX TOP DIVIDENDO® "B" - FTSE LATIBEX ALL SHARE "J" - IBEX 35® CON DIVIDENDOS "K" - IBEX 35® INVERSO "H" - IBEX 35® IMPACTO DIV "V" - IBEX 35® DOBLE INVERSO "W" - IBEX 35® TRIPLE INVERSO "F" - IBEX 35® DOBLE APALANCADO "M" - IBEX 35® TRIPLE APALANCADO "Y" - IBEX 35® CON DIVIDENDOS NETOS ETC...
FO	AMBITO	X(1)	LISTING MARKET	"1" - Valencia. "2" - Bilbao. "3" - Valencia y Bilbao. "4" - Barcelona. "5" - Valencia y Barcelona. "6" - Bilbao y Barcelona. "7" - Valencia, Bilbao y Barcelona. "8" - Madrid. "9" - Valencia y Madrid. "A" - Bilbao y Madrid. "B" - Valencia, Bilbao y Madrid. "C" - Barcelona y Madrid. "D" - Valencia, Barcelona y Madrid. "E" - Bilbao, Barcelona y Madrid. "F" - All the exchanges.
FO	FECHA_VTO	X(8)	MATURITY DATE	YYYYMMDD
FO	FECHA_VTO_mmyy	X(8)	MATURITY DATE (MONTH AND YEAR)	YYYYMM
FO	LOTE	9(16)V9(6)	LOT NUMBER OF TITLES PER LOT	0 1
FO	IND_DEC	X(5)	NUMBER OF DECIMALS OF THE SYSTEM	"4" – four decimals
FO	MAX_DEC	X(5)	MAXIMUM NUMBER OF DECIMALS	"4" – four decimals
FO	IND_BLOQ	X(1)	LISTED IN BLOCKS	N = No Y = Yes = NO
FO	IND_ESPE	X(1)	ALLOWS SPECIAL OPERATIONS	N = No Y = Yes = NO
FO	IND_FIXING	X(1)	LISTED IN FIXING MODE	N = No Y = Yes

ASSET TYPE	FIELD NAME	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
				= NO
FO	IND_CONTINUO	X(1)	LISTED IN CONTINUOS MODE	N = No Y = Yes = NO
FO	IND_VALOR_LIQ	X(1)	INDICATES NAV	N = No Y = Yes = NO
FO	IND_VTO_AUTO	X(1)	INDICATES AUTOMATIC MATURITY	N = No Y = Yes = NO
FO	IND_TICK	X(1)	TICK INDICATOR	Tick identifier (change in price) "0" ... (Not applicable) "1" - Tick in Price minimum unit "2" - Tick in Price minimum unit, unless it's over 50 €, in which case the Tick will be 5 times the minimum unit "3" - Tick in 5 times the Price minimum unit "4" - Tick type 4 adjusted price Tick in Price, unless the order's Price is within 10 and 50 euros, in which case the tick will be 5 times the minimum unit. If the Price is between 50 and 100 euros, the tick will be 10 times the minimum unit. Finally, if the Price is over 100 euros, the tick will be 50 times the minimum unit.
FO	FACTOR_MULTI	9(16)V9(6)	MULTIPLIER	1
FO	FECHA_ULT_NEG	X(8)	DATE OF LAST TRADE	YYYYMMDD
FO	PARTICIPES	9(16)V(6)	NUMBER OF PARTICIPANTS	
FO	UNI_CONTRATACION	9(16)V(6)	TRADING UNIT	0
FO	TIT_CIRCULACION	9(16)V(6)	NUMBER OF TITLES	
FO	IMP_CIRCULACION	9(16)V(6)	OUTSTANDING AMOUNT	
FO	TIT_MINIMO	9(16)V(6)	MINIMUM NUMBER OF TITLES	0
FO	IMP_MINIMO	9(16)V(6)	MINIMUM AMOUNT	0
FO	FECHA_ADMI	X(8)	LISTING DATE	YYYYMMDD
FO	FECHA_ULT_ADMI	X(8)	LAST LISTING DATE OF THE TITLES	YYYYMMDD
FO	IMP_ADMI	9(16)V(6)	LISTED AMOUNT	
FO	FECHA_EMIS	X(8)	RELEASE DATE	YYYYMMDD
FO	GESTORA	X(4)	MANAGEMENT FIRM CODE	
FO	EMISORA	X(4)	ISSUER CODE	
FO	SUBYACENTE	X(12)	UNDERLYING CODE	
FO	DIVISA_SUBYA	X(3)	UNDERLYING CURRENCY	ISO Code
FO	DIVISA_VALOR	X(3)	INSTRUMENT CURRENCT	ISO Code

