

ASX ReferencePoint[®]

Daily Official List

Manual



Contents

Introduction	3
Files Format and Access	3
Files Composition	3
ASX ReferencePoint® Daily Official List Product Service Option Codes	3
Files Availability	5
Operating Sequences	10
Message Types	10
Message Structure	14
Message Header Structure	14
Field Definitions	32
General Information	63
Basis of Quotation	63
Exchange Traded Options (ETO) Securities Coding Conventions	63
Representation of ASX Index Futures Contract Prices	63
Interpretation Guidelines for Shares Per Contract/Contract Multiplier/ Index Multiplier Data Field	63
Total Return Single Stock (TORESS) Options and LEPOs	64
Valuation Price, Opening Theory Market and other data fields in the QP, QK & QY Messages	64
Exchange Traded Options Price Calculation	65
Security Type Table	67
Access via ASX Online	71
System Introduction	71
Access and Availability	71
Website Details	71
Security Identification	71
Resources	71
Document History	72
Contact Us	73

Introduction

ASX ReferencePoint® is a financial information service providing daily market information from the Australian Security Exchange's single integrated trading platform known as ASX Trade and the Market Announcements Platform (MAP).

Files Format and Access

ASX ReferencePoint® Daily Official List files are available in:

- Comma separated (CSV) format via internet connection utilising ASX Online B2B web portal. Some of the CSV files are compressed using Zip compression.

For details about ASX Online, refer to the “Becoming an Internet Subscriber (ASX Online)” section in this document.

The order of Data Fields appearing for each message is listed in the [Message Structure](#) section of this document with each message having a schematic indicating the order of Data Fields within the message.

Note: In ASX ReferencePoint® CSV files, the Issuer Code and Security Code fields are amalgamated into one field, despite being identified in the Message Structure section as separate fields.

The definition of each Data Field is supplied in [Field Definition](#) section of this manual

Files Composition

Daily Official List includes files that provide hourly snapshots during on market trading and evening snapshots. The snapshots contain market information on indices, equities, loan securities, warrants, exchange traded options, futures contracts and market summaries. A snapshot is a 'summary' record of events occurring up to the point of snapshot generation. It contains some trade based information such as first, high, low, last and cumulative volume and value and quote based information such as best bid and best ask. It also contains market overview information such as market & index volumes and turnover, and top moving securities.

A snapshot of market activity is generated hourly from 11:00 hours on ASX ReferencePoint® Daily Official List Intraday service: at 11:00, 12:00, 13:00 (End of Morning Snapshot), 14:00, 15:00, 16:00 (Afternoon Equity Snapshot), 17:00 (Afternoon Derivatives Snapshot), 19:00 (End of Day Snapshot) and at 20:00 (End of Day Derivatives Snapshot).

Any planned reduction or extension in on-market trading and the associated times of snapshot generation are advised via an ASX Notice.

ASX ReferencePoint® Daily Official List Product Service Option Codes

In late 2011, ASX introduced a new trading facility ASX PureMatch® which served as a separate order book operating in parallel to the existing ASX equity trade execution facility (ASX TradeMatch). This ceases to be in operation.

Below table contains information on the different service options made available to subscribers.

Trading Facility	Service Options		
	Derivatives Snapshots	Equity Snapshots	Market Summary
ASX TradeMatch (existing trading facility)	D04	D01	D06

ASX PureMatch® (new trading facility)	currently not applicable	D07	D08
All ASX Market (ASX Tradematch*/ASX VolumeMatch ¹ + ASX PureMatch®)	currently not applicable	D17	D10

¹ ASX VolumeMatch is not represented in the product as a separate trading facility. Trades executed under ASX VolumeMatch is reported under ASX TradeMatch. ASX VolumeMatch trades are reported with the “VM” trade condition code attached to it.

Daily Official List Intraday Messages

ASX TradeMatch		ASX PureMatch		All ASX Markets (ASX TradeMatch** + ASX PureMatch)		Message Composition of Snapshot File
Snapshot Name	File Name/ Session Indicator	Snapshot Name	File Name/ Session Indicator	Snapshot Name	File Name/ Session Indicator	
D01 11:00	D01_1100.CSV	D07 11:00	D07_1100.CSV			GG, QG, QY, QK, IB, GE
D01 12:00	D01_1200.CSV	D07 12:00	D07_1200.CSV			GG, QG, QY, QK, IB, GE
D01 13:00	D01_000M.CSV	D07 13:00	D07_000M.CSV			GG, QG, QY, QK, IB, GE
D01 14:00	D01_1400.CSV	D07 14:00	D07_1400.CSV			GG, QG, QY, QK, IB, GE
D01 15:00	D01_1500.CSV	D07 15:00	D07_1500.CSV			GG, QG, QY, QK, IB, GE
D01 16:00*	D01_000A.CSV	D07 16:00*	D07_000A.CSV	D17 16:00*	D17_000A.CSV	GG, QG, QY, QK, IB, GE
D01 19:00*	D01_000E.CSV	D07 19:00*	D07_000E.CSV	D17 19:00*	D17_000E.CSV	GG, QG, QY, QK, GE
D04 11:00	D04_1100.ZIP expands to d04_1100.csv					GG, QS, QX, QZ, GE
D04 12:00	D04_1200.ZIP expands to d04_1200.csv					GG, QS, QX, QZ, GE
D04 13:00	D04_000M.ZIP expands to d04_000m.csv					GG, QS, QX, QZ, GE

ASX TradeMatch		ASX PureMatch		All ASX Markets (ASX TradeMatch** + ASX PureMatch)		Message Composition of Snapshot File
Snapshot Name	File Name/ Session Indicator	Snapshot Name	File Name/ Session Indicator	Snapshot Name	File Name/ Session Indicator	
D04 14:00	D04_1400.ZIP expands to d04_1400.csv					GG, QS, QX, QZ, GE
ASX TradeMatch		ASX PureMatch		All ASX Markets (ASX TradeMatch** + ASX PureMatch)		Message Composition of Snapshot File
D04 15:00	D04_1500.ZIP expands to d04_1500.csv					GG, QS, QX, QZ, GE
D04 17:00*	D04_00AD.ZIP expands to d04_00ad.csv					GG, QS, QX, QZ, GE
D04 19:00	D04_000E.ZIP expands to d04_000e.csv					GG, QS, QX, QZ, GE
D04 20:00*	D04_00ED.ZIP expands to d04_00ed.csv					GG, QS, QX, QZ, GE
D06 11:00	D06_1100.CSV	D08 11:00	D08_1100.CSV	D10 11:00	D10_1100.CSV	GG, MA, MI, MW, MV, MM, ML, MH, MO, MN, MT, MK, MF, ME, GE

ASX TradeMatch		ASX PureMatch		All ASX Markets (ASX TradeMatch** + ASX PureMatch)		Message Composition of Snapshot File
Snapshot Name	File Name/ Session Indicator	Snapshot Name	File Name/ Session Indicator	Snapshot Name	File Name/ Session Indicator	
D06 12:00	D06_1200.CSV	D08 12:00	D08_1200.CSV	D10 12:00	D10_1200.CSV	GG, MA, MI, MW, MV, MM, ML, MH, MO, MN, MT, MK, MF, ME, GE
D06 13:00	D06_000M.CSV	D08 13:00	D08_000M.CSV	D10 13:00	D10_000M.CSV	GG, MA, MI, MW, MV, MM, ML, MH, MO, MN, MT, MK, MF, ME, GE
D06 14:00	D06_1400.CSV	D08 14:00	D08_1400.CSV	D10 14:00	D10_1400.CSV	GG, MA, MI, MW, MV, MM, ML, MH, MO, MN, MT, MK, MF, ME, GE
D06 15:00	D06_1500.CSV	D08 15:00	D08_1500.CSV	D10 15:00	D10_1500.CSV	GG, MA, MI, MW, MV, MM, ML, MH, MO, MN, MT, MK, MF, ME, GE
D06 16:00	D06_000A.CSV	D08 16:00	D08_000A.CSV	D10 16:00	D10_000A.CSV	GG, MA, MI, MW, MV, MM, ML, MH, MO, MN, MT, MK, MF, ME, GE
D06 19:00*	D06_000E.CSV	D08 19:00*	D08_000E.CSV	D10 19:00*	D10_000E.CSV	GG, MA, MI, MW, MV, MM, ML, MH, MO, MN, MT, MK, MF, ME, GE

* These files are available in the End of Day product offering.

** ASX VolumeMatch is not represented in the product as a separate trading facility. Trades executed under ASX VolumeMatch are reported under ASX TradeMatch.

Daily Official List End of Day Messages Details

Snapshot Name	Session Indicator/ (File Name)	Message Composition of Snapshot File	Time Usually Available From
Afternoon Equities Snapshot	000A	QY – Equity Snapshot QK – Screen Trade Load Security Snapshot IB – Index Snapshot	16:20 hours
Afternoon Derivatives Snapshot	00AD	QX – ASX Futures Contract Snapshot QZ – Exchange Traded Option Snapshot	17:05 hours
End of Day Snapshot	000E	QY – Equity Snapshot QK – Screen Trade Load Security Snapshot QX – ASX Futures Contract Snapshot QZ – Exchange Traded Option Snapshot MF – ASX Futures Contract Summary MH – Interest Rate Market (IRM)/ Loan Movers, Top 20 MI – Index Top Movers Summary MK – Hybrids and Convertible Notes Turnover Summary ML – Market Movers – Entire Market Summary MM – Market Movers – ASX100 Summary MN – Top Trading Exchange Traded Options Summary MO – Exchange Traded Options Turnover Summary MT – Market Turnover Summary MV – Index Turnover, Volume and Trading Summary MW – Warrant Summary	19:15 hours
End of Day Derivatives Snapshot	00ED (formerly referred to as 1700)	QX – ASX Futures Contract Snapshot QZ – Exchange Traded Option Snapshot	20:05 hours
Initialisation Quotes	Qlyymmdd.ZIP expands to qiymmdd.csv Where: Yy = year Mm = month Dd = day	QP – Initialisation Quotes: Equities, Loan Securities & Exchange Traded Funds QQ – Initialisation Quotes: Exchange Traded Options & ASX Futures Contracts	T + 1, 01:00 hours
Official Closing Index Values	D33 (D33 .CSV)	IC – Index Share Price Values	T+1, 09:30 hours
mFund Price	D11_000E	QN – mFund Price file	From 7:00 am

Operating Sequences

This section outlines the operating sequence for Daily Official List. It includes such data as message types and dissemination times. References to operating times are based on Australian Eastern Standard Time (AEST). Subscribers should make allowances in their systems for changes in operating times as a result of daylight saving. Such changes are released in ASX Market Information Bulletins in order to notify subscribers.

Message Types

In the Snapshot messages, securities are grouped into Equities (QG, QY), Screen Traded Loan securities¹ (QI, QK), Exchange Traded Options (QL, QZ) and ASX Futures Contracts (QS, QX). Snapshots of S&P/ASX share price indices are also available and are disseminated on the IB – Index Snapshot message. The End of Day share price index values are disseminated in the IC – Share Price Index Values message.

The Index Snapshot contains all Index values at the time of snapshot generation. In addition, end of day summary information on the following: market sector and index volumes and turnover (MT, MV); security and index top movers (MM, ML, MI); Option and Warrant summaries (MO, MN, MW), ASX Futures Contract summaries (MF, MP, MQ) and Loan (Interest Rate) security turnover and movement (MK, MH) is also available on ASX ReferencePoint® .

Lastly, initialisation quote files QQ and QP are generated after the close of market on the day indicated by the date label and are applicable for the next trading day. The bid, ask, number of buyers and number of sellers are zero filled on the QP message type.

Initialisation quotes are disseminated for active securities as well as suspended securities.

General Message Information

Type	Name	Comments
GE	End of Transmission	When no more messages are to be sent, a GE message type is disseminated.
GG	Date Label	The first message type sent for each service option code, indicating the date for which the data is applicable. The time field is zero filled.

Index Information

Type	Name	Comments
IB	Index Snapshot	This message is only available on the intraday service. Message type disseminated on hourly snapshots during on market trading .It contains the S&P/ASX Share Price Index values at the time of snapshot generation together with the highest and lowest Share Price Index point values for each index so far that business day, as calculated continuously by Standard and Poor's (S&P).
IC	Share Price Index Values	This message is only available on the end of day service. Message type disseminated containing the official closing S&P/ASX Share Price Index values. This file is usually available from 9:30 AM on T+1.

Market Summary Information

Type	Name	Comments
MA	Start of Market Summary	Disseminated to indicate the commencement of the market summary and the time and date of the summary.
ME	End of Market Summary	Disseminated to indicate that all market summary messages for that hour have been received.
MH	Interest Rate Market (IRM) / Loan Movers – Top 20 Summary	Message type disseminated on hourly summaries during on market trading and on the end of day summary for the Top 20 IRM (Loan) traded securities by price movements and the number of IRM (Loan) securities rising, falling or steady in price. This message covers information on Security Types 21 (Hybrids), Security Type 51 (Convertible Notes), Security Type 71 (Screen Traded Unsecured Notes), Security Type 72 (Floating Rate Notes) & Security Type 81 (Government Bonds).
MI	Index Top Movers Summary	Message type disseminated on hourly summaries during on market trading and on the end of day summary. The message contains the Index rises and falls from the start of day (e.g. 23 Indices are up on start of day and 28 are down). It also shows the top five Index movers from start of day by percentage movement.
MK	Hybrids & Convertible Notes Turnover Summary	Message type disseminated on hourly summaries during on market trading and on the end of day summary for Security Type 21 (Hybrids) & Security Type 51 (Convertible Notes).
ML	Market Movers – Entire Market Summary	Disseminated on hourly summaries during on-market trading and on the end of day summary. The message contains the top 20 ASX Trade traded securities by price movement. It also lists the number of securities rising, falling or steady in price. Instruments that never traded since its quotation up to the business day of the file have their prices display defaulted to zero. These are not included in the determination of price steadies for the day.
MM	Market Movers – ASX100 Summary	Disseminated on hourly summaries during on-market trading and on the end of day summary. The message contains the top 20 ASX Trade traded securities by price movement within the ASX100 index. It also lists the number of securities rising, falling or steady in price within the ASX100 Index.
MN	Top Trading Exchange Traded Options Summary	Disseminated on hourly summaries during on-market trading and on the end of day summary. The message contains the top ten Exchange Traded Option classes by volume of contracts traded, broken down into calls and puts. (Class refers collectively to the contracts issued over a single underlying product, e.g. BHP).
MO	Exchange Traded Options Turnover Summary	Disseminated on hourly summaries during on-market trading and on the end of day summary.

Type	Name	Comments
		The message contains the total Exchange Traded Options (including LEPOs) turnover, number of trades and volume of contracts broken down by calls and puts.
MT	Market Turnover Summary	<p>Disseminated on hourly summaries during on-market trading and on the end of day summary.</p> <p>The message contains the total Equity turnover, number of trades and volume traded over the ASX Trade system and also this total broken down by sector. (Mining, Industrial and Oil & Gas plus Exempt Foreign Industrial, Exempt Foreign Mining and Exempt Foreign Oil & Gas).</p>
MV	Index Turnover, Volume and Trading Summary	<p>Disseminated on hourly summaries during on-market trading and on the end of day summary.</p> <p>The message contains a summary of the turnover, number of trades and volume of shares traded in each Index group.</p>
MW	Warrant Summary	<p>Disseminated on hourly summaries during on-market trading and on the end of day summary.</p> <p>The message contains the total warrant turnover, number of trades and volume traded over the ASX Trade system. It also shows the rises, falls and steadies for Warrant securities and the top five Warrants by price movement.</p> <p>Instruments that never traded since its quotation up to the business day of the file have their prices display defaulted to zero. These are not included in the determination of price steadies</p>

Snapshot Information

Type	Name	Comments
QG	Beginning of Equity Summary	Disseminated during the morning, afternoon and end of day snapshots to indicate that Equity snapshot records are to follow.
QI	Beginning of Screen Traded Loan Security Summary	Disseminated during the morning, afternoon and end of day snapshots to indicate that Screen Traded Loan security snapshots are to follow.
QK	Screen Traded Loan Security (Dollar Traded) Snapshots	<p>Message types which contain such market information as first, high, low, last, last traded date, last traded time, cumulative volume, cumulative value, bid, ask, number of buyers and number of sellers for Screen Traded Loan (dollar traded) securities.</p> <p>These message types are transmitted during the morning, afternoon and end of day snapshots.</p>
QL	Beginning of Exchange Traded Options Summary	Disseminated as part of the morning, afternoon and end of day snapshots to indicate that Exchange Traded Options snapshots are to follow.
QN	mFund Price file	Disseminated as an end of day file.
QP	Initialization Quote – Equities, Loan Securities & Exchange Traded Funds	<p>These messages are generated after the close of market on the day indicated by the date label and are applicable for the next trading day. The bid, ask, number of buyers and number sellers are zero filled.</p> <p>QP Initialization Quotes are disseminated for active securities as well as suspended securities.</p> <p>QQ Initialization Quotes are disseminated for active securities.</p>
QQ	Initialization Quote–Exchange Traded Options and ASX Futures Contracts	<p>QP Initialization Quotes are disseminated for active securities as well as suspended securities.</p> <p>QQ Initialization Quotes are disseminated for active securities.</p>
QX	ASX Futures Contracts Snapshot	<p>Disseminated during the morning, afternoon derivatives and evening snapshots for all ASX Futures Contract securities.</p> <p>These messages contain such market information as first, high, low, last, last traded date, last traded time, cumulative contract volume, cumulative contract value, bid, ask, number of contracts bid and number of contracts offered. This message may carry a theoretical value in cases where a stock has not had trade /quote activity during the day and has therefore only had theoretical values calculated for it throughout the trading day.</p>
QY	Equity Snapshot	<p>Disseminated during the morning, afternoon equity and evening snapshots for all Equity securities.</p> <p>These messages contain such market information as first, high, low, last, last traded date, last traded time, cumulative volume, cumulative value, bid, ask, number of buyers and number of sellers.</p>
QZ	Exchange Traded Option Snapshot	<p>Disseminated during the morning, afternoon derivatives and evening snapshots for Exchange Traded Options.</p> <p>These messages contain such market information as first, high, low, last, last traded date, last traded time, cumulative volume, cumulative value, bid, ask, number of buyers/contracts and number of sellers/contracts. This message may carry a theoretical value in cases where a stock has not had trade / quote activity during the day and has therefore only had theoretical values calculated for it throughout the trading day.</p>

Message Structure

This section describes the message types.

Message Header Structure

The standard message header attached to all messages has the following structure:

Name	Size	Comments
Sequence Number	6	
Message Type	2	
Retransmit ID	1	

Every message is assigned a sequence number. The sequence number is incremented by one for each message sent. Sequence numbers will range from 1 to 999999 with wrap-around.

The message type describes the data being sent.

The Retransmit ID is zero filled for all messages.

GE – End of Transmission				15 bytes
Name	Column	Size	Comments	
Sequence Number	A	6		
Message Type	B	2	GE	
Retransmit ID	C	1		
Time	D	6		

GG – Date Label				23 bytes
Name	Column	Size	Comments	
Sequence Number	A	6		
Message Type	B	2	GG	
Retransmit ID	C	1		
Time	D	6		
Date	E	8		

* Applicable to ASX Online CSV file subscribers. It is the location of the field if the file is opened in a spreadsheet.

IB – Index Snapshot			Variable – maximum 498 bytes
Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	IB
Retransmit ID	C	1	
Time	D	6	
Count	E	2	
Continue Marker	F	1	<p>This message is capable of disseminating up to 20 values.</p> <p>In order to disseminate more than 20 Index values, more than one message would be sent with each holding a maximum of 20 values and a Continue Marker '0'.</p> <p>The exception to this would be the final message in this series which would carry up to a maximum of 20 values and a Continue Marker of '1'.</p>
Index Code		3	
Current Share Price Index Values		7	
Share Price Index High		7	
Share Price Index Low		7	

These fields occur **Count** times – maximum 20

IC – Share Price Index Values			Variable – maximum 358 bytes
Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	IC
Retransmit ID	C	1	
Time	D	6	
Count	E	2	
Continue Marker	F	1	<p>This message is capable of disseminating up to 20 values.</p> <p>In order to disseminate more than 20 Index values, more than one message would be sent with each holding a maximum of 20 values and a Continue Marker '0'.</p> <p>The exception to this would be the final message in this series which would carry up to a maximum of 20 values and a Continue Marker of '1'.</p>
Index Code		3	
Reserved Field (Zero Values)		7	These fields occur Count times – maximum 20
Share Price Index Values		7	

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

MA – Start Of Market Summary Message			23 bytes
Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	MA
Retransmit ID	C	1	
Time	D	6	
Date	E	8	

ME – End Of Market Summary Message			23 bytes
Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	ME
Retransmit ID	C	1	
Time	D	6	
Date	E	8	

MH – Interest Rate Market Movers – Top 20 Summary				450 bytes
Name	Column	Size	Comments	
Sequence Number	A	6		
Message Type	B	2	MH	
Retransmit ID	C	1		
Rises	D	6		
Falls	E	6		
Steadies	F	6		
ASX Code		6		
Change		9	These fields occur 20 times	
Percentage Change		5		
Change Sign		1		
Market ID		3	001 (D06)	

MI – Index Top Movers Summary				96 bytes
Name	Column	Size	Comments	
Sequence Number	A	6		
Message Type	B	2	MI	
Retransmit ID	C	1		
Index Rises	D	6		
Index Falls	E	6		
Index Code		3		
Index Change		6	These fields occur 5 times	
Percentage Change		5		
Change Sign		1		

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

MK – Hybrids & Convertible Notes Turnover Summary				42 bytes
Name	Column	Size	Comments	
Sequence Number	A	6		
Message Type	B	2	MK	
Retransmit ID	C	1		
Turnover	D	12		
Volume	E	12		
Trades	F	6		
Market ID		3	001 (D06)	

ML – Market Movers – Entire Market Summary				450 bytes
Name	Column	Size	Comments	
Sequence Number	A	6		
Message Type	B	2	ML	
Retransmit ID	C	1		
Rises	D	6		
Falls	E	6		
Stadies	F	6		
ASX Code		6		
Change		9	These fields occur 20 times	
Percentage Change		5		
Change Sign		1		
Market ID		3	001 (D06)	

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

MM – Market Movers – Top 20/ASX100 Summary				450 bytes
Name	Column	Size	Comments	
Sequence Number	A	6		
Message Type	B	2	MM	
Retransmit ID	C	1		
Rises	D	6		
Falls	E	6		
Steadies	F	6		
ASX Code		6		
Change		9	These fields occur 20 times	
Percentage Change		5		
Change Sign		1		
Market ID		3	001 (D06)	

MN – Top Trading Exchange Traded Options Summary				372 bytes
Name	Column	Size	Comments	
Sequence Number	A	6		
Message Type	B	2	MN	
Retransmit ID	C	1		
Class Code		3		
Underlying Product		6		
Total Contracts Traded		9	These fields occur 10 times	
Call Contracts Traded		9		
Put Contracts Traded		9		
Market ID		3	001 (D06)	

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

MO – Exchange Traded Options Turnover Summary				72 bytes
Name	Column	Size	Comments	
Sequence Number	A	6		
Message Type	B	2	MO	
Retransmit ID	C	1		
Calls Turnover	D	12		
Puts Turnover	E	12		
Call Contracts Traded	F	9		
Put Contracts Traded	G	9		
Call Trades	H	9		
Put Trades	I	9		
Market ID		3	001 (D06)	

MT – Market Turnover Summary				255 bytes
Name	Column	Size	Comments	
Sequence Number	A	6		
Message Type	B	2	MT	
Retransmit ID	C	1		
Turnover	D	12		
Volume	E	12		
Trades	F	9		
Sector Code		2		
Sector Turnover		12	These fields occur 6 times	
Sector Volume		12		
Sector Trades		9		

Name	Column	Size	Comments
Market ID		3	001 (D06)

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

MV – Index Turnover, Volume and Trading Summary			Variable – maximum 417 bytes
Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	MV
Retransmit ID	C	1	
Count	D	2	
Continue Marker	E	1	This message is capable of disseminating up to 15 values. Therefore, in order to disseminate more than 15 Index values, more than one message would be sent, each holding a maximum of 15 values and a Continue Marker '0'. The exception to this would be the final message in this series which would carry up to a maximum of 15 values and a Continue Marker of '1'.
Index Code		3	
Turnover		12	These fields occur Count times – maximum 15
Volume		12	

MW – Warrant Summary			150 bytes
Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	MW
Retransmit ID	C	1	
Turnover	D	12	
Volume	E	12	
Trades	F	9	
ASX Code		6	These fields occur 5 times
Change		9	

Name	Column	Size	Comments
Percentage Change		5	
Change Sign		1	
Market ID		3	001 (D06))

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

QG – Beginning of Equity Summary 16 bytes

Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	QG
Retransmit ID	C	1	
Exchange ID	D	1	
Time	E	6	

QI – Beginning of Loan Security Summary 16 bytes

Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	QI
Retransmit ID	C	1	
Exchange ID	D	1	
Time	E	6	

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

QK – Loan Security Snapshot – Dollar Traded				157 bytes
Name	Column	Size	Comments	
Sequence Number	A	6		
Message Type	B	2	QK	
Retransmit ID	C	1		
Exchange ID	D	1		
Time	E	6		
Issuer Code	F	3		
Security Code	F	3		
Security Type	G	2		
Bid Price	H	9		
Number of Buyers	I	3	Zero filled from September 4, 2006	
Ask Price	J	9		
Number of Sellers	K	3	Zero filled from September 4, 2006	
First	L	9		
High	M	9		
Low	N	9		
Last/Previous Last	O	9		
Last Traded Date	P	8		
Last Traded Time	Q	6		
Cumulative Sales Volume	R	12		
Cumulative Sales Value	S	14		
Valuation Price	T	9	Formerly the “Latest Theory Market” data field. Changed to Valuation Price data field effective 15 July 2013. Values to relevant security types are disseminated only on Signal D01.	
Valuation Price Footnote	U	1	Formerly the “Latest Theory Market Footnote” data field. Changed to Valuation Price Footnote data field effective 15 July 2013. Values to relevant security types are disseminated only on Signal D01.	

Name	Column	Size	Comments
Reserved	V	9	Reserved for future use. Currently zero filled.
Basis of Quotation	W	10	
Special Market Indicator	X	1	
Market ID	Y	3	

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

QL – Beginning Of Exchange Traded Options Summary 16 bytes

Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	QL
Retransmit ID	C	1	
Exchange ID	D	1	
Time	E	6	

QN – mFund Prices Message 79 bytes

Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	QN
Retransmit ID	C	1	
Time	D	6	
Date	E	8	
Application Price	F	17	
Price Date	G	10	
mFund Code	H	12	
Redemption Price	I	17	

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

QP – Initialisation Quotes for Equity, Loan Security & Exchange Traded Funds 114 bytes

Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	QP
Retransmit ID	C	1	
Exchange ID	D	1	
Time	E	6	
Issuer Code	F	3	
Security Code	F	3	
Security Type	G	2	
Bid Price	H	9	
Number of Buyers	I	3	Zero filled from September 4, 2006
Ask Price	J	9	
Number of Sellers	K	3	Zero filled from September 4, 2006
Opening Theory Market	L	9	
Opening Theory Market Footnote	M	1	
Previous Last	N	9	
Valuation Price	O	9	
Valuation Yield	P	5	Currently blank filled.
Valuation Footnote	Q	1	
Board Section Number	R	2	Zero filled
Price/Yield Indicator	S	1	Obsolete
Last Traded Date	T	8	
Exercise Price	U	9	
Reserved	V	9	Reserved for future use. Currently zero filled.
Market ID		3	001 (D06)

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

QQ – Initialisation Quotes for Exchange Traded Options & ASX Futures Contracts 82 bytes

Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	QQ
Retransmit ID	C	1	
Exchange ID	D	1	
Time	E	6	
Issuer Code	F	3	
Security Code	F	3	
Security Type	G	2	
Margin Price	H	9	
Open Interest	I	9	
Number of Days to Expiry	J	5	
Exercise Price	K	9	
Board Section Number	L	2	Zero filled.
Contract Multiplier/Shares Per Contract/Index Multiplier	M	12	
Reserved	N	9	Reserved for future use. Currently zero filled.
Market ID		3	001 (D06)

QX – ASX Futures Contract Snapshot**175 bytes**

Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	QX
Retransmit ID	C	1	
Exchange ID	D	1	
Time	E	6	

Name	Column	Size	Comments
Issuer Code	F	3	
Security Code	F	3	
Security Type	G	2	
Bid Price	H	9	
Reserved (old location of Number of Contracts Bid)	I	3	Zero filled
Ask Price	J	9	
Reserved (old location of Number of Contracts Offered)	K	3	Zero filled
First	L	9	
High	M	9	
Low	N	9	
Last	O	9	
Last Traded Date	P	8	
Last Traded Time	Q	6	
Cumulative Contract Volume	R	12	
Cumulative Contract Value	S	14	
Margin Price	T	9	
Reserved	U	9	Reserved for future use. Currently zero filled.
Reserved	V	10	Reserved for future use. Currently blank filled.
Market ID	W	3	
Number of Contracts Bid	X	10	
Number of Contracts Offered	Y	10	

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

QY – Equity Snapshot			166 bytes
Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	QY
Retransmit ID	C	1	

Name	Column	Size	Comments
Exchange ID	D	1	
Time	E	6	
Issuer Code	F	3	
Security Code	F	3	
Security Type	G	2	
Bid Price	H	9	
Number of Buyers	I	3	Zero filled from September 4, 2006 for Fixed Income and Warrant Securities. Zero filled from October 2, 2006 for Equity Securities.
Ask Price	J	9	
Number of Sellers	K	3	Zero filled from September 4, 2006 for Fixed Income and Warrant Securities. Zero filled from October 2, 2006 for Equity Securities.
First	L	9	
High	M	9	
Low	N	9	
Last/Previous Last	O	9	
Last Traded Date	P	8	
Last Traded Time	Q	6	
Cumulative Sales Volume	R	12	
Cumulative Sales Value	S	14	
Valuation Price	T	9	This field position used to be for the "Latest Theory Market" data field. The change was effective December 5, 2005.
Valuation Price Footnote	U	1	This field position used to be for the "Latest Theory Market Footnote" data field. The change was effective December 5, 2005.
Reserved	V	10	Reserved for future use. Currently zero filled.
Basis of Quotation	W	1	
Special Market Indicator	X	9	

Name	Column	Size	Comments
Reserved (price data field)	Y	3	
Market ID			

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

QZ – Exchange Traded Option Snapshot 199 bytes

Name	Column	Size	Comments
Sequence Number	A	6	
Message Type	B	2	QZ
Retransmit ID	C	1	
Exchange ID	D	1	
Time	E	6	
Issuer Code	F	3	
Security Code	F	3	
Security Type	G	2	
Bid Price	H	9	
Reserved (old location of Number of Contracts Bid)	I	3	Zero filled
Ask Price	J	9	
Reserved (old location of Number of Contracts Offered)	K	3	Zero filled
Broker/Contract Indicator	L	1	
First	M	9	
High	N	9	
Low	O	9	
Last/Previous Last	P	9	
Last Traded Date	Q	8	
Last Traded Time	R	6	
Cumulative Sales Volume	S	12	

Name	Column	Size	Comments
Cumulative Sales Value	T	14	
Intrinsic Value	U	9	Intrinsic Value for Options with unquoted underlying security is blank filled
Time Value	V	9	Time Value for Options with unquoted underlying security is blank filled
Number of Days to Expiry	W	5	
Margin Price	X	9	
Reserved	Y	9	Reserved for future use. Currently zero filled.
Reserved	Z	10	Reserved for future use. Currently blank filled.
Market ID	AA	3	
Number of Buyers/Contracts	AB	10	
Number of Sellers/Contracts	AC	10	

* Applicable to ASX Online CSV file subscribers. This is the location of the field if the file is opened in a spreadsheet.

Field Definitions

The following alphabetic listing of all the field definitions referred to the preceding section provides details of bytes, format, description and valid values.

Please note that for all field definitions:

- Whenever a field shows a blank, it contains the ASCII space character (hex 20)
- All numeric fields are right-justified, zero filled and have implied decimal places.
- All alphabetic fields are left-justified and blank filled, unless otherwise stated.
- All times disseminated are based on a 24 hour clock.

Application Price	
BYTES	17
FORMAT	Numeric 9(11)V9(6) Expressed as dollars and cents up to six (6) decimal places.
DESCRIPTION	The last unit price declared by the fund issuer to purchase one unit in a fund.
VALID VALUES	N/A

Ask Price	
BYTES	9
FORMAT	Numeric 9(5)V9(4) Expressed as cents to four decimal places. For Security Types 11, 12, 33, 34, 35, 48, 49, 57, 58, 85, 87 and 90 to 97 (high denomination equities and warrants & structured products, options and LEPO's), the Price is expressed as dollars and cents to four decimal places. Numeric 9(7) v 9(2) For Security Types 39, 52, 59 & 65 (Ultra High Denomination securities), the Price is expressed as dollars and cents to two decimal places.
DESCRIPTION	The price at which someone is prepared to sell shares.
VALID VALUES	N/A

ASX Code																																	
BYTES:	6																																
FORMAT:	Alphanumeric																																
DESCRIPTION:	<p>A code allocated to identify securities and derivative products.</p> <p>Equities, Interest Rate Securities, Convertible Notes and Company Options: The first three characters (Issuer Code) are a code assigned to the issuing body, and the last three characters (Security Code) are a code allocated to each security pertaining to an issuing body. In the case of ordinary shares, the last three characters are generally blank filled. In relation to equity security codes, a period of 10 years needs to have elapsed before a given code may be reused.</p> <p>Interest Rate Securities: The first three characters refer to the underlying security. The fourth character H indicates interest rate security, the fifth character is an alpha character - from A to Z, and the sixth character may be "empty/blank" or an alpha character - from A to Z.</p> <p>For Exchange-traded Australian Government Bonds (AGBs), the following coding convention applies:</p> <table border="0"> <tr> <td>First Two Characters</td> <td>GS</td> </tr> <tr> <td>3rd Character</td> <td>B for Fixed coupon , I for Indexed</td> </tr> <tr> <td>4th Character</td> <td>month of maturity</td> </tr> <tr> <td></td> <td>Values:</td> </tr> <tr> <td></td> <td>A or B for January</td> <td>C or D for February</td> </tr> <tr> <td></td> <td>E or F for March</td> <td>G or H for April</td> </tr> <tr> <td></td> <td>I or J for May</td> <td>K or L for June</td> </tr> <tr> <td></td> <td>M or N for July</td> <td>O or P for August</td> </tr> <tr> <td></td> <td>Q or R for September</td> <td>S or T for October</td> </tr> <tr> <td></td> <td>U or V for November</td> <td>W or X for December</td> </tr> </table> <p>5th & 6th Characters year of maturity (i.e. 2014 will be represented as 14)</p> <p>For Corporate Bond CDIs, the following coding convention applies:</p> <table border="0"> <tr> <td>First three Characters</td> <td>Issuer Code</td> </tr> <tr> <td>4th & 5th Characters</td> <td>Year of maturity (2017 will be represented as 17)</td> </tr> <tr> <td>6th Character</td> <td>month of maturity (i.e. "A" or "B" represents January, "C" or "D" represents February, etc...)</td> </tr> </table> <p>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 sixth character will be the numeral 7, 8 or 9.</p> <p>ASX Code convention for TORESS (TOtal REturn Single Stock) Options Unique, to distinguish them from existing Exchange Trade Options. The first two characters denote/map to the first 2 characters of the underlying ASX Code i.e. BH for BHP The third character is a set numerical value i.e. 8 --> BH8</p>	First Two Characters	GS	3 rd Character	B for Fixed coupon , I for Indexed	4 th Character	month of maturity		Values:		A or B for January	C or D for February		E or F for March	G or H for April		I or J for May	K or L for June		M or N for July	O or P for August		Q or R for September	S or T for October		U or V for November	W or X for December	First three Characters	Issuer Code	4 th & 5 th Characters	Year of maturity (2017 will be represented as 17)	6 th Character	month of maturity (i.e. "A" or "B" represents January, "C" or "D" represents February, etc...)
First Two Characters	GS																																
3 rd Character	B for Fixed coupon , I for Indexed																																
4 th Character	month of maturity																																
	Values:																																
	A or B for January	C or D for February																															
	E or F for March	G or H for April																															
	I or J for May	K or L for June																															
	M or N for July	O or P for August																															
	Q or R for September	S or T for October																															
	U or V for November	W or X for December																															
First three Characters	Issuer Code																																
4 th & 5 th Characters	Year of maturity (2017 will be represented as 17)																																
6 th Character	month of maturity (i.e. "A" or "B" represents January, "C" or "D" represents February, etc...)																																

DESCRIPTION CONTINUATION: 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.

ASX Futures Contracts:

The first three characters refer to the underlying security. The fourth and fifth characters are an identifier for the expiry / maturity of the contract.

Warrants:

The first three characters refer to the underlying security; the fourth character signifying a warrant group may be a 'W', 'V', 'U', 'I', 'J', 'S', 'E', 'X', 'Y', 'Z', 'D', 'K', 'L', 'M', 'F' or 'Q'; the fifth character indicates the warrant issuer; and the sixth character identifies the warrant series.

Warrant Group	Description
B	Bonus Certificate
W, V, U or T	Trading style warrants including equity calls and puts, index calls and puts, currency calls and puts.
I or J	Instalments
S	Self Funding Instalments (SFIs) and Structured Investment Products (SIPs – these include longer-term investment style products).
E	Endowments
X, Y or Z	Warrants which have significantly different structures to any of the above. Examples include equity and index knock-out warrants and Capital Plus Warrants.
D	This is a temporary code assigned to a warrant trading on a deferred settlement basis. The warrant will revert to its original code on the first day of normal trading after deferred settlement ends.
K or Q	MINIs
L	Guaranteed Stop Loss (GSL) MINIs
M	Listed Protected Loan
F	New Product Types

In relation to warrant codes, there is no standard time frame for reusing codes that have previously been allocated to securities. This means that a given ASX warrant code may be reused within a period of 2 months.

Un-sponsored Depository Receipts (UDRs)

UDRS will have four (4) characters ASX/Trading Code; the first 3 characters do not reference the issuing body.

The first character of the ASX/Trading code will be “U” signifying it is a UDR.

The 2nd to 4th characters of the code reference the underlying stock on the home exchange.

VALID VALUES N/A

Basis of Quotation

BYTES: 2, occurs 5 times

FORMAT: Alphabetic

DESCRIPTION: Indicates the status under which a Security is quoted. In the case of trades, this field will only contain a value if special permission has been granted by the respective committees to trade outside the current stated Basis of Quotation.

Note: Standard trading incorporates a fixed settlement period of 3 business days (T+3).

VALID VALUES:	Code	Description	Code	Description
	CB	Cum Bonus Issue	PU	Protection Unavailable
	CC	Cum Capital Return	RA	Receiver Appointed
	CD	Cum Dividend	RE	Reconstructed
	CE	Cum Entitlement	XB	Ex Bonus Issue
	CF	Cum Takeover Offer	XC	Ex Capital Return
	CL	Call Due	XD	Ex Dividend
	CM	Cum Premium Return	XE	Ex Entitlement
	CP	Call Paid	XF	Ex Takeover Offer
	CQ	Cum Equal Access Buy-back	XI	Ex Interest
	CR	Cum Rights Issue	XM	Ex Premium Return
	CT	Conditional Trading	XQ	Ex Equal Access Buy back
	CZ	Cum Priority	XR	Ex Rights Issue
	NX	New Ex Interest	XZ	Ex Non Pro-Rata Balance
	PA	Protection Available		

Bid Price

BYTES: 9

FORMAT: Numeric 9(5)V9(4)
Expressed as cents to four decimal places.
For Security Types 11, 12, 33, 34, 35, 48, 49, 57, 58, 85, 87 and 90 to 97 (high denomination equities and warrants & structured products, options and LEPO's), the Price is expressed as dollars and cents to four decimal places.

Numeric 9(7) v 9(2)

For Security Types 39, 52, 59 & 65 (Ultra High Denomination securities), the Price is expressed as dollars and cents to two decimal places.

DESCRIPTION: The price at which someone is prepared to buy shares.

VALID VALUES: N/A

Broker/Contract Indicator

BYTES:	1
FORMAT:	Numeric
DESCRIPTION:	An Indicator which determines if: (a) Number of buyers or (b) Number of Contracts are represented in the quote message.
VALID VALUES:	0 = Contracts 1 = Brokers

Call Trades

BYTES:	9
FORMAT:	Numeric
DESCRIPTION:	The total number of trades in Exchange Traded Call Options so far that business day. The figure includes Call LEPO's.
VALID VALUES:	N/A

Call Turnover

BYTES:	12
FORMAT:	Numeric Expressed as dollars
DESCRIPTION:	The total value of trades in Exchange Traded Call Options so far that business day. This value reflects the price multiplied by number of contracts traded multiplied by the number of shares per contract or contract multiplier. This figure includes Call LEPO's.
VALID VALUES:	N/A

Call Contracts Traded

BYTES:	9
FORMAT:	Numeric
DESCRIPTION:	The total number of contracts traded in Exchange Traded Call Options so far that business day. This figure includes Call LEPO's.
VALID VALUES:	N/A

Change	
BYTES:	9
FORMAT:	Numeric 9(5)V9(4) Expressed as cents to four decimal places. For Security Types 11, 12, 33, 34, 35, 48, 49, 57, 58, 85, 87 and 90 to 97 (high denomination equities and warrants & structured products, options and LEPO's), the Price is expressed as dollars and cents to four decimal places. Numeric 9(7) v 9(2) For Security Types 39, 52, 59 & 65 (Ultra High Denomination securities), the Price is expressed as dollars and cents to two decimal places
DESCRIPTION:	Indicates the price change of a security (equity, convertible note, company option or warrant). The change is calculated from either the last trade price of the previous trading day, or a theoretically derived opening price. The latter is used where a security price is adjusted overnight due to corporate actions such as reconstructions or bonus issues.
VALID VALUES:	N/A

Change Sign	
BYTES:	11
FORMAT:	Alphanumeric
DESCRIPTION:	Indicates the change direction of an index group value or security price since the start of the trading day.
VALID VALUES:	+ = positive - = negative [] = no change

Class Code	
BYTES:	3, occurs 10 times
FORMAT:	Alphanumeric
DESCRIPTION:	A unique identifying code for the class (e.g. BHP, NC1) which signifies the Underlying Product (equity or index) over which options are listed.
VALID VALUES:	N/A

Continue Marker	
BYTES:	1
FORMAT:	Numeric
DESCRIPTION:	Sent to indicate whether more of the same reference values will follow on the next record.
VALID VALUES:	0 = Reference values continue to next record. 1 = End of record.

Contract Multiplier/Shares Per Contract/Index Multiplier	
BYTES:	12
FORMAT:	Numeric Values are expressed in whole numbers with the exception of contracts with index as underlying. For contracts with index as underlying, values are expressed in dollars to 2 decimal places [9(10)v9(2)]*.
DESCRIPTION:	For ASX Equity Exchange Traded Options, this is the number of underlying shares represented by a single contract (for example, a value of 100 disseminated in this field represents 100 shares in 1 contract). For ASX FuturesOptions contracts, this is the number of underlying futures represented by a single contract. Note: ASX Futures Contracts for Wool, Grain, Futures trading moved to ASX Trade 24 platform in 2012. Securities details ceased to be disseminated in the ReferencePoint Master List files. *For ASX Index Options and ASX Index Futures contracts, the value is referred to as the index multiplier which is the dollar value per point of the underlying index (for example, a value of 1000 disseminated in this field represents AUD \$10/point of the underlying index) For ASX Wool Futures contracts, this is the number of Kilograms in each contract unit (for example, a value of 2500 disseminated in this field represents 2,500 kilograms in 1 contract) For ASX Grain Futures contracts, this is the number of metric tonnes in each contract unit (for example, a value of 20 disseminated in this field represents 20 metric tonnes in 1 contract) For ASX Options over Futures, this is the number of units of a futures contract (e.g. Option over ASX Grain Futures Contracts contract multiplier of "1" represents 1 contract of the ASX Grain Futures Contract).
VALID VALUES:	N/A

Count	
BYTES:	2
FORMAT:	Numeric 9(12)V9(2) Expressed as dollars and cents
DESCRIPTION:	The total consideration of shares transacted during the day. For ASX Futures Contracts, it is the total of the Sale Contract Value traded during the day.

VALID VALUES: N/A

Cumulative Sale Value/Cumulative Contract Value

BYTES: 14

FORMAT: Numeric 9(12)V9(2)
Expressed as dollars and cents

DESCRIPTION: The total consideration of shares transacted during the day. For ASX Futures Contracts, it is the total of the Sale Contract Value traded during the day.

VALID VALUES: N/A

Cumulative Sale Volume/Cumulative Contract Volume

BYTES: 12

FORMAT: Numeric

DESCRIPTION: The total number of shares transacted during the day.

VALID VALUES: N/A

Current Share Price Index Values

BYTES: 7

FORMAT: Numeric 9(6)V9(1)
Expressed as points to one decimal place

DESCRIPTION: The latest share price index points value for an index group.

VALID VALUES: N/A

Date

BYTES: 8

FORMAT: Numeric YYYYMMDD where
YYYY = Century, Year
MM = Month
DD = Day

DESCRIPTION: The date for which the data is applicable.

VALID VALUES: N/A

Exchange ID

BYTES:	1
FORMAT:	Numeric
DESCRIPTION:	With the advent of automated trading, all Exchange identifications for trades are National.
VALID VALUES:	1 = National (automated trading)

Exercise Price

BYTES:	9
FORMAT:	Numeric 9(5)V9(4) (Expressed as dollars to 4 decimal places.) Numeric 9(7) v 9(2) Expressed as dollars and cents to two (2) decimal places for Ultra High Denomination securities – Security Types 39, 52, 59, 65)
DESCRIPTION:	Also called Strike Price. For Exchange Traded Options over securities, this is the price at which the underlying security may be bought or sold by exercise of the option. For Exchange Traded Options over indices, this is the level at which the underlying index maybe bought or sold on expiry. As this level is expressed in points, this level must be multiplied by the Index Multiplier to convert to a dollar value. For Company Options, this is the total exercise capital plus exercise premium for the option. For Warrants, this represents the price at which the underlying security may be bought or sold by exercise of the warrant. This figure will be fixed at a nominal amount of 1 cent for endowment warrants and does not refer to the amount actually outstanding on endowment warrants. An amount of \$0.0001 (i.e. 1/100 of a cent) will also be applicable to certain Capital Protected Warrants.
VALID VALUES:	N/A

Falls

BYTES:	6
FORMAT:	Numeric
DESCRIPTION:	The number of equities, loan (IRM) securities, convertible notes and company options, the price of which has fallen from either the last trade price of the previous trading day, or a theoretically derived opening price. The latter is used where a security is adjusted overnight due to corporate actions such as reconstruction's or bonus issues.
VALID VALUES:	N/A

First

BYTES: 9

FORMAT: Numeric 9(5)V9(4)
Expressed as cents to four decimal places.
For Security Types 11, 12, 33, 34, 35, 48, 49, 57, 58, 85, 87 and 90 to 97 (high denomination equities and warrants & structured products, options and LEPO's), the Price is expressed as dollars and cents to four decimal places.

Numeric 9(7) v 9(2)

For Security Types 39, 52, 59 & 65 (Ultra High Denomination securities), the Price is expressed as dollars and cents to two decimal places.

DESCRIPTION: The price of the first on market trade for the day.

VALID VALUES: N/A

High

BYTES: 9

FORMAT: Numeric 9(5)V9(4)
Expressed as cents to four decimal places.
For Security Types 11, 12, 33, 34, 35, 48, 49, 57, 58, 85, 87 and 90 to 97 (high denomination equities and warrants & structured products, options and LEPO's), the Price is expressed as dollars and cents to four decimal places.

Numeric 9(7) v 9(2)

For Security Types 39, 52, 59 & 65 (Ultra High Denomination securities), the Price is expressed as dollars and cents to two decimal places.

DESCRIPTION: The highest price at which securities have sold on the market during the day.

VALID VALUES: N/A

Index Code	
BYTES:	3
FORMAT:	Alphanumeric
DESCRIPTION:	A three letter code which uniquely identifies an Index Group.
VALID VALUES:	<p>XAB S&P/ASX Corporate Bond AA Rating Band Index (currently not live)</p> <p>XAC S&P/ASX Corporate Bond A Rating Band Index (currently not live)</p> <p>XAE S&P/ASX 200 A-REIT Equal Weight Index (currently not live)</p> <p>XAF S&P/ASX All Australian 50</p> <p>XAO S&P/ASX ALL ORDINARIES</p> <p>XAR S&P/ASX Corporate Bond AAA Rating Band Index (currently not live)</p> <p>XAT S&P/ASX All Australian 200</p> <p>XBB S&P/ASX Bank Bill (currently not live)</p> <p>XBI S&P/ASX Government Bond Index (currently not live)</p> <p>XBW S&P/ASX Buy-Write</p> <p>XCO S&P/ASX Corporate Bond Index (currently not live)</p> <p>XDI S&P/ASX Dividend Opportunities Index</p> <p>XDJ S&P/ASX 200 Consumer Discretionary (Sector)</p> <p>XEC S&P/ASX Emerging Companies Index</p> <p>XEJ S&P/ASX 200 Energy (Sector)</p> <p>XEW S&P/ASX Corporate Issuer Equal-Weight Index (currently not live)</p> <p>XFA S&P/ASX Australian Fixed Interest AAA Rating Band Index (currently not live)</p> <p>XFB S&P/ASX Australian Fixed Interest AA Rating Band Index (currently not live)</p> <p>XFC S&P/ASX Australian Fixed Interest A Rating Band Index (currently not live)</p> <p>XFD S&P/ASX Australian Fixed Interest BBB Rating Band Index (currently not live)</p> <p>XFF S&P/ASX Australian Fixed Interest Index 5 – 10 Years (currently not live)</p> <p>XFI S&P/ASX Australian Fixed Interest Index (currently not live)</p> <p>XFJ S&P/ASX 200 Financials (Sector)</p> <p>XFL S&P/ASX 50</p> <p>XFO S&P/ASX Australian Fixed Interest Index 1 – 5 Years (currently not live)</p> <p>XFT S&P/ASX Australian Fixed Interest Index 10 – 15 Years (currently not live)</p> <p>XFP S&P/ASX Australian Fixed Interest Index 15 15 Years +(currently not live)</p> <p>XGB S&P/ASX Australian Government Bond Index (currently not live)</p> <p>XGD S&P/ASX All Ordinaries Gold Index</p> <p>XHJ S&P/ASX 200 Health Care (Sector)</p> <p>XIB S&P/ASX Government Inflation –Linked Bond Index (currently not live)</p> <p>XIJ S&P/ASX 200 Information Technology (Sector)</p> <p>XJO S&P/ASX 200</p> <p>XKO S&P/ASX 300</p>

VALID VALUES	XLD	S&P/ASX 200 2x Leverage Daily Index
CONTINUATION:	XMD	S&P/ASX MID CAP 50
	XMJ	S&P/ASX 200 Materials (Sector)
	XMM	S&P/ASX 300 Metals and Mining Index
	XNJ	S&P/ASX 200 Industrials (Sector)
	XNT	S&P/ASX 200 Net Total Return Index
	XNV	S&P/ASX 200 2x Inverse Daily Index
	XPJ	S&P/ASX 200 Property Trusts (Sector)
	XSJ	S&P/ASX 200 Consumer Staples (Sector)
	XSO	S&P/ASX SMALL ORDINARIES
	XSU	S&P/ASX Supranational and Sovereign Bond Index (currently not live)
	XSV	S&P/ASX State-Government Bond Index (currently not live)
	XSY	S&P/ASX 300 Shareholder Yield Index (currently not live)
	XTJ	S&P/ASX 200 Telecommunications (Sector)
	XTL	S&P/ASX 20
	XTO	S&P/ASX 100
	XUJ	S&P/ASX 200 Utilities (Sector)
	XVI	S&P/ASX 200 VIX Index
	XXJ	S&P/ASX 200 Financial-x-Property Trusts (Sector)

The Indices below are international Index codes that will not be disseminated via ASX Signal services. They are included as valid values in order to recognise that they can nonetheless be used as underlying instruments for Derivative securities such as Warrants which are quoted and traded in the Australian market.

XDO	Dow Jones Industrial Average Index	XNK	Nikkei 225 Index
XND	NASDAQ 100 Index	XSP	S&P 500 Index

Index Change

BYTES: 7

FORMAT: Numeric 9(6)V9(1)
|Expressed as points to one decimal place

DESCRIPTION: Indicates the value change of an index from its start of day value so far that business day.

VALID VALUES: N/A

Index Falls

BYTES:	6
--------	---

FORMAT:	Numeric
---------	---------

DESCRIPTION:	The number of indices whose value has fallen from their start of day value so far that business day.
--------------	--

VALID VALUES:	N/A
---------------	-----

Index Rises

BYTES:	6
--------	---

FORMAT:	Numeric
---------	---------

DESCRIPTION:	The number of indices whose value has risen from their start of day value so far that business day.
--------------	---

VALID VALUES:	N/A
---------------	-----

Intrinsic Value

BYTES:	9
--------	---

FORMAT:	Alphanumeric 9(5)V9(4) Expressed as dollars to four decimal places
---------	---

DESCRIPTION:	The difference between the market value of the underlying security and the Exercise Price of the exchange traded option. The intrinsic value is never less than zero, so any negative value is represented by a zero.
--------------	---

VALID VALUES:	N/A
---------------	-----

Issuer Code

BYTES:	3
--------	---

FORMAT:	Alphanumeric
---------	--------------

DESCRIPTION:	A code assigned to each issuing body. This field may be suffixed with the Security Code to make up a unique ASX Code.
--------------	---

VALID VALUES:	N/A
---------------	-----

Last	
BYTES:	9
FORMAT:	Numeric 9(5)V9(4) Expressed as cents to four decimal places For Security Types 11, 12, 48, 49, 85, 87, and 90 to 97 (Options, Share Ratio Contracts and ASX Futures), the price is expressed as dollars to four decimal places. If Yield, expressed as a percentage to three decimal places.
DESCRIPTION:	The last on-market sale price for a security. Note: The term “last on-market sale price” is the price from the transaction that resulted in the current Last Price.
VALID VALUES:	N/A

Last/Previous Last	
BYTES:	9
FORMAT:	Numeric 9(5)V9(4) Expressed as cents to four decimal places For Security Types 11, 12, 33, 34, 35, 48, 49, 57, 58, 85, 87 and 90 to 97 (high denomination equities and warrants & structured products, options and LEPO's), the Price is expressed as dollars and cents to four decimal places. <hr/> Numeric 9(7) v 9(2) For Security Types 39, 52, 59 & 65 (Ultra High Denomination securities), the Price is expressed as dollars and cents to two decimal places. <hr/> If Yield, expressed as a percentage to three decimal places.
DESCRIPTION:	The last on-market price at which a sale occurred for the specified security. Note: “last on-market price at which a sale occurred” is the price from the transaction that resulted in the current Last Price. To determine if the last is for the current day or a previous day, interrogate the last traded date and last traded time fields.
VALID VALUES:	N/A

Last Traded Date

BYTES: 8

FORMAT: Numeric YYYYMMDD where
 YYYY = Century, Year
 MM = Month
 DD = Day

DESCRIPTION: Indicates the date the last on-market price was captured. This date reflects the date of the transaction that generated the current Last Price

VALID VALUES: N/A

Last Traded Time

BYTES: 6

FORMAT: Numeric HHMMSS where
 HH = Hours
 MM = Minutes
 SS = Seconds

DESCRIPTION: Indicates the time the last on-market price was effected. On market reflects trading between 10.00 am and 4.00 pm on a normal business day. This time is identical to the timestamp of the Market Statistics message from ASX Trade.

VALID VALUES: N/A

Last Traded Yield (OBSOLETE)

BYTES: 5

FORMAT: Numeric 9(2)V9(3)
 Expressed as a percentage to two decimal places

DESCRIPTION: Represents an equivalent of the last trade price, expressed as the annualised return on an Interest Rate security transaction. If the calculated yield is less than 0, the value 0 is sent. This field is zero filled since September 04, 2006.

VALID VALUES: N/A

Low

BYTES: 9

FORMAT: Numeric 9(5)V9(4)
Expressed as cents to four decimal places
For Security Types 11, 12, 33, 34, 35, 48, 49, 57, 58, 85, 87 and 90 to 97 (high denomination equities and warrants & structured products, options and LEPO's), the Price is expressed as dollars and cents to four decimal places.

Numeric 9(7) v 9(2)

For Security Types 39, 52, 59 & 65 (Ultra High Denomination securities), the Price is expressed as dollars and cents to two decimal places.

DESCRIPTION: The lowest price at which shares or securities have traded on the market during the day.

VALID VALUES: N/A

Margin Price

BYTES: 9

FORMAT: Numeric 9(5)V9(4)
Expressed as dollars to four decimal places

DESCRIPTION: Is determined at the end of the day's trading, for derivative products, and is used in calculating the daily margin liability. It is calculated by taking the mid-point between the bid and offer, then rounding up to the nearest whole cent, and is subject to adjustment by ASX Derivatives.
The correct value used for margining calculations appears on the end of day (normally 7.00 pm) snapshot and on initialisation quotes; Margin Price values in the hourly and afternoon derivatives snapshots are zero filled.

VALID VALUES: N/A

Market ID

BYTES: 3

FORMAT: Numeric

DESCRIPTION: Unique

VALID VALUES: 001 = ASX TradeMatch

Message Type

BYTES: 2

FORMAT: Alphabetic

DESCRIPTION: Identifies the type of message being transmitted and enables the subscriber to identify the message format.

VALID VALUES: Refer to the [Message Types](#) section for data message types and content.

mFund Code

BYTES: 12

FORMAT: Alphanumeric

DESCRIPTION: The code assigned by ASX that identifies the mFund.

VALID VALUES: N/A

Number of Buyers

BYTES: 3

FORMAT: Numeric

DESCRIPTION: The number of Buyers recorded at the Current Bid Price.
Zero filled from September 4, 2006 for Fixed Income and Warrant Securities.
Zero filled from October 2, 2006 for Equity Securities.

VALID VALUES: N/A

Number Of Buyers/Contracts

BYTES: 10

FORMAT: Numeric

DESCRIPTION: This indicates either:
the number of Buyers at the current Bid Price OR
the number of Contracts at the current Bid Price.
To determine for Exchange Traded option quotes, whether Buyers or Contracts, interrogate the Broker/Contract Indicator.

VALID VALUES: N/A

Number of Contracts

BYTES: 9

FORMAT: Numeric

DESCRIPTION: The number of Options forming the trade.

VALID VALUES: N/A

Number of Contracts Bid

BYTES: 10

FORMAT: Numeric

DESCRIPTION: The number of contracts bid at the Current Bid Price.

VALID VALUES: N/A

Number Of Contracts Offered

BYTES: 10

FORMAT: Numeric

DESCRIPTION: The number of contracts offered at the Current Ask Price.

VALID VALUES: N/A

Number of Days to Expiry

BYTES: 5

FORMAT: Numeric

DESCRIPTION: The number of days remaining until the exercise of an exchange traded option.

VALID VALUES: N/A

Number of Sellers

BYTES: 3

FORMAT: Numeric

DESCRIPTION: The number of Sellers recorded at the Current Ask Price.
Zero filled from September 4, 2006 for Fixed Income and Warrant Securities.
Zero filled from October 2, 2006 for Equity Securities.

VALID VALUES: N/A

Number of Sellers/Contracts

BYTES: 10

FORMAT: Numeric

DESCRIPTION: This indicates either:
the number of sellers at the current Ask Price OR
the number of contracts at the current Ask Price.
To determine for Exchange Traded Option quotes, whether Sellers or Contracts, interrogate the Broker/Contract Indicator.

VALID VALUES: N/A

Open Interest

BYTES: 9

FORMAT: Numeric

DESCRIPTION: The number of outstanding contracts in a particular class or series existing in the exchange traded options or share ratios market.

VALID VALUES: N/A

Opening Theory Market

BYTES: 9

FORMAT: Numeric 9(5)V9(4)
(Expressed as cents to four decimal places).
For Security Types 11, 12, 33, 34, 35, 48, 49, 57, 58, 85, 87 and 90 to 97 (high denomination equities and warrants & structured products, options and LEPO's), the Price is expressed as dollars and cents to four decimal places.

Numeric 9(7) v 9(2)
For Security Types 39, 52, 59 & 65 (Ultra High Denomination securities), the Price is expressed as dollars and cents to two decimal places.

DESCRIPTION: The Opening Theory Market represents a price at which the stock is expected to open on the current trading day.
For price traded securities, Valuation Price is the Opening Theory Market. This field is zero filled for all yield traded securities since 26 February 2002.

VALID VALUES: N/A

Opening Theory Market Footnote

BYTES: 1

FORMAT: Alphabetic

DESCRIPTION: A notation indicating the source of the Opening Theory Market.

VALID VALUES: [] = Not Adjusted for price traded securities. Indicates no valid values for Yield traded securities since 26 February 2002.
T = Theoretical Price/Yield
D = Dilution

Percentage Change	
BYTES:	5
FORMAT:	Numeric 9(3)V9(2) Expressed as a percentage to two decimal places
DESCRIPTION:	The percentage change in the value of an Index group or the price of a security – equities, loan (IRM) securities, convertible notes, company options and warrants. For an index group, the change is measured against the start of day value for indices. For securities, the change is calculated from either the last trade price of the previous trading day, or a theoretically derived opening price. The latter is used where a security is adjusted overnight due to corporate actions such as reconstruction's or bonus issues.
VALID VALUES:	N/A

Previous Last	
BYTES:	9
FORMAT:	Numeric 9(5)V9(4) Expressed as cents to four decimal places For Security Types 11, 12, 33, 34, 35, 48, 49, 57, 58, 85, 87 and 90 to 97 (high denomination equities and warrants & structured products, options and LEPO's), the Price is expressed as dollars and cents to four decimal places.
	Numeric 9(7) v 9(2) For Security Types 39, 52, 59 & 65 (Ultra High Denomination securities), the Price is expressed as dollars and cents to two decimal places.
	If Yield, expressed as a percentage to three decimal places.
DESCRIPTION:	The previous days last on-market price at which a sale occurred for the specified security. Price Indicator value is either cents or dollars. This price is recorded for market transactions only and is not adjusted by theory.
VALID VALUES:	N/A

Price Date

BYTES: 10

FORMAT: Numeric YYYYMMDD where
 YYYY = Century, Year
 MM = Month
 DD = Day

DESCRIPTION: The date that the fund was last priced (applications and redemptions) by the fund issuer. The pricing frequency for a fund is stated in the Product Disclosure Statement (PDS). Most funds are priced daily, but may be priced weekly, monthly or quarterly.

VALID VALUES: N/A

Price/Yield Indicator

BYTES: 1

FORMAT: Alphabetic

DESCRIPTION: An indicator to say whether a security is Price-Traded or Yield-Traded.

VALID VALUES: C = Price Traded (expressed as cents to four decimal places)
 D = Price Traded (expressed as dollars and cents*)
 Y = Yield-traded

*** Notes**

For High Denomination security types (11, 12, 33, 34, 35, 48, 49, 57, 58, 85, 87 and 90 to 97), the price is expressed as dollars and cents to four (4) decimal places.

For Ultra High Denomination security types (39, 52, 59 and 65), the price is expressed as dollars and cents to two (2) decimal places.

Put Trades

BYTES: 9

FORMAT: Numeric

DESCRIPTION: The total number of trades in Exchange Traded Put Options so far that business day.

VALID VALUES: N/A

Put Turnover

BYTES: 12

FORMAT: Numeric
Expressed as dollars

DESCRIPTION: The total value of trades in Exchange Traded Put Options so far that business day. This value reflects the price multiplied by number of contracts traded multiplied by the number of shares per contract or contract multiplier.

VALID VALUES: N/A

Put Contracts Traded

BYTES: 9

FORMAT: Numeric

DESCRIPTION: The total number of contracts traded in Exchange Traded Put Options so far that business day.

VALID VALUES: N/A

Redemption Price

BYTES: 17

FORMAT: Numeric 9(11)V9(6)
Expressed as dollars and cents up to six (6) decimal places.

DESCRIPTION: The last unit price declared by the fund issuer to redeem one unit in a fund.

VALID VALUES: N/A

Reserved (price data field in QY Message)

BYTES: 9

FORMAT: Numeric 9(5)V9(4)
Expressed as cents to four decimal places
For Security Types 11, 12, 48, 49, 85, 87, and 90 to 97 (Options, Share Ratio Contracts and ASX Futures), the price is expressed as dollars to four decimal places.

DESCRIPTION: To be advised.

VALID VALUES: N/A

Retransmit ID

BYTES:	1
FORMAT:	Numeric
DESCRIPTION:	Default value.
VALID VALUES:	0

Rises

BYTES:	6
FORMAT:	Numeric
DESCRIPTION:	The number of equities, loan securities, convertible notes and company options, the price of which has risen from either the last trade price of the previous trading day, or a theoretically derived opening price. The latter is used where a security is adjusted overnight due to corporate actions such as reconstruction's or bonus issues.
VALID VALUES:	N/A

Sector Code

BYTES:	2												
FORMAT:	Alphabetic												
DESCRIPTION:	Code indicating which market sector is being referred to.												
VALID VALUES:	<table> <tr> <td>I</td> <td>Industrial</td> </tr> <tr> <td>M</td> <td>Mining</td> </tr> <tr> <td>O</td> <td>Oil & Gas</td> </tr> <tr> <td>IX</td> <td>Foreign Exempt Industrial</td> </tr> <tr> <td>MX</td> <td>Foreign Exempt Mining</td> </tr> <tr> <td>OX</td> <td>Foreign Exempt Oil & Gas</td> </tr> </table>	I	Industrial	M	Mining	O	Oil & Gas	IX	Foreign Exempt Industrial	MX	Foreign Exempt Mining	OX	Foreign Exempt Oil & Gas
I	Industrial												
M	Mining												
O	Oil & Gas												
IX	Foreign Exempt Industrial												
MX	Foreign Exempt Mining												
OX	Foreign Exempt Oil & Gas												

Sector Trades

BYTES:	9
FORMAT:	Numeric
DESCRIPTION:	The total number of trades in securities comprising each relevant market sector of the market so far that business day.
VALID VALUES:	N/A

Sector Turnover

BYTES:	12
FORMAT:	Numeric Expressed as dollars
DESCRIPTION:	The total value of trades in securities comprising each relevant market sector so far that business day.
VALID VALUES:	N/A

Sector Volume

BYTES:	12
FORMAT:	Numeric
DESCRIPTION:	The total number of securities traded within each market sector so far that business day.
VALID VALUES:	N/A

Security Code

BYTES:	3
FORMAT:	Alphanumeric
DESCRIPTION:	A code allocated to each security pertaining to an issuing body. This field may be prefixed with the Issuer Code to make up a unique ASX Code.
VALID VALUES:	N/A

Security Type

BYTES:	2
FORMAT:	Numeric
DESCRIPTION:	The type of Security as defined by the issuing body.
VALID VALUES:	See the Security Type Table

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 will always contain the sequence number "000001". Subsequent messages will have the sequence number incremented by one.
VALID VALUES:	000001 - 999999

Share Price Index High	
BYTES:	7
FORMAT:	Numeric 9(6)V9(1) Expressed as points to one decimal place
DESCRIPTION:	The highest share price index points value of an index for the current business day.
VALID VALUES:	N/A

Share Price Index Low	
BYTES:	7
FORMAT:	Numeric 9(6)V9(1) Expressed as points to one decimal place
DESCRIPTION:	The lowest share price index points value of an index for the current business day.
VALID VALUES:	N/A

Share Price Index Values	
Bytes	7
Format	Numeric 9(6)V9(1) Expressed as points to one decimal place
Description	The end of day share price index points value of an index for the current business day.
Valid Values	N/A

Special Market Indicator	
BYTES:	1
FORMAT:	Alphabetic
DESCRIPTION:	A notation indicating whether the message contains data relevant to a security which is being quoted on a basis different to the existing quotation. To determine what type of basis the security is being quoted under, interrogate the Basis Of Quotation field.
VALID VALUES:	Y = Yes the security is currently being quoted on a basis different to the existing quotation. N = No the security is not currently being quoted on a basis different to the existing quotation. Note: Only the messages relevant to the special market security will ever contain an indicator of "Y" and this indicator will always be accompanied by a valid value/s in the Basis Of Quotation field.

Steadies	
BYTES:	6
FORMAT:	Numeric
DESCRIPTION:	The number of equities, loan securities, convertible notes and company options, the price of which has remained unchanged from either the last trade price of the previous trading day, or a theoretically derived opening price. The latter is used where a security is adjusted overnight due to corporate actions such as reconstructions or bonus issues.
VALID VALUES:	N/A

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. The following 'Time' field changes on the Trade, Quote and Snapshot messages became effective after the Integrated trading System (ITS) implementation for each respective markets (Derivatives – July 10, 2006; Fixed Income Securities – September 4, 2006; Warrant Securities – September 4, 2006 and Equities – October 2, 2006). Trade messages are time-stamped with the time the trade was executed on the trading system. Quote messages are time-stamped with the quote capture time of ASX's central repository system. Snapshot messages are time-stamped with the snapshot dissemination time.

Time

This field consists of several sub-fields as a result of the introduction of ITS in 2006. It has a different definition depending on the message type. These other 'Time' definitions are detailed below.

Trade / Trade Cancellation Time: this refers to the actual time of the trade or trade cancellation.

From 10 Jul 2006, the 'Time' field on Trade and Trade Cancellation messages for Derivatives securities became this new time.

From 4 Sep 2006, the 'Time' field on Trade and Trade Cancellation messages for Fixed Income and Warrant securities became this new time.

From 2 Oct 2006, the 'Time' field on Trade and Trade Cancellation messages for Equity securities became this new time.

Time

DESCRIPTION CONTINUED

Quote Capture Time: this refers to the time the ASX central system captured the quote message.

From 10 Jul 2006, the 'Time' field on Quote messages for Derivatives securities became this new time.

From 4 Sep 2006, the 'Time' field on Quote messages for Fixed Income and Warrant securities became this new time.

From 2 Oct 2006, the 'Time' field on Quote messages for Equity securities became this new time.

Snapshot Dissemination Time: this refers to the time of snapshot dissemination.

From 10 Jul 2006, the 'Time' field on Snapshot messages for Derivatives securities became this new time.

From 4 Sep 2006, the 'Time' field on Snapshot messages for Fixed Income and Warrant securities became this new time.

From 2 Oct 2006, the 'Time' field on Snapshot messages for Equity securities became this new time.

The 'Time' field on all other message types continue to indicate "the time that the record was entered into the computer system to be disseminated".

VALID VALUES: N/A

Time Value

BYTES: 9

FORMAT: Alphanumeric 9(5)V9(4)
(Expressed as dollars to four decimal places)

DESCRIPTION: The value given to the amount of time the option has left in which it may appreciate. As the expiry date nears, the time value approaches zero.
Blank filled for options with unquoted underlying security.

VALID VALUES: N/A

Total Contracts Traded

BYTES: 9

FORMAT: Numeric

DESCRIPTION: The total number of call and put contracts traded in Exchange Traded Options so far that business day. Figure includes LEPO's.

VALID VALUES: N/A

Trades

BYTES: 9

FORMAT: Numeric

DESCRIPTION: The total number of trades for the relevant market, or security type (as for the MW Warrants Summary message). For example in the MT Market Turnover message, trades refers to the total number of trades for all securities on the ASX Trade market so far that business day.

VALID VALUES: N/A

Turnover

BYTES: 12

FORMAT: Numeric
Expressed as dollars

DESCRIPTION: The total value of trades for the relevant market, index or security type (as for the MW Warrants Summary message). For example, in the MV Index turnover message, turnover refers to the total value of all trades for all securities in each ASX index so far that business day.

VALID VALUES: N/A

Underlying Product

BYTES: 6

FORMAT: Alphanumeric

DESCRIPTION: The ASX Code for a product underlying an Exchange Traded Option, ASX Futures Contract or Warrant.

VALID VALUES: N/A

Valuation Price	
BYTES:	9
FORMAT:	<p>Numeric 9(5)V9(4) (Expressed as cents to four decimal places) For Fixed Interest Securities (71, 72, 81), expressed as dollars to four decimal places. For Security Types 11, 12, 33, 34, 35, 48, 49, 57, 58, 85, 87 and 90 to 97 (high denomination equities and warrants & structured products, options and LEPO's), the Price is expressed as dollars and cents to four decimal places.</p> <hr/> <p>Numeric 9(7) v 9(2) For Security Types 39, 52, 59 & 65 (Ultra High Denomination securities), the Price is expressed as dollars and cents to two decimal places.</p>
DESCRIPTION:	<p>The purpose of this field is to provide a price for, say, valuing a portfolio, taking into account that the stock may not have traded today.</p> <p>Price Traded Stocks</p> <p>Set A - For Equity Security Types (excluding Fund-Like security types 32 to 35).</p> <p>If there was a trade today, then the LAST price adjusted by either a higher BID price or a lower ASK price is used to create the valuation price. If there were no trades today, then yesterday's VALUATION price, adjusted by a higher BID price or a lower ASK price, becomes the new VALUATION price.</p> <p>Set B - For Security Types 32 to 35 and Warrants/Structured Products Securities (Security Types 46 to 49, 52, 53, 54, 56, 59 & 65).</p> <p>Valuation Price is the highest last BID price available for the day. If there is no BID price available (bid-price is zero), then the Valuation Price from previous calculation becomes the new Valuation Price.</p> <p>Yield Traded Stocks (Obsolete)</p>
VALID VALUES:	N/A

Valuation Price Footnote	
BYTES:	1
FORMAT:	Alphabetic
DESCRIPTION:	A notation indicating the source of the Valuation Price/Yield.
VALID VALUES:	<p>[] = Set from the Last Traded Date Closing Price for Price Traded Stocks Set A; Set from previous Valuation Price for Price Traded Stocks Set B</p> <p>A = Set by a Lower Ask Price or a Higher Ask Yield</p> <p>B = Set by a Higher Bid Price or a Higher Bid Yield</p> <p>T = Theoretical Price/Yield</p>

* = Price/Yield not changed for 32 days

Valuation Yield (OBSOLETE)

BYTES: 5

FORMAT: Numeric 9(2)V9(3)
(Expressed as cents to 4 decimal places)

DESCRIPTION: This field is currently blank filled.

VALID VALUES: N/A

Volume

BYTES: 12

FORMAT: Numeric

DESCRIPTION: The total number of equities, loan (IRM) securities, convertible notes, company options and warrants traded so far that business day. Disseminated by index in the index summary, for the entire market in the market summary and for warrants in the warrant summary.

VALID VALUES: N/A

General Information

This section provides general information applicable to the various messages.

Basis of Quotation

Generally securities trade on a 'cum' basis. However, under certain circumstances, special markets may be created on a daily basis, which trade outside the 'normal' market and in addition to the normal market.

To identify trades that have occurred as a result of a special market, a subscriber should interrogate the basis of quotation and special market indicator fields. Trades which occur in a normal market do not contain any values in the basis of quotation field and contain a value of 'N' in the special market indicator field, regardless of whether it is an 'ex' or a 'cum' market. Trades that occur as the result of a special market, have one or more values in the basis of quotation field and a valid value of 'Y' in the special market indicator. Refer to 'Basis of Quotation' field definition for the relevant valid values.

For example, if the normal market for XYZ is ex-dividend, then the basis of quotation field is blank filled and the special market indicator contains a value of 'N'. If a 'cum' dividend special market is established, any trades executed in this special market will contain 'CD' in the basis of quotation field and a value of 'Y' in the special market indicator field.

A special market may be established for a security that has more than one basis of quotation. For example, a cum dividend (CD), cum rights (CR) special market may be established for XYZ. Any trades executed in this special market would have 'CD' and 'CR' in the basis of quotation field and a value of 'Y' in the special market indicator.

Any trade that contains a value other than spaces in the basis of quotation field, should not update the first, high, low or last fields. These are considered off market trades, and thus only update the cumulative volume and cumulative value fields.

Exchange Traded Options (ETO) Securities Coding Conventions

A more random selection process of the fourth and fifth characters is used in the coding of each strike of an option series. The coding convention has moved away from the month and type identifiers.

Representation of ASX Index Futures Contract Prices

ASX Index Futures Contracts (Security Types 97) are traded in index points. Quoted markets for these products are in whole point terms (i.e. BID/ASK is 3567/3568), however at maturity these products can settle to 1/10 of an index point (i.e. 3567.3). The tick value of these products is 1 point which equates to a value of \$10. Hence, an index value of 3567.0 points would have a Futures Contract value of \$35,670.00.

A 9 byte field is disseminated in price fields on ASX ReferencePoint® and is expressed as a dollar value to 4 decimal places. A disseminated value of 000356700 is therefore interpreted as \$35.67. This dollar value is required in order to calculate cumulative contract value. The dollar value may be converted to an index point value by multiplying it by 100. The index point value can then be multiplied by 10 (i.e.: \$10.00) in order to arrive at the contract value.

The common representation used on trading screens for ASX Index Futures Contract prices is index points. Representation of ASX Index Futures Contract price is different on ASX Market Information's ReferencePoint® products due to these calculation requirements.

Interpretation Guidelines for Shares Per Contract/Contract Multiplier/ Index Multiplier Data Field

The purpose of this section of the manual is to provide additional clarity and some interpretation guidelines for the values disseminated in the Shares per Contract/Contract Multiplier/Index Multiplier data field.

Subscribers are reminded of the triple-purpose nature of this data field, given it is used to accommodate contract size values across all the different ASX Exchange Traded Options and Futures products.

To illustrate:

ASX Index Options and Index Futures Contracts, have an index as an underlying and are measured according to an Index Multiplier rather than Shares per Contract size. The value disseminated in the Shares Per Contract / Contract Multiplier / Index Multiplier field is a value in cents, which users should convert into a dollar format, as specified in the field definition ie: a value of "000001000" disseminated in this 9-byte field as Index Multiplier for an Index Futures Contract, represents 1000 cents, and as per the field format specification, should be converted to the equivalent dollar value of \$10.00. This value should be interpreted by users as an Index Multiplier of AUD \$10/point of the underlying index.

Field Definitions for these fields can be found in the Field Definition section of this manual.

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 feature 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.

- a. The first two characters denotes/maps to the first 2 characters of the underlying ASX Code i.e. BH for BHP
- b. The third character is a set of 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.

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

Valuation Price, Opening Theory Market and other data fields in the QP, QK & QY Messages

Opening Theory Market price data field is disseminated in the QP Initialisation Quotes for Equity, Loan Security and Exchange Traded Funds securities. Valuation Price data field is disseminated in both the QP Initialisation message and the End of Day version of the QY (Equity Snapshot) message. These two messages are generated after the close of market on the day indicated by the date label and are applicable for the next trading day. The file consists of both active and suspended securities (inactive securities for the next trading day are excluded). As such, zero Valuation Price and Opening Theory Market values are disseminated in the file for the following instances:

- Securities listed/quoted for the first time.

Example:

- Treyo Leisure and Entertainment Limited (TYO) – fully paid ordinary share TYO first listed on January 08, 2009.
- Opening Theory Market and Valuation Price values for TYO on January 7, 2009 QP Message is zero.

- