ReferencePoint®
Derivatix Message Specification

The definitive reference data service, direct from the source

ASX Market Information
Information Solutions from the Source

Disclaimer

Information provided is for educational purposes and does not constitute financial product advice. You should obtain independent advice from an Australian financial services licensee before making any financial decisions. Although ASX Limited ABN 98 008 624 691 and its related bodies corporate ("ASX") has made every effort to ensure the accuracy of the information as at the date of publication, ASX does not give any warranty or representation as to the accuracy, reliability or completeness of the information. To the extent permitted by law, ASX and its employees, officers and contractors shall not be liable for any loss or damage arising in any way (including by way of negligence) from or in connection with any information provided or omitted or from any one acting or refraining to act in reliance on this information. This document is not a substitute for the Operating Rules of the relevant ASX entity and in the case of any inconsistency, the Operating Rules prevail.

ASX Ltd
ABN 98 008 624 691

20 Bridge Street, Sydney NSW 2000
PO Box H224
Australia Square NSW 1215

Telephone: +61 (02) 9227 0000
Facsimile: +61 (02) 9227 0859
Email: info@asx.com.au

Updated: May 2019
Version: 1.9

Contents

File Availability and Access

Derivatix files are produced daily and can be accessed via the ASX web portal ASXOnline – www.asxonline.com.au.

File Structure

This section describes each of the Derivatix files.

Collateral Prices

Collateral Prices are those used by ACH to value, at the end of each business day, collateral lodged with ACH by Clearing Participants. Prices quoted here are prior to the application of any haircuts[1]. A collateral price is provided for all securities approved as acceptable collateral that are currently being used to cover ACH margin obligations.

Reference Prices

Reference prices are used by ASX/ACH to identify the positions that are in the money and therefore will be exercised during the automatic exercise process. A reference price will be provided for all stocks and indexes over which ASX lists option series.

Open Interest

Open interest indicates the number of outstanding contracts. This information is indicated as **QU** (Open Interest – Exchange Traded Options & ASX Futures Contracts) **Message Type** with values disseminated for active Exchange Traded Options and ASX Futures Contracts on a daily basis.

Margin Prices Expanded

The expanded margin prices file (PRIEX.CSV) replaced the margin price file PRI.CSV in April 2013. PRIEX.CSV includes the 4 data fields contained in the margin price file PRI.CSV and additional data fields. Available from 8:30 pm every business day.

End of Day Span File

For information on the SPAN file, refer to this link: http://cme-ch.com/span/span4_xml_index.htm

Theoretical Quotes

Two quote messages are made available containing theoretical quote information for derivatives products. The information are indicated as **QA** (Exchange Traded Option Theoretical Quote) **Message Type** and **QB** (ASX Futures Contracts Theoretical Quote) **Message Type** which are disseminated five (5) times daily at the following approximate times:

From 10:30
From 12:30
From 14:30
From 16:32
From 17:55

- **QA – Exchange Traded Option Theoretical Quote:** QA messages are generated periodically throughout the course of the day to show a theoretical bid and ask based on the underlying security price. A QA message is disseminated for all series in all snapshots.

[1] A haircut is the reduction to the value of collateral calculated by the Options Clearing House (OCH) to allow for changes in the market value of the collateral.

- **QB – ASX Futures Contracts Theoretical Quote:** A QB message is disseminated for all series in all snapshots.

ASXOnline File Names

ASXOnline Description	Zip File Name	CSV File Name (where applicable, contained within the zipped file)
Collateral Prices	n/a	COLL.CSV
Open Interest	n/a	E19_____.CSV
Reference Prices	n/a	REF.CSV
Theoretical Prices 10:30	THP1_201.ZIP	thp_1_yyyymmdd.csv
Theoretical Prices 12:30	THP2_201.ZIP	thp_2_yyyymmdd.csv
Theoretical Prices 14:30	THP3_201.ZIP	thp_3_yyyymmdd.csv
Theoretical Prices 16:32	THP4_201.ZIP	thp_4_yyyymmdd.csv
Theoretical Prices 17:55	THP5_201.ZIP	thp_5_yyyymmdd.csv
File**	n/a	Margin Prices Expanded → PRIEX.CSV (replaced the margin price file PRI.CSV in April 2013)
	ASXCLEndofDayRiskParameterFileyymmdd.zip*	ASXCLEndofDayRiskParameterFileyymmdd.spn#

Notes:

Margin Parameters files – discontinued from 07 December 2012.