ASSET TYPE	FIELD NAME	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	TIPO_TARIFA	X(2)	RATE TYPE	(see table below) FA Listed Investment Funds
FO	BOLSA_CAB	X(1)	MAIN STOCK EXCHANGE	"1" - Valencia. "2" - Bilbao. "4" - Barcelona. "8" - Madrid. "F" - Todas.
FO	SIST_LIQ	X(2)	SETTLEMENT SYSTEM INDICATOR	"F" - IBERCLEAR "L" - IBERCLEAR LATIBEX "B" - Barcelona "I" - Bilbao "V" - Valencia
FO	IMP_MED_TRIM	9(16)V9(6)	QUARTERLY AVERAGE AMOUNT	9
FO	IMP_MIN_BC	9(16)V9(6)	Minimum Amount Agreed Blocks	50000.00 typical
FO	IMP_MIN_BP	9(16)V9(6)	Minimum Amount Parametrized Blocks	50000.00 typical
FO	IMP_ORD_AUTO	9(16)V9(6)	AUTOMATIC ORDERS AMOUNT. EXTERNAL APPLICATIONS FILTER	3000000.00 typical
FO	MIN_TAM_ORD	9(15)	ORDERS MINIMUM SIZE	0
FO	MIN_VOL_OCULTO	9(15)	MINIMUM HIDDEN SECURITIES	0 250 5000
FO	LIM_SUP_TICK1	9(5)	Lim_sup_tick1	0
FO	VAL_SUP_TICK1	9(10)V9(4)	Val_sup_tick1	0.0001
FO	LIM_SUP_TICK2	9(5)	Lim_sup_tick2	
FO	VAL_SUP_TICK2	9(10)V9(4)	Val_sup_tick2	
FO	LIM_SUP_TICK3	9(5)	Lim_sup_tick3	
FO	VAL_SUP_TICK3	9(10)V9(4)	Val_sup_tick3	
FO	LIM_SUP_TICK4	9(5)	Lim_sup_tick4	
FO	VAL_SUP_TICK4	9(10)V9(4)	Val_sup_tick4	
FO	ORIGEN	X(2)	Origin	MA = MAB
FO	IndFondos	X(1)	Indicador de fondo	N = No Y = Yes
FO	NomFondoMaestro	X(80)	Name of the Master Fund	
FO	NomGestora	X(80)	Name of the Management firm	
FO	NomEntiDepo	X(80)	Name of the depository	
FO	TipoFondo	X(80)	Type of fund	
FO	MinFondo	9(20)V9(4)	Fund minimum	
FO	EfecMinFondo	9(20)V9(4)	Fund minimum (in Euro)	
FO	HoraCorte	X(6)	Limit time for the calculation of the NAV	HHMMSS

ASSET TYPE	FIELD NAME	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	IndPlazoVL	X(1)	Term to communicate the NAV	1, 2, 3 days
FO	MaxDecimalFondo	X(3)	Maximum number of decimals of the fund NAV	Typically 6 decimals

3.2 FILE fSY (INVESTMENT FUND STATUS)

File fSY (FO_SECURITY_STATUS_YYYYMMDD.TXT) that includes the status of the investment fund.

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	FECHA	X(8)	DATE	YYYYMMDD
FO	SECUENCIA	9(15)	SEQUENCE NUMBER	
FO	VALOR	X(8)	SECURITY ID	
FO	COD_ISIN	X(12)	ISIN CODE	
FO	ESTADO	X(2)	STATUS	17 = Ready to trade 18 = Not available for trading 21 = Auction
FO	PRE_REFERENCIA	9(12)V9(6)	REFERENCE PRICE	
FO	PORC_DEV_DINA	9(12)V9(6)	DINAMIC DEVIATION PERCENTAGE	
FO	PRE_REF_ESTA	9(12)V9(6)	STATIC REFERENCE PRICE	
FO	PORC_REF_ESTAC	9(12)V9(6)	STATIC REFERENCE PERCENTAGE	
FO	HORA	X(9)	TIME	HHMMSSXXX or HHMMSS
FO	VALOR_LIQUIDATIVO	9(12)V9(6)	NET ASSET VALUE (NAV)	
FO	FECHA_VALOR_LIQ	X(8)	DATE OF NAV	YYYYMMDD
FO	HORA_FIN_SUBASTA	X(8)	AUCTION CLOSING HOUR	HHMMSSXXX or HHMMSS
FO	IND_BONUS	X(1)	BONUS INDICATOR	
FO	PORC_ESTA_BLOQ	9(12)V9(6)	STATIC RANGE PERCENTAGE (BLOCKS)	
FO	PORC_HORQ_BLOQ	9(12)V9(6)	RANGE PERCENTAGE (BLOCKS)	
FO	MOTIVO_SUBASTA	X(3)	AUCTION MOTIVE	100 = Manual auction 101 = Extension of opening auction 102 = Extension of closing auction 103 = Volatility auction
FO	MOTIVO_SUSPENSION	X(3)	SUSPENSION MOTIVE	If [SITUNEG] = 18 100 = suspended by regulator 101 = interrupted because of supervision 102 = Stopped by knock-out 103 = Pending of knock-in

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
				If [SITUNEG] = 21 100 = Manual auction 101 = Extension of opening auction 102 = Extension of closing auction 103 = Volatility auction
FO	TIPO_ACTU_ESPEC	X(1)	ACTION TYPE OF THE ESPECIALIST	0 = Specialist/s not exonerated 1 = Specialist/s exonerated in purchase 2 = Specialist/s exonerated in sell 3 = Specialist/s exonerated in purchase and sell
FO	ORIGEN	X(2)	Origen	MA = MAB

The first field to check is de STATE field:

- 1 = Active (Ready to trade)
- 2 = Provisionally registered (not in the system yet)

If STATE = 1

- SITUNEG = 17 (Ready to Trade) Can be traded normally (the field SITUACION is “ “ high necessarily)
- SITUNEG = 18 (Not available for trading) being the reason MOTIVOSUSPEN (100, 101, 102, 203), cannot be traded in that moment. (the field SITUACION can be high or low)
 - 100 = Suspended by the controller
 - 101 = interrupted because of supervision
 - 102 = Stopped by knock-out
 - 103 = Pending knock-in
- SITUNEG = 21 Auction (The field SITUACION is high necessarily) being the reason MOTIVOSUSPEN (100, 101, 102, 203), cannot be traded in that moment. (the field SITUACION can be high or low)
 - 100 = Manual Auction
 - 101 = Extension of opening auction
 - 102 = Extension of closing auction
 - 103 = Volatility auction

3.3 FILE A (INVESTMENT FUNDS TRADES)

File A (FO_TRADES_STATUS_YYYYMMDD.TXT) that includes the Investment Funds trades.

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	FECHA	X(8)	DATE	YYYYMMDD
FO	SECUENCIA	9(15)	SEQUENCE NUMBER	
FO	VALOR	X(8)	SECURITY ID	
FO	VOLUMEN	9(11)	TRADED VOLUME	
FO	PRECIO	9(12)V9(6)	TRADE PRICE	
FO	SOC_COMP	X(4)	BUY BROKER	This field can be in blank.
FO	SOC_VEND	X(4)	SELL BROKER	This field can be in blank.
FO	HORA	X(9)	TIME	HHMMSSXXX or HHMMSS
FO	MODAL_CONTR	X(3)	TRADING MODALITY	100 = Continuous market 101 = Fixing 102 = Block Market 103 = Special transactions 104 = NAV 113 = Fixing Funds
FO	FECHANEG	X(8)	DATE OF TRADE	YYYYMMDD
FO	NUM_OPER_SIBE	X(10)	SIB NUMBER OPERATION	
FO	IND_P_A_C	X(1)	BUYTRADINGTYPE: "3" OWN ACCOUNT; "1" FOR THIRD PARTIES, "7" SPECIALIST	BUYTRADINGTYPE: "3" OWN ACCOUNT; "1" FOR THIRD PARTIES, "7" SPECIALIST
FO	IND_P_A_V	X(1)	SELLTRADINGTYPE: "3" OWN ACCOUNT; "1" FOR THIRD PARTIES, "7" SPECIALIST.	SELLTRADINGTYPE: "3" OWN ACCOUNT; "1" FOR THIRD PARTIES, "7" SPECIALIST.
FO	ORIGEN	X(2)	ORIGIN	MA = MAB
FO	EFFECTIVO	9(17)V9(6)	TRADED TURNOVER	
FO	PRECIO_MEDIO	9(12)V9(6)	AVERAGE PRICE IN THE DAY	
FO	PRECIO_ALTO	9(12)V9(6)	HIGH PRICE IN THE DAY	
FO	PRECIO_BAJO	9(12)V9(6)	LOW PRICE IN THE DAY	
FO	VOLUMEN_ACUM	9(17)V9(6)	ACCUMULATED VOLUME IN THE DAY	
FO	EFFECTIVO_ACUM	9(17)V9(6)	ACCUMULATED TURNOVER IN THE DAY	
FO	PROC_OPER	X(2)	PROC OPER	1 (open market operation), 2 (opening auction operation), 3 (closing auction operation), 4 (volatility auction operation), 5 (manual auction operation), 6 (extended opening auction operation), 7 (extended closing auction operation), 8 (closing Price trading period operation) If it's a retrocession operation, this field would always be "1" Blank if it's for example a special operation.
FO	MARCA_DIFU	X(1)	BROKER'S (BUYER / SELLER) DIFUSSION (OR NOT)	Y (Includes SOC_COMP y SOC_VEND)

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
				N (Doesn't include SOC_COMP y SOC_VEND) B (Includes SOC_COMP only) S (Includes SOC_VEND only)

3.4 FILE AE (INVESTMENT FUNDS SPECIAL TRADES)

File AE (FO_SPECIAL_BLOCK_YYYYMMDD.TXT) that includes the special transactions.

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	FECHA	X(8)	DATE	YYYYMMDD
FO	SECUENCIA	9(15)	SEQUENCE NUMBER	
FO	VALOR	X(8)	SECURITY ID	
FO	VOLUMEN	9(11)	VOLUME TRADED	
FO	PRECIO	9(12)V9(6)	TRADE PRICE	
FO	EFFECTIVO	9(17)V9(6)	TRADED TURNOVER	
FO	SOC_COMP	X(4)	BUY BROKER	This field can be blank.
FO	SOC_VEND	X(4)	SELL BROKER	This field can be blank.
FO	FECHANEG	X(8)	DATE OF TRADE	YYYYMMDD
FO	HORA	X(9)	TIME OF TRADE	HHMMSSXXX or HHMMSS
FO	TIPO_OPER	X(4)	TYPE OF SPECIAL OPERATION.	See Descriptions 1033 Fund D + 1 1034 Fund D + 2 1035 Fund D + 3 SEE TIPO_OPER TABLE CONTENT
FO	NUM_OPER_SIBE	X(10)	SIB Transaction Number	
FO	IND_P_A_C	X(1)	BUYTRADINGTYPE	"3" OWN ACCOUNT; "1" FOR THIRD PARTIES, "7" SPECIALIST
FO	IND_P_A_V	X(1)	SELLTRADINGTYPE	"3" OWN ACCOUNT; "1" FOR THIRD PARTIES, "7" SPECIALIST
FO	MODAL_CONTR	X(3)	TRADING MODALITY	100 = Continuous market 101 = Fixing 102 = Block Market 103 = Special transactions 104 = NAV 113 = Fixing Funds
FO	ORIGEN	X(2)	ORIGIN	MA = MAB
FO	VOLUMEN_ACUM	9(17)V9(6)	ACCUMULATED VOLUME IN THE DAY	
FO	EFFECTIVO_ACUM	9(17)V9(6)	ACCUMULATED TURNOVER IN THE DAY	

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	PROC_OPER	X(2)	PROC OPER	1 (open market operation), 2 (opening auction operation), 3 (closing auction operation), 4 (volatility auction operation), 5 (manual auction operation), 6 (extended opening auction operation), 7 (extended closing auction operation), 8 (closing Price trading period operation) If it's a retrocession operation, this field would always be "1" Blank if it's for example a special operation.
FO	MARCA_DIFU	X(1)	BROKER'S (BUYER / SELLER) DIFUSSION (OR NOT)	Y (Includes SOC_COMP y SOC_VEND) N (Doesn't include SOC_COMP y SOC_VEND) B (Includes SOC_COMP only) S (Includes SOC_VEND only)
FO	COMPENSADOR	X(1)	Clearing member	Clearing member

3.5 FILE H (INVESTMENT FUNDS RETROCESSIONS)

File H (FO_CANCELLATION_YYYYMMDD.TXT) that includes investment funds retrocessions.

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	FECHA	X(8)	DATE	YYYYMMDD
FO	SECUENCIA	9(15)	SEQUENCE NUMBER	
FO	VALOR	X(8)	SECURITY ID	
FO	VOLUMEN	9(11)	TRADED VOLUME	
FO	PRECIO	9(12)V9(6)	TRADE PRICE	
FO	SOC_COMP	X(4)	BUY BROKER	This field can be in blank.
FO	SOC_VEND	X(4)	SELL BROKER	This field can be in blank.
FO	HORA	X(9)	TIME	HHMMSSXXX OR HHMMSS
FO	MODAL_CONTR	X(3)	TRADING MODALITY	100 = Continuous market 101 = Fixing 102 = Block Market 103 = Special transactions 104 = NAV 113 = Fixing Funds
FO	TIPO_OPER	X(4)	TYPE OF SPECIAL OPERATION	24 – Retrocession SEE TIPO_OPER TABLE CONTENT

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	FECHANEG	X(8)	DATE OF TRADE	YYYYMMDD
FO	NUM_OPER_SIBE	X(10)	SIB OPERATION NUMBER	
FO	NUM_OPER_SIBE_RT	X(10)	SIB OPERATION NUMBER DOWNGRADED	
FO	IND_P_A_C	X(1)	BUYTRADINGTYPE	"3" OWN ACCOUNT; "1" FOR THIRD PARTIES, "7" SPECIALIST
FO	IND_P_A_V	X(1)	SELLTRADINGTYPE	"3" OWN ACCOUNT; "1" FOR THIRD PARTIES, "7" SPECIALIST
FO	ORIGEN	X(2)	ORIGIN	MA = MAB
FO	EFFECTIVO	9(17)V9(6)	TRADED TURNOVER	
FO	PRECIO_MEDIO	9(12)V9(6)	AVERAGE PRICE IN THE DAY	
FO	PRECIO_ALTO	9(12)V9(6)	HIGH PRICE IN THE DAY	
FO	PRECIO_BAJO	9(12)V9(6)	LOW PRICE IN THE DAY	
FO	VOLUMEN_ACUM	9(17)V9(6)	ACCUMULATED VOLUME IN THE DAY	
FO	EFFECTIVO_ACUM	9(17)V9(6)	ACCUMULATED TURNOVER IN THE DAY	
FO	PROC_OPER	X(2)	PROC OPER	1 (open market operation), 2 (opening auction operation), 3 (closing auction operation), 4 (volatility auction operation), 5 (manual auction operation), 6 (extended opening auction operation), 7 (extended closing auction operation), 8 (closing Price trading period operation) If it's a retrocession operation, this field would always be "1" Blank if it's for example a special operation.
FO	MARCA_DIFU	X(1)	MEMBERS DISCLOSURE INDICATOR	Y (Includes SOC_COMP y SOC_VEND) N (Doesn't include SOC_COMP y SOC_VEND) B (Includes SOC_COMP only) S (Includes SOC_VEND only)
FO	COMPENSADOR	X(1)	Clearing member	Clearing member

3.6 FILE P (STATUS: PREVIOUS CLOSING, OPEN AND CLOSE)

File P (FO_PREVIOUS_OPEN_CLOSE_YYYYMMDD.TXT) that includes the closing status of investment funds.

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	FECHA	X(8)	DATE	YYYYMMDD

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	VALOR	X(8)	SECURITY ID	
FO	PrecioCieAnt	9(12)V9(6)	LAST CLOSING PRICE	
FO	PrecioAper	9(12)V9(6)	OPENING PRICE	
FO	PrecioMaxSes	9(12)V9(6)	High Price	
FO	PrecioMinSes	9(12)V9(6)	Low price	
FO	PrecioCierre	9(12)V9(6)	CLOSING PRICE	
FO	VOLUMEN_ACUM	9(17)V9(6)	ACCUMULATED VOLUME IN THE DAY	
FO	EFFECTIVO_ACUM	9(17)V9(6)	ACCUMULATED TURNOVER IN THE DAY	
FO	HoraCierre	X(9)	Closing time	HHMMSSXXX O HHMMSS
FO	Origen	X(2)	ORIGIN	MA = MAB
FO	PrecioMedio	9(12)V9(6)	Average Price of the trading session.	

3.7 FILE SECURITIES (FULL MASTER DATA)

File Securities (FO_MASTER_DATA_YYYYMMDD.TXT) that includes the status and master data of investment funds.

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	Fecha	X(8)	Date of the information	YYYYMMDD
FO	Valor	X(8)	Instrument Code	
FO	CodISIN	X(12)	ISIN Code	
FO	Estado	X(1)	Status	1 = Active (ready to trade) 2 = Inactive (provisionally registered)
FO	GrupoVal	X(2)	Security group	(See table below) FO: Investment Funds
FO	TipoProducto	X(2)	Product type	(See table below) FA Listed Investment Funds
FO	TipoSubya	X(2)	Underlying type	"I" - IBEX 35® "C" - IBEX MEDIUM CAP® "S" - IBEX SMALL CAP® "L" - FTSE LATIBEX BRASIL "T" - FTSE LATIBEX TOP "N" - FTSE4Good IBEX "D" - IBEX TOP DIVIDENDO® "B" - FTSE LATIBEX ALL SHARE "J" - IBEX 35® CON DIVIDENDOS "K" - IBEX 35® INVERSO

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
				"H" - IBEX 35® IMPACTO DIV "V" - IBEX 35® DOBLE INVERSO "W" - IBEX 35® TRIPLE INVERSO "F" - IBEX 35® DOBLE APALANCADO "M" - IBEX 35® TRIPLE APALANCADO "Y" - IBEX 35® CON DIVIDENDOS NETOS ETC...
FO	AmbitoAdmis	X(1)	Exchange(s) in which the instrument is traded	"1" - Valencia. "2" - Bilbao. "3" - Valencia y Bilbao. "4" - Barcelona. "5" - Valencia y Barcelona. "6" - Bilbao y Barcelona. "7" - Valencia, Bilbao y Barcelona. "8" - Madrid. "9" - Valencia y Madrid. "A" - Bilbao y Madrid. "B" - Valencia, Bilbao y Madrid. "C" - Barcelona y Madrid. "D" - Valencia, Barcelona y Madrid. "E" - Bilbao, Barcelona y Madrid. "F" - All the exchanges.
FO	NomCompleto	X(25)	Equity full name	
FO	NomRed	X(25)	Equity short name	
FO	ValliqInd	X(10)	Indicative net asset value	
FO	SUBYACENTE	X(12)	Underlying code	
FO	CvalisoSubya	X(12)	Underlying ISIN	
FO	DivisaSubya]	X(3)	Underlying currency	ISO 3166 CURRENCY CODE
FO	EMISORA	X(4)	Issuer code	
FO	Divisa	X(3)	Currency	ISO 3166 CURRENCY CODE
FO	MinTamOrd	9(15)	Minimum Order Amount	1 (as applicable)
FO	TamLote	9(16)V9(6)	Number of Securities per Lot. Lot Size	1 (as applicable) 0
FO	IndBloq	X(1)	Trades in blocks (or not)	N = No Y = Yes = NO
FO	IndEspe	X(1)	Admits Special Transactions	N = No Y = Yes = NO
FO	IndFixing	X(1)	Trades in Fixing Mode	N = No

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
				Y = Yes = NO
FO	IndContinuo	X(1)	Trades in the Continuous Market	N = No Y = Yes = NO
FO	IndVtoAuto	X(1)	Automatic Maturity Indicator	N = No Y = Yes = NO
FO	IndBolsa	X(1)	Securities Market Indicator	"1" - Valencia. "2" - Bilbao. "4" - Barcelona. "8" - Madrid. "F" - All.
FO	IndOpeValLiq	X(1)	Transaction at NAV Indicator	N = No Y = Si = No
FO	IndInstitu	X(1)	Indicates if they are Institutional Securities	N = No Y = Yes
FO	Sector	X(3)	Sector	(See Table Below)
FO	Nominal	9(16)V(6)	Nominal	
FO	FecDividendo	X(8)	Dividend payment date	YYYYMMDD
FO	ImportAdmit	9(16)V(6)	Amount admitted to trading	
FO	TitCotiza	9(16)V(6)	Number of securities admitted to trading	
FO	FecAdmision	X(8)	Admission date	YYYYMMDD
FO	FecUltAdmision	X(8)	Date last securities admission	YYYYMMDD
FO	ImporteTrim	9(16)V9(6)	Quarterly amount	
FO	Imp_Min_BC	9(16)V9(6)	Minimum amount Agreed Blocks	50000.00
FO	Imp_Min_BP	9(16)V9(6)	Minimum Amount Parametrised Blocks	50000.00
FO	Imp_Ord_Auto	9(16)V9(6)	Automatic Orders Amount. External Applications Filter	3000000.00
FO	MinTitOcultos	9(15)	Minimum amount of hidden shares	0
FO	TipoTarifa	X(2)	Fee type	(See Table Below) FA: Listed Investment Funds
FO	SistLiq	X(2)	Settlement system	"F" - IBERCLEAR "L" - IBERCLEAR LATIBEX "B" - Barcelona "I" - Bilbao "V" - Valencia
FO	IndCalcVLI	X(1)	Indicator of the NAV calculation	N = No Y = Yes = NO

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	TipoValor	X(1)	Security Type	N = Registered P = Bearer =
FO	IndCredito	X(1)	Credit Indicator	N = No Y = Yes = NO
FO	EmpGestora	X(4)	Management Firm Code	NNNN
FO	EmpCompen	X(4)	Management Firm Name	NNNN
FO	ImportCirc	9(16)V(6)	Amount outstanding	
FO	NumTitCirc	9(16)V(6)	Number of shares outstanding	
FO	ImportMin	9(16)V(6)	Minimum Amount	Yes 0 or “ ” does not apply
FO	NumTitMin	9(16)V(6)	Minimum Amount of Shares	Yes 0 or “ ” does not apply
FO	CantPartc	9(16)V(6)	Number of Participants	
FO	UniContrat	9(16)V(6)	Trading unit	As applicable for every issue
FO	IndDecimal	X(5)	Number of shares	“4” – Four decimals
FO	MaxDecimal	X(5)	Number of Decimals in the System	“4” – Four decimals
FO	IndTick	X(1)	Tick Indicator	Tick indicator (change in price) 0 “1” - Tick in minimum price unit “2” - Tick in minimum price unit, unless the price is over €50 in which case the tick would be 5 times the minimum price unit. “3” - Tick in 5 minimum price units. “4” - Tick Type 4 adjusted to price. Tick in minimum price unit, unless the price of the order is in the range between €10 and €50, in which case the tick would be 5 times the minimum price unit. If the price is between €50 and €100 the tick would be 10 times the minimum unit. Finally, if the price is over €100 the tick would be 50 times the minimum price unit. See Combination table MAXDECIMAL + INDTICK
FO	LIM_SUP_TICK1	9(5)	Lim_sup_tick1	0
FO	VAL_SUP_TICK1	9(10)V9(4)	Val_sup_tick1	0.0001
FO	LIM_SUP_TICK2	9(5)	Lim_sup_tick2	0
FO	VAL_SUP_TICK2	9(10)V9(4)	Val_sup_tick2	0.0000
FO	LIM_SUP_TICK3	9(5)	Lim_sup_tick3	0
FO	VAL_SUP_TICK3	9(10)V9(4)	Val_sup_tick3	0.0000

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	LIM_SUP_TICK4	9(5)	Lim_sup_tick4	0
FO	VAL_SUP_TICK4	9(10)V9(4)	Val_sup_tick4	0.0000
FO	SituNeg	X(2)	Trading status	17 = Ready to trade 18 = Not available for trading 21 = Auction
FO	PorcOscRanDin	9(12)V9(6)	Percentage of dynamic range fluctuation	Fixed by the market's regulations
FO	PorcOscRanEst	9(12)V9(6)	Percentage of static range fluctuation	Fixed by the market's regulations
FO	FecValLiq	X(8)	NAV date	YYYYMMDD
FO	HoraValLiq	X(6)	NAV time	HHMMSS
FO	ValorLiq	9(12)V9(6)	NAV	
FO	PrecioRef	9(12)V9(6)	Reference price	
FO	PrecioEst	9(12)V9(6)	Static price	
FO	IndBonus	X(1)	Bonus indicator	Indicates if the bonus is or not active (bonus) Y=Yes; N=No; Blank: no bonus
FO	PorcOscRanEstBlqParam	9(12)V9(6)	Percentage of parametrized static range fluctuation	
FO	PorcVariPMHorqBlq	9(12)V9(6)	Percentage of Agreed Blocks fluctuation range	
FO	MotivoSuspen	X(3)	Reasons for the suspension	If [SITUNEG] = 18 100 = Suspended by the Regulator 101 = Interrupted by Supervision 102 = Stopped by knock-out 103 = Pending knock-in If [SITUNEG] = 21 100 = Manual auction 101 = Extension of opening auction 102 = Extension of the closing auction 103 = Volatility auction
FO	Hora	X(6)	Time	HHMMSS
FO	TipoActuEspeci	X(1)	Specialist action type.	0 = Specialist/s not exonerated 1 = Specialist/s exonerated in buy 2 = Specialist/s exonerated in sell 3 = Specialist/s exonerated in buy and sell
FO	Origen	X(2)	Segment	MA = MAB
FO	MaxDecimalFondo	X(3)	Number of decimals of the NAV	Typically 6 decimals
FO	IndFondos	X(1)	Fund Indicator	Y Yes N No
FO	ClaseFondo	X(1)	Fund Class	Y Yes N No
FO	NomFondoMaestro	X(80)	Name of the Master Fund	

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	NomGestora	X(80)	Name of the Management Firm	
FO	NomEntiDepo	X(80)	Name of the depositary entity	
FO	TipoFondo	X(80)	Fund type	
FO	MinFondo	9(20)V9(4)	Minimum of the fund	
FO	EfecMinFondo	9(20)V9(4)	Minimum of the fund (in Euro)	
FO	HoraCorte	X(6)	Limit time for the calculation of the NAV	HHMMSS
FO	IndPlazoVL	X(1)	Term to communicate the NAV	1, 2, 3 días
FO	HoraMaxTitularidades	X(6)	Maximum time to submit information on the fund holders	HHMMSS
FO	HoraMaxGestora	X(6)	Maximum time management firm	HHMMSS

The key when storing the information is the "Instrument Code" (VALOR), this field once the FUND is active (ESTADO=1, Active) does not change. The rest of the fields can eventually change, although this is uncommon once the FUND is active.

The first field to check is the field ESTADO:

- 1 = Active (ready to trade)
- 2 = Provisionally registered (not in the system yet)

If ESTADO = 1

- SITUNEG = 17 (Ready to Trade) It can be traded. (The field SITUACION is " " registered necessarily)
- SITUNEG = 18 (Not available for trading) the cause being that displayed in the field MOTIVOSUSPEN (100, 101, 102, 203). Trading is not possible in that moment.
 - 100 = Suspended by the Regulator
 - 101 = Interrupted by Supervision
 - 102 = Stopped by knock-out
 - 103 = Pending knock-in
- SITUNEG = 21 Auction (The field SITUACION is in " " registration) the cause being that displayed in the field MOTIVOSUSPEN (100, 101, 102, 203). Trading is not possible in that moment.
 - 100 = Manual auction
 - 101 = Extension of opening auction
 - 102 = Extension of the closing auction
 - 103 = Volatility auction

3.8 FILE CLOSING PRICES

File with Investment Funds closing prices (FO_PRICE_VOLUMEN_YYYYMMDD.TXT).

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	FECHA	X(8)	TRADING DATE	YYYYMMDD
FO	VALOR	X(5)	INSTRUMENT CODE	
FO	ISIN	X(12)	ISIN CODE	The 2 first characters are the country code. The following 9 characters contain the national identification code valid for each country. The last character is the control digit.
FO	NOMBRE	X(12)	INSTRUMENT SHORT NAME	
FO	NOMCOMPLETO	X(80)	INSTRUMENT COMPLETE NAME	
FO	PRECIOREF	9(12)V9(6)		
FO	PRECIOCIANT	9(12)V9(6)	CLOSING PRICE PREVIOUS TRADING DAY	
FO	PRECIOCI	9(12)V9(6)	CLOSING PRICE	
FO	OPERACIONES	9(18)	NUMBER OF TRADES IN THE DAY	
FO	EFFECTIVO / EfecAcum	9(17)V9(6)	TURNOVER TRADED IN THE DAY	
FO	TITULOS / VolAcum	9(17)V9(6)	VOLUME TRADED IN THE DAY	
FO	ACCIONCIRCULA	9(11)	NUMBER OF SHARES OUTSTANDING	
FO	GESTORA	X(20)	NAME OF THE SICAV MANAGEMENT FIRM	
FO	HORA_V-L	X(6)	Net Asset Value Time	HHMMSS
FO	FECHA_V-L	X(8)	DATE OF THE NAV	YYYYMMDD
FO	VALOR_LIQUIDATIVO	9(12)V9(6)	NAV, WITH DECIMALS	
FO	NUM_PARTICIPES	9(9)	NUMBER OF PARTICIPANTS	
FO	PATRIMONIO_V_L	9(17)V9(6)	NET WORTH, WITH DECIMALS	NET WORTH CALCULATED AT NAV (NET ASSET VALUE)
FO	ORIGEN	X(2)	ORIGIN	MA = MAB

3.9 FILE SM (BEST BID AND OFFER) (TABLES FO_SM)

File with investment funds best bid and offer (FO_BBO_YYYYMMDD.TXT).

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	FECHA	X(8)	TRADING DATE	YYYYMMDD
FO	SECUENCIA	9(15)	SEQUENCE NUMBER	
FO	VALOR	X(8)	SECURITY ID	

ASSET TYPE	FIELD CODE	LENGTH	DESCRIPTION	FORMAT / POSSIBLE VALUES
FO	N_O_PRE_COMP	9(10)	BEST BUYING POSITION NUMBER OF ORDERS	
FO	EFFECTIVO_COMP	9(18)V9(6)	BEST BUYING POSITION ACCUMULATED TURNOVER	
FO	EFFECTIVO_VENT	9(18)V9(6)	BEST SELLING POSITION ACCUMULATED TURNOVER	
FO	N_O_PRE_VENT	9(10)	BEST SELLING POSITION NUMBER OF ORDERS	
FO	HORA	X(9)	Time	HHMMSSXXX OR HHMMSS
FO	ORIGEN	X(2)	ORIGIN	MA = MAB

3.10 SMART ADDITIONAL DESCRIPTIONS

3.10.1 Content of “TIPOPRODUCTO” and “TIPOTARIFA” fields

Type of product	Description
A	Stocks
B	Structured bonds
C	Certificates
D	Subscription rights
F	Funds
FA	Listed Investment Funds
G	Discount
H	Bonus CAP
I	Inlines
J	Stay Low
K	Bonus
L	Sprint
M	Very new shares
N	New shares
O	Other products

Type of product	Description
P	Turbo Pros
R	Prefered stock
S	Underlying
U	Voting shares
V	Convertible bond rights
W	Warrants
T	Turbo Warrants
X	Participaciones
Y	Stay High
Z	Multi
1	SICAVs VL T+1
2	SICAVs VL T+2
3	SICAVs VL T+3

3.10.2 GRUPOVAL field Content

Segment	Values Group	Description
EQ	AC	Shares
	DE	Rights
	CP	Voting shares
	CE	Electronic trading
	NC	Unlisted funds
TF	OA	RVs
CW	WC	Certificates
	WA	Warrants

	WO	Others
	SY	Underlying
MA	EE	Growth Companies
	SI	SICAVs
	FC	Venture capital funds
	IL	Hedge Funds
	IC	Funds of Hedge Funds
	SO	SOCIMs / REITs
	FO	Investment Funds
LT	AL	LATIBEX Shares
	DL	LATIBEX Rights

3.10.3 SECTOR Field Content

SECTOR	COD. SMART
1. OIL AND ENERGY	
OIL	101
ELECTRICITY AND GAS	102
WATER AND OTHERS	103
RENEWABLE ENERGIES	104
2. BASIC MATERIALS, INDUSTRY AND CONSTRUCTION	
MINERALS, METALS, MET. PRODUCTS	201
MANUFACTURING AND ASSEMBLY OF CAPITAL GOODS	202
CONSTRUCTION	203
CONSTRUCTION MATERIALS	204
CHEMICAL INDUSTRY	205
ENGINEERING AND OTHERS	206
AEROSPACE	207
3. CONSUMER GOODS	
FOOD AND BEVERAGES	301

SECTOR	COD. SMART
TEXTILE, CLOTHING AND FOOTWEAR	302
PAPER AND GRAPHIC ARTS	303
AUTOMOTIVE	304
PHARMACEUTICALS AND BIOTECHNOLOGY	305
OTHER CONSUMER GOODS	306
4. CONSUMER SERVICES	
LEISURE, TOURISM AND HOTEL INDUSTRY	401
COMMERCE	402
MEDIA AND ADVERTISING	403
TRANSPORT AND DISTRIBUTION	404
MOTORWAYS AND CAR PARKS	405
OTHER SERVICES	406
5. FINANCIAL SERVICES AND REAL ESTATE	
BANKS AND SAVINGS BANKS	501
INSURANCE	502
PORTFOLIO AND HOLDINGS	503
SICAV	504
REAL ESTATE AND OTHERS	505
INVESTMENT SERVICES	506
TRADED FUNDS	507
VENTURE CAPITAL	508
HEDGE FUNDS	509
SOCIMI / REITS	510
6. TECHNOLOGY AND TELECOMMUNICATIONS	
TELECOMMUNICATION AND OTHERS	601
SOFTWARE AND ELECTRONICS	602
TECHNOLOGICAL HARDWARE AND EQUIPMENT	603

3.10.4 TIPO_OPER Table Content

Operation codes				
TIPO_OPER	SOURCE	TYPE OF SPECIAL OPERATION	TrdType [828]	TIPO_OPER
CV	All	Market	0	-
RT	All	Cancellation	24	-

MO	All	Trade amendment	24	9000
BW	CW	Block Trade	1	34
BP	TF, EQ, MA, LT	Block Trade	1	34
A1	TF, EQ, MA, LT	Communicated Application	1	1001
A4	TF, EQ, MA, LT	Authorised Application (volume)	1	1002
A5	TF, EQ, MA, LT	Authorised Application (corporate interest)	1	1003
A6	TF, EQ, MA, LT	Authorised Application (execution of contracts)	1	1004
A7	TF, EQ, MA, LT, CW	Authorised Application (other causes)	1	1005
T1	TF, EQ, MA, LT	Validation (communicated)	1	1006
T4	TF, EQ, MA, LT	Authorised validation (volume)	1	1007
T5	TF, EQ, MA, LT	Authorised validation (corporate interest)	1	1008
T6	TF, EQ, MA, LT	Authorised validation (execution of contracts)	1	1009
T7	TF, EQ, MA, LT	Authorised validation (other causes)	1	1010
E1	Todos	Transaction between members (communicated)	1	1011
E4	TF, EQ, MA, LT	Transaction between members (volume)	1	1013
E5	TF, EQ, MA, LT	Transaction between members (corporate interest)	1	1014
E6	TF, EQ, MA, LT	Transaction between members (execution of contracts)	1	1015
E7	TF, EQ, MA, LT	Transaction between members (other causes)	1	1016
AV	EQ, MA, LT	Application to cater for a linked position	1	1017
EV	EQ, MA, LT	Transaction to cater for a linked position	1	1018
EO	EQ, MA, LT	Transaction of exercise of options	1	1019
BC	TF, EQ, MA, LT	Agreed block trading market transaction	1	1020
OA	EQ, MA, LT	Public share bid offer type transaction	1	1021
OV	EQ, MA, LT	Public share Ask offer type transaction	1	1022
OS	EQ, MA, LT	Public share subscription offer type transaction	1	1023
DO	EQ, MA, LT	Special trades delta type	1	1024
BM	EQ, MA, LT	VWAP special trade	1	1025
CF	EQ, MA, LT	Forced buying	1	1026
VF	EQ, MA, LT	Forced selling	1	1027
NV	MA	Net asset value special trade D+1	1	1028
NJ	MA	Net asset value special trade D+2	1	1029
NK	MA	Net asset value special trade D+3	1	1030
AX	All	Application (without CCP)	1	1031
EX	All	Transaction (without CCP)	1	1032
FV	MA	Investment Fund D + 1	1	1033
FJ	MA	Investment Fund D + 2	1	1034
FK	MA	Investment Fund D + 3	1	1035
VW	EQ, TF, MA, LT	VWAP	1	1036