

Updating history

No.	Issue Date	Details
1	2013-10-15	First issue
2	2014-04-08	Include files for RMB Currency Futures (After-Hours Trading Session)
3	2014-12-01	Include files for London Metal Mini Futures
4	2015-05-22	Exclude files for Gold Futures
5	2018-08-29	Include files for Gold Futures
6	2019-04-01	Change field name, layout and description in Tick- by-tick data file and layout in Product master file
7	2019-09-02	Change description of DATE_FROM in Contact Master File
8	2020-03-30	Add new field names COUNTRY CODE, MARKET CODE and COMMODITY CODE in Product Master file and Contract master file



This file specification applies to 2 data products:

- Tick-by-Tick Data All Futures/Options (Monthly File); and
- Tick-by-Tick Data All Futures/Options (Daily File)

Data structure - present (from 15 October 2013)

The data provided in Tick-by-Tick Data – All Futures/Options are presented in 3 types of files:

- 1) Tick-by-tick data file;
- 2) Product master file; and
- 3) Contract master file.

The tick-by-tick 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:

(Monthly File)

(Monthly File)				
File name	Contents			
Day Trading Session				
yyyymm_01_TR.txt yyyymm_01_TR.csv	Tick-by-tick data file for Equity Index Futures/Options (e.g. Hang Seng Index Futures) for the trading month <i>yyyymm</i> (e.g. 200304 for April 2003)			
<i>yyyymm_</i> 02_TR.txt	Tick-by-tick data file for Stock Futures/Options for			
yyyymm_02_TR.csv	the month yyyymm			
yyyymm_03_TR.txt	Tick-by-tick data file for Interest Rate Futures (e.g.			
yyyymm_03_TR.csv	3-Month HIBOR Futures) for the month <i>yyyymm</i>			
<i>yyyymm_</i> 04_TR.txt	Tick-by-tick data file for RMB Currency Futures for			
yyyymm_04_TR.csv	the month <i>yyyymm</i> (Available from September 2012)			
<i>yyyymm_</i> 05_TR.txt	Tick by tick data file for Gold Futures for the month			
yyyymm_05_TR.csv	yyyymm (Available from Oct 2008 – May 2015 and from August 2018)			
<i>yyyymm_</i> 06_TR.txt	Tick-by-tick data file for London Metal Mini Futures			
yyyymm_06_TR.csv	for the month <i>yyyymm</i> (Available from December 2014)			
<i>yyyymm</i> _01_MP.txt	Product master file for Equity Index			
yyyymm_01_MP.csv	Futures/Options			
<i>yyyymm_</i> 02_MP.txt	Product master file for Stock Futures/Options			
yyyymm_02_MP.csv				



yyyymm_03_MP.txt yyyymm_03_MP.csv	Product master file for Interest Rate Futures			
yyyymm_04_MP.txt yyyymm_04_MP.csv	Product master file for RMB Currency Futures (Available from September 2012)			
yyyymm_05_MP.txt yyyymm_05_MP.csv	Product master file for Gold Futures (Available from Oct 2008 – May 2015 and from August 2018)			
yyyymm_06_MP.txt yyyymm_06_MP.csv	Product master file for London Metal Mini Futures December 2014)			
yyyymm_01_MC.txt yyyymm_01_MC.csv	Contract master file for Equity Index Futures/Options			
yyyymm_02_MC.txt yyyymm_02_MC.csv	Contract master file for Stock Futures/Options			
yyyymm_03_MC.txt yyyymm_03_MC.csv	Contract master file for Interest Rate Futures			
yyyymm_04_MC.txt yyyymm_04_MC.csv	Contract master file for RMB Currency Futures (Available from September 2012)			
yyyymm_05_MC.txt yyyymm_05_MC.csv	Contract master file for Gold Futures (Available from Oct 2008 – May 2015 and from August 2018)			
yyyymm_06_MC.txt yyyymm_06_MC.csv	Contract master file for London Metal Mini Futures (Available from December 2014)			
After-Hours Trading Session				
yyyymm_01_TR_AHT.txt yyyymm_01_TR_AHT.csv	Tick-by-tick data file of After-Hours Trading Session for Equity Index Futures/Options (e.g. Hang Seng Index Futures) for the trading month <i>yyyymm</i> (e.g. 201305 for May 2013) (Available from April 2013)			
yyyymmdd_01_TR_AHT.txt yyyymmdd_01_TR_AHT.csv (last trading day of the previous month)	Tick-by-tick data file of After-Hours Trading Session for Equity Index Futures/Options (e.g. Hang Seng Index Futures) for the last trading day of the previous month <i>yyyymmdd</i> (e.g. 20130430 for 30 April 2013) (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 day of the previous month (for After-Hours Trading Session) (Available from May 2013)			
yyyymmdd_01_MC.txt yyyymmdd_01_MC.csv	Contract master file for Equity Index Futures/Options for the last trading day of the			



(last trading day of the previous month)	previous month (for After-Hours Trading Session) (Available from May 2013)
yyyymm_04_TR_AHT.txt yyyymm_04_TR_AHT.csv	Tick-by-tick data file of After-Hours Trading Session for RMB Currency Futures for the month yyyymm (Available from May 2014)
yyyymmdd_04_TR_AHT.txt yyyymmdd_04_TR_AHT.csv (last trading day of the previous month)	Tick-by-tick data file of After-Hours Trading Session for RMB Currency Futures for the last trading day of the previous month <i>yyyymmdd</i> (Available from May 2014)
yyyymmdd_04_MP.txt yyyymmdd_04_MP.csv (last trading day of the previous month)	Product master file for RMB Currency Futures for the last trading day of the previous month (for After- Hours Trading Session) (Available from May 2014)
yyyymmdd_04_MC.txt yyyymmdd_04_MC.csv (last trading day of the previous month)	Contract master file for RMB Currency Futures for the last trading day of the previous month (for After- Hours Trading Session) (Available from May 2014)
yyyymm_05_TR_AHT.txt yyyymm_05_TR_AHT.csv	Tick-by-tick data file of After-Hours Trading Session for Gold Futures for the month <i>yyyymm</i> (Available from August 2018)
yyyymmdd_05_TR_AHT.txt yyyymmdd_05_TR_AHT.csv (last trading day of the previous month)	Tick-by-tick data file of After-Hours Trading Session for Gold Futures for the last trading day of the previous month <i>yyyymmdd</i> (Available from August 2018)
yyyymmdd_05_MP.txt yyyymmdd_05_MP.csv (last trading day of the previous month)	Product master file for Gold Futures for the last trading day of the previous month (Available from August 2018)
yyyymmdd_05_MC.txt yyyymmdd_05_MC.csv (last trading day of the previous month)	Contract master file for Gold Futures for the last trading day of the previous month (Available from August 2018)
yyyymm_06_TR_AHT.txt yyyymm_06_TR_AHT.csv	Tick-by-tick data file of After-Hours Trading Session for London Metal Mini Futures for the month yyyymm (Available from December 2015)
yyyymmdd_06_TR_AHT.txt yyyymmdd_06_TR_AHT.csv (last trading day of the previous month)	Tick-by-tick data file of After-Hours Trading Session for London Metal Mini Futures for the last trading day of the previous month <i>yyyymmdd</i> (Available from December 2015)



yyyymmdd_06_MP.txt yyyymmdd_06_MP.csv (last trading day of the previous month)	Product master file for London Metal Mini Futures for the last trading day of the previous month (for After-Hours Trading Session) (Available from December 2015)
yyyymmdd_06_MC.txt yyyymmdd_06_MC.csv (last trading day of the previous month)	Contract master file for London Metal Mini Futures for the last trading day of the previous month (for After-Hours Trading Session) (Available from December 2015)



(Daily File)

Contents Day Trading Session	(Daily File)						
yyyymmdd_01_TR.txt Tick-by-tick data file for Equity Index Futures/Options (e.g. Hang Seng Index Futures) for the trading day yyyymmdd (e.g. 20130702 for 2 July 2013) yyyymmdd_02_TR.csv Tick-by-tick data file for Stock Futures/Options for the day yyyymmdd yyyymmdd_03_TR.txt yyyymmdd_03_TR.csv Tick-by-tick data file for Interest Rate Futures (e.g. 3-Month HIBOR Futures) for the day yyyymmdd yyyymmdd_04_TR.csv Tick-by-tick data file for RMB Currency Futures for the day yyyymmdd yyyymmdd_05_TR.csv Tick-by-tick data file for Gold Futures for the month yyyymmdd (Available from 23 Oct 2008 – 21 May 2015 and from 29 August 2018) yyyymmdd_05_TR.csv Tick-by-tick data file for London Metal Mini Futures for the month yyyymmdd_06_TR.csv Tick-by-tick data file for Stock Futures/Options Product master file for Equity Index Futures/Options yyyymmdd_01_MP.txt yyyymmdd_01_MP.csv Product master file for Stock Futures/Options yyyymmdd_03_MP.txt yyyymmdd_03_MP.txt yyyymmdd_03_MP.csv Product master file for Interest Rate Futures yyyymmdd_04_MP.csv Product master file for Gold Futures (Available from 23 Oct 2008 – 21 May 2015 and from 29 August 2018) yyyymmdd_05_MP.csv Product master file for London Metal Mini Futures yyyymmdd_06_MP.csv Product master file for London Metal Mini Futures yyyymmdd_06_MP.csv Product master file for London Metal Mini Futures yyyymmdd_01_MC.c	File name	Contents					
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yyyymmdd_05_MC.txt yyyymmdd_05_MC.csv	Contract master file for Gold Futures (Available from 23 Oct 2008 – 21 May 2015 and from 29 August 2018)
yyyymmdd_06_MC.txt yyyymmdd_06_MC.csv	Contract master file for London Metal Mini Futures
After-Hours Trading Session	
yyyymmdd_01_TR_AHT.txt yyyymmdd_01_TR_AHT.csv (previous trading day)	Tick-by-tick data file of After-Hours Trading Session for Equity Index Futures/Options (e.g. Hang Seng Index Futures) for the previous trading day <i>yyyymmdd</i> (e.g. 20130702 for 2 July 2013)
yyyymmdd_01_MP.txt yyyymmdd_01_MP.csv (previous trading day)	Product master file for Equity Index Futures/Options for the previous trading day (for After Hours Trading Session)
yyyymmdd_01_MC.txt yyyymmdd_01_MC.csv (previous trading day)	Contract master file for Equity Index Futures/Options for the previous trading day (for After Hours Trading Session)
yyyymmdd_04_TR_AHT.txt yyyymmdd_04_TR_AHT.csv (previous trading day)	Tick-by-tick data file for RMB Currency Futures for the previous trading day <i>yyyymmdd</i> (Available from 9 April 2014)
yyyymmdd_04_MP.txt yyyymmdd_04_MP.csv (previous trading day)	Product master file for RMB Currency Futures for the previous trading day (for After Hours Trading Session)
yyyymmdd_04_MC.txt yyyymmdd_04_MC.csv (previous trading day)	Contract master file for RMB Currency Futures for the previous trading day (for After Hours Trading Session)
yyyymmdd_05_TR_AHT.txt yyyymmdd_05_TR_AHT.csv (previous trading day)	Tick-by-tick data file for Gold Futures for the previous trading day <i>yyyymmdd</i> (Available from 29 August 2018)
yyyymmdd_05_MP.txt yyyymmdd_05_MP.csv (previous trading day)	Product master file for Gold Futures for the previous trading day (Available from 29 August 2018)
yyyymmdd_05_MC.txt yyyymmdd_05_MC.csv (previous trading day)	Contract master file for Gold Futures for the previous trading day (Available from 29 August 2018)
yyyymmdd_06_TR_AHT.txt yyyymmdd_06_TR_AHT.csv (previous trading day)	Tick-by-tick data file for London Metal Mini Futures for the previous trading day <i>yyyymmdd</i> (Available from 1 December 2014)