* For information on the SPAN file, refer to this link: http://cme-ch.com/span/span4_xml_index.htm
** File made available from 07 December 2012.

Message Types

The following two message types are applicable only to the Open Interest file:

GG (Date Label) **Message Type:** This is the first message type sent and represents the date on which this file was processed. This date is that of the previous trading day. The time field is zero filled.

GE (End of File) **Message Type:** This is the last message type sent and represents the end of file.

ASX Futures Contract Theoretical Quote (QB Message) – 55 Bytes

Field Name	Full Name/Description	Size	Column
Sequence Number	Sequence Number	6	A
Message Type	Message Type	2	B
Retransmit ID	Retransmit ID	1	C
Exchange ID	Exchange ID	1	D
Time	Time	6	E
ASX Code	ASX Code	6	F
Security Type	Security Type	2	G
Theoretical Bid Price	Theoretical Bid Price	9	H
Theoretical Ask Price	Theoretical Ask Price	9	I
Premium Discount	Premium Discount	9	J
Premium Discount Sign	Premium Discount Sign	1	K
Market ID	Unique identifier for trading facility	3	L

Collateral Prices (COLL.CSV)

Field Name	Full Name/Description	Column
ASXCode	ASX Code	A
SecurityDescription	Security Description	B
Price	Collateral Price	C

Exchange Traded Option Theoretical Quote (QA Message) - 49 Bytes

Field Name	Full Name/Description	Size	Column
Sequence Number	Sequence Number	6	A
Message Type	Message Type	2	B
Retransmit ID	Retransmit ID	1	C
Exchange ID	Exchange ID	1	D
Time	Time	6	E
ASX Code	ASX Code	6	F
Security Type	Security Type	2	G
Theoretical Bid Price	Theoretical Bid Price	9	H
Theoretical Ask Price	Theoretical Ask Price	9	I
Implied Volatility	Implied Volatility	4	J
Market ID	Unique identifier for trading facility	3	K

Margin Prices Expanded (PRIEX.CSV)

Field Name	Full Name/Description	Column
BusDate	Date of the file	A
ASXCode	ASX Code of the instrument	B
DerivProd	ASX Derivative Product Code	C
OptType	Option Type	D
DelMonth	Delivery Month	E
ExpDate	Derivative Expiry Date	F
Strike	Strike Price with implied decimals	G
StrikeText	Strike Price with explicit decimals	H
Version	Corporate Action Version Number	I
SPAN_Symbol	SPAN Symbol	J
SPAN_PE_Ind	SPAN Period End Indicator	K
SettlementPrice	Settlement Price with implied decimals	L
SttelementPriceText	Settlement Price with explicit decimals	M
Volatility	Volatility with implied decimals	N
VolatilityText	Volatility with explicit decimals	O
Currency	Currency	P
SPAN_Currency	SPAN Currency	Q
Underlying	**Underlying**	**R**
Multiplier	Multiplier	S
ExerStyle	Exercise Style	T
DerivProdType	Derivative Product Type	U
UnderProdType	Product Type of Underlying	V
SPAN CID	Span Contract ID	W
IsOTC	OTC (Over the Counter) Option Indicator	X
Listing Frequency	Option Listing Frequency	Y
DCS_Underlying	**ASX Derivatives Clearing System (DCS) underlying value**	**Z**
DCS_Deriv Prod	**ASX Derivatives Clearing System (DCS) derivative product code**	**AA**

Open Interest (Exchange Traded Option & ASX Futures Contract)

Field Name	Full Name/Description	Column
Sequence Number	Sequence Number	A
Message Type	Message Type	B
Retransmit ID	Retransmit ID	C
Time	Time	D
Issuer Code	Issuer Code	E
Security Code	Security Code	E
Security Type	Security Type	F
Open Interest	Open Interest	G

Reference Prices (REF.CSV)

Field Name	Full Name/Description	Column
Prod	Product	A
RefPrice	Reference Price (Last Settled Price)	B

Data Dictionary and Field Definitions

This section includes all the content fields for each Derivatix file/dataset described in the previous section. It includes a definition of all the fields and a dictionary describing each component of data.

ASX Futures Contracts & Exchange Traded Options Theoretical Quotes (QA & QB)

ASX Code	
Field Name	ASX Code (Issuer Code + Security Code)
Bytes	6
Format	Text
Description	A code allocated to identify securities and derivatives products. **For Exchange Traded Options:** The first three characters refer to the underlying security. The fourth and fifth characters used in the coding of each strike of an option series are randomly generated. The sixt character will be the numeral 7, 8 or 9. ASX Code convention for TORESS (TOtal REturn Single Stock) Options Unique, to distinguish them from existing Exchange Trade Options. a. The first two characters will denote/map to the first 2 characters of the underlying ASX Code i.e. BH for BHP b. The third character will be a set numerical value i.e. 8 --> BH8 c. The 4th and 5th characters are the clearing code which is randomly assigned by the ASX. Some codes will include a 6th numerical character which is also a clearing code randomly assigned by ASX. **For ASX Futures Contracts:** The first three characters refer to the underlying security or asset. The fourth and fifth characters are an identifier to the expiry/maturity of the contract (4th designates the year of maturity and the 5th represents the maturity month).
Valid Values	N/A

Exchange Identification	
Field Name	Exchange Identification
Bytes	1
Format	Numeric
Description	With the advent of automated trading, all Exchange Identifications are national.
Valid Values	1 – National (Automated Trading)

Implied Volatility	
Field Name	Implied Volatility
Bytes	4
Format	Alphanumeric 9(3)v9(1) (Expressed as a percentage to one decimal place)
Description	Is the volatility "implied" from the market price (premium) of an options series, assuming all other pricing parameter inputs are constant.
Valid Values	N/A

Market ID	
Bytes	3
Format	Numeric
Description	Unique identifier for trading facility.
Valid Values	001 = ASX TradeMatch 002 = ASX PureMatch® 100 = All ASX Market (ASX TradeMatch + ASX PureMatch®) Effective October 2011.

Message Type	
Field Name	Message Type
Bytes	2
Format	Text
Description	Identifies the type of message being transmitted and enables the subscriber to identify the message format.
Valid Values	QA for Exchange Traded Option QB for ASX Futures Contracts

Premium Discount	
Field Name	Premium Discount
Bytes	9
Format	Alphanumeric 9(7)v9(2) (Expressed as a value in points to 2 decimal places for Index Futures and as a value in dollars to 2 decimal places for Equity Futures)
Description	This is the difference between current ASX Futures Contract market price and the current physical index value (ASX Futures Contract market price – physical Index value).
Valid Values	N/A

Premium Discount Sign	
Field Name	Premium Discount Sign
Bytes	1
Format	Alphanumeric
Description	Indicates whether the Premium Discount is a positive or negative value.
Valid Values	N/A

Retransmit ID	
Field Name	Retransmit ID
Bytes	1
Format	Numeric
Description	Indicates whether the message sent is as a result of a first-time service request or a retransmission request.
Valid Values	0 = message sent in response to a normal service request 1 = message sent in response to a retransmission request

Security Type	
Field Name	Security Type
Bytes	2
Format	Numeric
Description	The type of Security as defined by the issuing body.
Valid Values	87 = Australian Wool Futures 90 = Local Call Options 91 = Local Put Options 92 = International Call Options 93 = International Put Options 94 = ASX Futures Call Options 95 = Low Exercise Price Options (LEPOs) 96 = ASX Futures Put Options 97 = ASX Futures Call Options 99 = Australian Futures Strip Note: Trading of Security Type 85 (Australian Grain Futures) has been migrated from ASX Trade trading platform to ASX Trade 24 trading platform on 29 August 2011. Hence, information on this type of security is no longer disseminated in ReferencePoint Derivatix product.

Sequence Number	
Field Name	Sequence Number
Bytes	6
Format	Numeric
Description	A sequential number allocated by the gateway system and specific to a particular session with a given Subscriber. Unless a retransmission request has been made, the first data message sent shall always contain the sequence number “000001”. Subsequent messages will have the sequence number incremented by one.
Valid Values	000001 to 999999

Theoretical Ask Price	
Field Name	Theoretical Ask Price
Bytes	9
Format	Numeric 9(5)v9(4) (Expressed as cents to four decimal places.) For Security Types 85, 87, 90 to 97 (Options, LEPO's and Futures), the Price is expressed as dollars to four decimal places.
Description	A theoretical price which mimics the (real) ask price at which someone is prepared to sell shares. The theoretical price is a calculated value which gives an indication of the price for a stock at a particular point in time.
Valid Values	N/A

Theoretical Bid Price	
Field Name	Theoretical Bid Price
Bytes	9
Format	Numeric 9(5)v9(4) (Expressed as cents to four decimal places.) For Security Types 85, 87, 90 to 97 (Options, LEPO's and Futures), the Price is expressed as dollars to four decimal places.
Description	A theoretical price which mimics the (real) bid price at which someone is prepared to buy shares. The theoretical price is a calculated value which gives an indication of the price for a stock at a particular point in time.
Valid Values	N/A

Collateral Prices

ASX Code	
Field Name	ASX Code
Bytes	6
Format	Text
Description	The unique code assigned by ASX that identifies a particular instrument series.
Valid Values	N/A

Price	
Field Name	Price (Collateral Price)
Bytes	8
Format	Numeric • Expressed as dollars and cents up to four decimal places for each underlying security or share. • Expressed as points for each underlying index.
Description	Previous business day's settlement price for the traded entity.
Valid Values	N/A

Security Description	
Field Name	Security Description
Bytes	20
Format	Text
Description	This field holds the name of the group of the collateral. Calls or Puts over the same underlying security are termed "classes" of options. For example, all call and put options listed over BHP shares, regardless of Exercise Price and Expiry Day, form one class of option.
Valid Values	N/A

Open Interest

Issuer Code + Security Code (ASX Code)	
Field Name	ASX Code
Bytes	6
Format	Text
Description	A code allocated to identify securities and derivatives products. For Exchange Traded Options: the first three characters refer to the underlying security. The fourth and fifth characters used in the coding of each strike of an option series are randomly generated. For ASX Futures Contracts: the first three characters refer to the underlying security or asset. The fourth and fifth characters are an identifier to the expiry/maturity of the contract (4th designates the year of maturity and the 5th represents the maturity month).
Valid Values	N/A

Message Type	
Field Name	Message Type
Bytes	2
Format	Text
Description	Identifies the type of message being transmitted and enables the subscriber to identify the message format
Valid Values	QU

Open Interest	
Field Name	Open Interest
Bytes	5
Format	Numeric
Description	The number of outstanding contracts in a particular class or series existing in the exchange traded options or shares markets.
Valid Values	N/A

Retransmit ID	
Field Name	Retransmit ID
Bytes	1
Format	Numeric
Description	Indicates whether the message sent is as a result of a first-time service request or a retransmission request.
Valid Values	0 = message sent in response to a normal service request 1 = message sent in response to a retransmission request

Security Type	
Field Name	Security Type
Bytes	2
Format	Numeric
Description	The type of Security as defined by the issuing body.
Valid Values	85 = Australian Grain Futures* 87 = Australian Wool Futures 90 = Local Call Options 91 = Local Put Options 92 = International Call Options 93 = International Put Options 94 = ASX Futures Call Options 95 = Low Exercise Price Options (LEPOs) 96 = ASX Futures Put Options 97 = ASX Futures Call Options 99 = Australian Futures Strip * Trading of this security type has been migrated from ASX Trade trading platform to ASX Trade 24 trading platform on 29 August 2011. Hence, information on this type of security is no longer disseminated in ReferencePoint Derivatix product.

Sequence Number	
Field Name	Sequence Number
Bytes	6
Format	Numeric
Description	A sequential number allocated by the gateway system and specific to a particular session with a given Subscriber. Unless a retransmission request has been made, the first data message sent shall always contain the sequence number “000001”. Subsequent messages will have the sequence number incremented by one.
Valid Values	1 to 999999

Time	
Field Name	Time
Bytes	6
Format	Numeric HHMMSS where: HH = Hours MM = Minutes SS = Seconds
Description	The time that the record was entered into the computer system to be disseminated.
Valid Values	N/A

Reference Prices

Prod	
Field Name	Product
Bytes	6
Format	Text
Description	A code used by ASX to identify a single product.
Valid Values	N/A

RefPrice	
Field Name	Reference Price (also known as Last Settled Price)
Bytes	8
Format	Numeric • Expressed in dollars and cents up to two decimal places for equity underlying. • Expressed in points up to two decimal places for index underlying.
Description	Previous business day's settlement price for the traded entity.
Valid Values	N/A

Margin Prices Expanded (PRIEX.CSV)

ASXCode	
Field Name	ASX Code
Bytes	6
Format	Alphanumeric
Description	The unique code assigned by ASX that identifies a particular instrument series.
Valid Values	N/A

BusDate	
Field Name	Business Date
Bytes	10
Format	Numeric dd/mm/yyyy where: dd = day mm = month yyyy = century, year
Description	The business date of the file.
Valid Values	N/A

Currency	
Field Name	Currency
Bytes	3
Format	Alphabetic
Description	The ISO code of the currency in which SettlementPriceText and StrikeText data field values are expressed.
Valid Values	ISO Currency Codes Example: AUD = Australian $ (local/home currency)

DCS_DerivProd	
Field Name	DCS_DerivProd
Bytes	6
Format	Alphanumeric
Description	The ASX Derivatives Clearing System derivative product code value.
Valid Values	N/A

DCS_Underlying	
Field Name	DCS_Underlying
Bytes	6
Format	Alphanumeric
Description	The ASX Derivatives Clearing System underlying value ASX Code.
Valid Values	N/A

DelMonth	
Field Name	Delivery Month
Bytes	10
Format	Numeric dd/mm/yyyy where: dd = day (although provided as part of the date format, this field will always contain the first day of the month value i.e. "01") mm = month yyyy = century, year
Description	The month in which delivery can be given or taken for a contract on traded instrument.
Valid Values	N/A

DerivProd	
Field Name	ASX Derivative Product Code
Bytes	6
Format	Alphanumeric
Description	A unique code used by ASX to identify a derivative product.
Valid Values	N/A

DerivProdType	
Field Name	Derivative Product Type
Bytes	2
Format	Alphabetic
Description	Derivative product type identification.
Valid Values	FU = Future LE = LEPO OF = Option on Future OI = Option on Index OS = Equity Option

ExerStyle	
Field Name	Exercise Style
Bytes	1
Format	Alphabetic
Description	Indicates the instrument's exercise style.
Valid Values	" " = Not Applicable A = American (exercise any time up to expiry) E = European (exercise on expiry date only)

ExpDate	
Field Name	Derivative Expiry Date
Bytes	10
Format	Numeric dd/mm/yyyy where: dd = day mm = month yyyy = century, year
Description	The day on which all unexercised options in a particular series terminates.
Valid Values	N/A

IsOTC	
Field Name	Is OTC
Bytes	1
Format	Alphabetic
Description	A flag that indicates if an option contract is OTC (Over the Counter) or not.
Valid Values	Y if a contract is OTC N if a contract is not OTC

ListingFrequency	
Field Name	Listing Frequency
Bytes	3
Format	Alphanumeric
Description	Denotes if an option is a monthly or weekly contract.
Valid Values	Possible Values M = Monthly Contract W1 = Weekly contract with next 1 week expiry W2 = Weekly contract with next 2 week expiry W3 = Weekly contract with next 3 week expiry W4 = Weekly contract with next 4 week expiry W5 = Weekly contract with next 5 week expiry " " or Empty for OTC (Over the Counter

Multiplier	
Field Name	Multiplier
Bytes	8
Format	Numeric Expressed in the following units of measurement: Wool Futures — Kilograms (i.e. 2500 kgs/contract unit) Equity Options — Units of Shares (i.e. 100 shares/contract, 104 shares/contract, 17 shares/contract) Index Options and Futures — in $ (i.e. a display of 10 represents $10 – means each index point is equal to $10)
Description	This is the number by which the underlying value being traded must be multiplied by in order to determine the dollar value of the contract.
Valid Values	N/A

OptType	
Field Name	Option Type
Bytes	1
Format	Alphabetic
Description	Represents the type of option product.
Valid Values	" " = space or empty for those products where the option type field is not applicable C = Call Option [an option contract that entitles the taker (buyer) to buy a fixed number of the underlying asset at a stated price on or before a fixed expiry date] P = Put Option [an option contract that entitles the taker (buyer) to sell a fixed number of underlying asset at a stated price on or before a fixed expiry date]

SettlementPrice	
Field Name	SettlementPrice
Bytes	10
Format	Numeric - Expressed in AUD and cents up to 4 decimal places (implied decimal) for equity underlying. Examples: 10 is = $0.0010 or 0.10 cent 150600 is = $15.0600 29250 is = $2.9250 - Expressed in AUD and cents up to 4 decimal (implied decimal) places for Grains underlying. Example: 101800 is = $10.1800 - Expressed in points up to 3 decimal (implied decimal) places for index underlying. Example: 1451600 is 1451.600 points
Description	Business day's settlement price for the traded instrument.
Valid Values	N/A

SettlementPriceText	
Field Name	SettlementPriceText (this is the formatted Settlement Price)
Bytes	10
Format	Numeric - Expressed in AUD and cents up to 4 decimal places (explicit decimal) for equity underlying. Examples: 0.10 cent is displayed as 0.001 AUD 15.06 is displayed as 15.06 AUD 2.925 is displayed as 2.925 - Expressed in Australian dollars and cents up to 4 decimal (implied decimal) places for Grains underlying. Example: AUD 10.18 is displayed as 10.18 - Expressed in points up to 3 decimal places for index underlying. Example: 1451.6 in points
Description	Business day's settlement price for the traded instrument.
Valid Values	N/A

SPAN_Currency	
Field Name	SPAN Currency Code
Bytes	3
Format	Alphabetic
Description	The ISO code of the SPAN currency data field value is expressed.
Valid Values	AUD = Australian $ (local/home currency) AUC = Australian Cents (local/home currency)

SPAN_CID	
Field Name	SPAN_CID
Bytes	12
Format	Numeric
Description	SPAN Contract ID
Valid Values	n/a

SPAN_Currency	
Field Name	SPAN Currency Code
Bytes	3
Format	Alphabetic
Description	The ISO code of the SPAN currency data field values is expressed.
Valid Values	AUD = Australian $ (local/home currency) AUC = Australian Cents (local/home currency)

SPAN_PE_Ind	
Field Name	SPAN Period End Indicator
Bytes	2
Format	Numeric
Description	A unique two digit ID used to distinguish between option series which expire on the same month.
Valid Values	N/A

SPAN_Symbol	
Field Name	SPAN Symbol
Bytes	6
Format	Alphanumeric
Description	This is the equivalent of the <pfCode> tag within the SPAN file. The <pfCode> is simply the "ASXCode" if relating to an equity, and is a concatenation of "ASXCode" and a SPAN specific derivative identifier code if relating to a derivative (i.e. BHP**E**).
Valid Values	Derivative identifier codes: A American Option E European Option CA OTC European Option CE OTC American Option L LEPO M OTC LEPO F Futures

Strike	
Field Name	Strike Price
Bytes	10
Format	Numeric For stocks: Expressed in **cents**. Examples: 4351 is = 4,351 cents 360 is = 360 cents For Index: Expressed in points with implied decimal of 1. Example: 53250 is = 5,325.0 points
Description	This is the predetermined buying or selling price for the underlying asset if the option is exercised. • For options over securities, this is the exercise price (the price at which the underlying asset may be bought or sold by exercise of the option) of the option contract • For option over an index, this is the value of the index represented by the contract, expressed in points. This value, in conjunction with the multiplier, determines the dollar value of the option. An *Index Multiplier* is a specified number of dollars per point e.g. AUD $10/point
Valid Values	N/A

StrikeText	
Field Name	Strike Text (this is the formatted Strike Price; with explicit decimals)
Bytes	10
Format	Numeric For stocks: Expressed in **$ and cents** with explicit decimal places of up to 2. Examples: 43.51 is = $43.51 3.60 is = $3.60 For Index: Expressed in points. Example: 5325 is = 5,325 points
Description	The formatted strike price associated with the traded derivative product.
Valid Values	N/A

Version	
Field Name	Corporate Action Version Number
Bytes	3
Format	Numeric
Description	Version number of the corporate action of the traded entity. This relates to the number of corporate events relating to the traded instrument. If = “0”, security has not undergone a corporate action If >= 1, the security has undergone a corporate action, with the number representing the number of corporate actions which have been applied to the security.
Valid Values	0 to 999

Volatility	
Field Name	Volatility
Bytes	10
Format	Numeric Expressed in units up to 6 decimal places. Values to be multiplied with 100 to get the percentage equivalent.
Description	The volatility (a measure of the expected amount of fluctuation in the price of the particular securities) of the underlying asset implied by the market price of the option.
Valid Values	N/A

VolatilityText	
Field Name	Volatility
Bytes	10
Format	Numeric Expressed in % up to 5 decimal places.
Description	The volatility (a measure of the expected amount of fluctuation in the price of the particular securities) of the underlying asset implied by the market price of the option.
Valid Values	N/A

Underlying	
Field Name	Underlying
Bytes	6
Format	Alphanumeric
Description	**The SPAN underlying value ASX Code.**
Valid Values	N/A

UnderProdType	
Field Name	Product Type of Underlying
Bytes	2
Format	Alphabetic
Description	Product type identification of the underlying.
Valid Values	FU = Future S = Stock SI = Index

General Information

This section provides general information applicable to the various messages.

Total Return Single Stock (TORESS) Options and LEPOs

TORESS options are call only option products that have 2 distinguishing features which differentiate them from standard options traded in ASX. They are:

- Ordinary dividends are adjusted for via a cash transfer between the option seller and buyer. This features allows for the better pricing of these options due to the removal of forecast dividend in pricing.
- The options are cash settled upon exercise as opposed to physical delivery. This feature removes some issues which clearers have expressed around Cash market Margining (CMM) on the back of exercise.

ASX Code convention for TORESS Options:

Unique, to distinguish them from existing Exchange Trade Options.

d. The first two characters denotes/maps to the first 2 characters of the underlying ASX Code i.e. BH for BHP
e. The third character is a set of numerical value i.e. 8 --> BH8
f. The 4th and 5th characters are the clearing code which is randomly assigned by the ASX. Some codes will include a 6th numerical character which is also a clearing code randomly assigned by ASX.

First TORESS options were listed on 30 November 2015 and trading on these securities commenced on 01 December 2015.

Weekly and Serial Options (introduced in October 2016)

Single Stock Weekly ETO

Single Stock Weekly ETOs have the same characteristics as Single Stock ETOs, other than the expiration date and modified billing. Single Stock Weekly ETOs are listed on a Thursday for trading on a Friday.

Single Stock Weekly LEPO

Single Stock Weekly LEPOs have the same characteristics as Single Stock LEPOs, other than the expiration date and modified billing. Single Stock Weekly LEPOs are listed on a Thursday for trading on the Friday.

XJO Weekly ETO

XJO Weekly ETOs have the characteristics as XJO Monthly ETOs, other than expiration date. XJO Weekly ETOs are listed on a Thursday for trading on the Friday.

XJO Weekly LEPO

New XJO Weekly LEPOs have the same characteristics as standard LEPOs, other than the expiration date. They are listed on a Thursday for trading on the Friday.

XJO Serial ETO

XJO Serial ETOs are an extension to the XJO Serial ETO expiries, by listing two additional contract months. This resulted in the XJO ETO Class having a monthly maturity for the front 6 months, as opposed to having only the front 3 months listed.

XJO Serial LEPO

XJO Serial LEPOs' are an extension to the XJO Serial LEPO expiries by listing two additional contract months. This resulted in the XJO LEPO Class having a monthly maturity for the front 6 months, as opposed to having only the front 3 months listed.

Manual Updates History

Date	Bulletin	Page	Changes Made
Updates since manual version 1.4 (July 2008)			
02/05/11 to 13/05/11	06/11	22	Update to Multiplier data field definition on Mar.csv file.
29/08/11	17/11	13, 21, 25	Migration of ASX Grains Futures & Options from ASX Trade trading platform to ASX Trade24 trading platform.
20/06/11	20/11	9 13	Added Market ID data field in QA and QB messages. Added market ID data field definition.
23/06/11		 5-6 9 12-15	Added details on theoreticals files content. • File Structure • Message Types • ASX Futures Contracts & Exchange Traded Options Theoretical Quotes
21/05/12	22/12	7	Theoreticals csv files compressed to a Zipped file and file names changes.
07/06/12	25/12	5, 7, 10, 11, 17, 24	Discontinuation of MAR.CSV & THEO.CSV files. Supply of 2 new files.
01/11/12	41/12	7	• MarginPrices.CSV (replaced by expanded margin price PRIEX.CSV) & Span.zip files. Files availability times change from 6:30 pm to 7:30 pm.
19/11/12	44/12	7	• MAR.CSV to be discontinued effective 07/12/12. • MarginPrices.CSV (PRI.CSV) to be discontinued effective 07/12/12. • Introduction of expanded MarginPrices.CSV effective 07/12/12.
12/12/12	48/12	7	• Confirmation of margin prices files names PRI.CSV & PRIEX.CSV (expanded).
22/07/13	29/13, 33/13	5 & 6	• Theoretical quotes files content change.
30/11/15	43/15	12 28	• Dissemination of TORESS Options. • Updated ASX Code data field description. • Added section General Information and sub-section
17/10/16	27/16	29 – 30 28 10, 22, 25	• Introduction of Weekly and Serial Equity Options: Disseminated in the QU Message, End of Day Span file and PRIEX.CSV. • Changed usage of the Underlying data field to display the SPAN underlying value. • Addition of DCS_Underlying and DCS_DerivProd data fields to the margin price file PRIEX.CSV.
06/05/19	19/19	5	• Updated Expanded Margin Price File (PRIEX.CSV) Availability Time (from 8:30 pm).

Contact Details

ReferencePoint Content & System Support

Subscribers with data content and production problem queries can contact the ASX Customer Technical Support Team for customer support from 06:00 am Monday to 8:00 Saturday (AEST) on the following numbers:

1800 663 053
+61 2 9227 0372

OR via email to:

cts@asx.com.au

Subscribers requiring after-hours support for production problems can receive assistance on +61 2 9227 0821. Data content queries are not supported after hours.

Written queries may be addressed to:

Market Access
ASX Limited
P.O. Box H224
Australia Square
SYDNEY NSW 1215

Or sent by facsimile to: +61 2 9227 0859

ASX Market Information

Should you wish to contact us to receive further information or discuss any aspects of ReferencePoint, please contact ASX Market Information:

Houda Harb – Product Manager, Technical & Information Services (+612) 9227 0422
Edwina Glinoga – Product Manager, Information Services (+612) 9227 0761

Email information.services@asx.com.au
Web www.asx.com.au