

File Specification – Bid and Ask Record – Equity Index Futures/Options

Updating history

No.	Issue Date	Details
1	2006-06	First issue
2	2013-09-30	Include files for After-Hours Trading Session
3	2019-04-01	Change field name, layout and description in Bid and ask data file, layout in Product master file



File Specification - Bid and Ask Record - Equity Index Futures/Options

Data structure - present (from June 2006)

The data provided in Bid and Ask Record – Equity Index Futures/Options are presented in 3 types of files:

- 1) Bid and ask data file;
- 2) Product master file; and
- 3) Contract master file.

The bid and ask data file is the core data file, while the latter two files provide static information on each contract covered in the tick-by-tick data file. For convenient data retrieval, the data files are provided in both fixed length text (.txt) and comma separated values (.csv). These 2 files only differ in format, but identical in data contents.

The data files are zipped into a single file for delivery. The following table lists out the data files to be found within the zipped file:

File name	Contents			
Day Trading Session				
yyyymmdd_01_BA.txt	Bid and ask data file for Equity Index			
yyyymmdd_01_BA.csv	Futures/Options (e.g. Hang Seng Index Futures) for the trading day <i>yyyymmdd</i> (e.g. 20060601 for 1 June 2006)			
yyyymmdd_01_MP.txt yyyymmdd_01_MP.csv	Product master file for Equity Index Futures/Options			
yyyymmdd_01_MC.txt	Contract master file for Equity Index			
yyyymmdd_01_MC.csv	Futures/Options			
After-Hours Trading Session				
yyyymmdd_01_BA_AHT.txt yyyymmdd_01_BA_AHT.csv	Bid and ask data file of After-Hours Trading Session for Equity Index Futures/Options (e.g. Hang Seng Index Futures) for the trading day <i>yyyymmdd</i> (e.g. 20130702 for 2 July 2013) The file for the last trading day of previous month is also available (Available from May 2013)			
yyyymmdd_01_MP.txt yyyymmdd_01_MP.csv (last trading day of the previous month)	Product master file for Equity Index Futures/Options for the last trading of previous month (for After Hours Trading Session) (Available from May 2013)			
yyyymmdd_01_MC.txt yyyymmdd_01_MC.csv (last trading day of the previous month)	Contract master file for Equity Index Futures/Options for the last trading of previous month (for After Hours Trading Session) (Available from May 2013)			



1. Bid and ask data file

Item no.	Field name	Layout	Description
1	CLASS_CODE	Character 6 bytes	Unique identifier assigned to the product class, such as "HSI" for Hang Seng Index
2	FUT_OPT	Character 1 bytes	To indicate if "Futures" or "Options" "F" - Futures "O' - Options
3	EXPIRY_DATE	Character 8 bytes	Expiry date of the contract. Format is YYYYMMDD where YYYY – year MM – month DD – date For example, "20031101" stand for 1 November 2003
4	STRIKE_PRC	Numeric 17 bytes Picture is 9(8).9(8)	Exercise price (or strike price) for "Options" contracts only Zero for "Futures" contracts
5	CALL_PUT	Character 1 bytes	"Call" / "Put" type for "Options" contracts "C" - Call Options "P" - Put Options " " - Futures
6	DATE	Character 8 bytes	Date of the trading day Format is YYYYMMDD where YYYY - year MM - month DD - day
7	TIME	Numeric 6 bytes	Time of the event which caused the change in bid/ask information. Format is HHMMSS where HH - hour MM - minute SS - second
8	BID_ASK	Character 1 bytes	To indicate if the best price presented in the next item (item 9) is a "Bid" price or an "Ask" Price "B" - Bid "A" - Ask
9	PRICE	Numeric 17 bytes Picture is 9(8).9(8)	Best price recorded at the time



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Item no.	Field name	Layout	Description
10	QUANTITY	Numeric 10 bytes Picture is 9(10)	Total number of contracts associated with the best price at the time

Total data length 75 bytes

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2. Product master file

Item no.	Field name	Layout	Description
1	CLASS_CODE	Character	Unique identifier assigned to the
		6 bytes	product class
2	FUT_OPT	Character	To indicate if "Futures" or "Options"
		1 bytes	"F" - Futures
3	DATE	Character	"O' - Options
3	DATE	8 bytes	Reference date for the product details provided in this record.
		O Dytes	Format is YYYYMMDD where
			YYYY - year
			MM - month
			DD - day
4	PROD_NAME	Character	Name of the derivatives product class.
		100bytes	Normally the name of the underlying
			stock.
5	DATE_FROM	Character	Launch date of the derivatives product
		8 bytes	Format is YYYYMMDD
			BLANK for class codes generated as the result of capital adjustment of the
			underlying stock.
6	DATE_TO	Character	Last trading date of the derivatives
		8 bytes	product.
		,	BLANK for active products.
7	EX_STYLE	Character	Exercise style of the derivatives
		1 byte	product
			"A" - American
8	CURRENCY	Character	"E" - European • Currency of the multiplier if it is a
0	CORRENCT	3 bytes	 Currency of the multiplier if it is a dollar amount; OR
		o bytes	 Trading currency of the underlying
			stock if the multiplier is not a dollar
			amount
			"HK " - Hong Kong Dollars
			"US " - US Dollars
			"YN " - Japanese Yen
			"WO" - Korean Won
0	MULTIPLIED	Nives seis	"NT " - New Taiwan Dollar
9	MULTIPLIER	Numeric	The standard contract size in the
		17 bytes Picture is	number of underlying shares
		9(8).9(8)	

Total data length 152 bytes



3. Contract master file

Item no.	Field name	Layout	Description
1	CLASS_CODE	Character 6 bytes	Unique identifier assigned to the product class
2	FUT_OPT	Character 1 bytes	To indicate if "Futures" or "Options" "F" - Futures "O' - Options
3	EXPIRY_MTH	Character 4 bytes	Expiry month of the contract. Format is YYMM where YY - last 2 digit of the year MM - month For example, "0311" stands for November 2003
4	STRIKE_PRC	Numeric 17 bytes Picture is 9(8).9(8)	Exercise price (or strike price) for "Options" contracts only Zero for "Futures" contracts
5	CALL_PUT	Character 1 bytes	"Call" / "Put" type for "Options" contracts "C" - Call Options "P" - Put Options " " - Futures
6	DATE	Character 8 bytes	Reference date for the contract details provided in this record. Format is YYYYMMDD where YYYY - year MM - month DD - day
7	EXPIRY_DATE	Character 8 bytes	Expiry date of the contract Format is YYYYMMDD
8	CON_SIZE	Numeric 17 bytes Picture is 9(8).9(8)	Number of underlying shares represented by a contract
9	DATE_FROM	Character 8 bytes	First trading date of the contract Format is YYYYMMDD
10	DATE_TO	Character 8 bytes	Last trading date of the contract Format is YYYYMMDD
11	Filler	Character 20 bytes	Reserved field

Total data length 98 bytes