yyyymmdd_06_MP.txt yyyymmdd_06_MP.csv (previous trading day)	Product master file for London Metal Mini Futures for the previous trading day (for After Hours Trading Session)
yyyymmdd_06_MC.txt yyyymmdd_06_MC.csv (previous trading day)	Contract master file for London Metal Mini Futures for the previous trading day (for After Hours Trading Session)



1. Tick-by-tick 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	Character 6 bytes	Transaction timestamp Format is HHMMSS where HH - hour MM - minute SS - second
8	PRICE	Numeric 17 bytes Picture is 9(8).9(8)	Traded price of the transaction
9	QUANTITY	Numeric 8 bytes Picture is 9(8)	Number of contracts traded in the transaction



Item no.	Field name	Layout	Description
10	TRADE_TYPE	Character	000 – 002 : Normal trade
		3 bytes	003 – 006 : Block trade
			007 : Standard combination -
			order matching
			020 : Delta Hedge (Trade in
			pre-market opening)
			036 : Tailor-made combination
			043 : Combo versus Outright

Total data length 75 bytes



2. Product 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	DATE	Character 8 bytes	Reference date for the product details provided in this record. Format is YYYYMMDD where YYYY - year MM - month DD - day
4	PROD_NAME	Character 100 bytes	Name of the derivatives product class. Normally the name of the underlying stock.
5	DATE_FROM	Character 8 bytes	Launch date of the derivatives product Format is YYYYMMDD BLANK for class codes generated as the result of capital adjustment of the underlying stock.
6	DATE_TO	Character 8 bytes	Last trading date of the derivatives product. BLANK for active products.
7	EX_STYLE	Character 1 byte	Exercise style of the derivatives product "A" - American "E" - European
8	CURRENCY	Character 3 bytes	 Currency of the multiplier if it is a dollar amount; OR 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 "NT " - New Taiwan Dollar "CNY" - Chinese Renminbi
9	MULTIPLIER	Numeric 17 bytes Picture is 9(8).9(8)	The standard contract size in the number of underlying shares
10	COUNTRY CODE	Numeric 3 bytes Picture is 9(3)	Country code as country identifier of the product in HKATS



Item no.	Field name	Layout	Description
11	MARKET CODE	Numeric 4 bytes Picture is 9(4)	Market code of the product in HKATS
12	COMMODITY CODE	Numeric 6 bytes Picture is 9(6)	Commodity code as identifier of the product's underlying in HKATS

Total data length 165 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	 For weekly options, it is the launch date of the contract For others, it is the 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
12	COUNTRY CODE	Numeric 3 bytes Picture is 9(3)	Country code as country identifier of the product in HKATS



Item no.	Field name	Layout	Description
13	MARKET CODE	Numeric 4 bytes Picture is 9(4)	Market code of the product in HKATS
14	COMMODITY CODE	Numeric 6 bytes Picture is 9(6)	Commodity code as identifier of the product's underlying in HKATS

Total data length 111 bytes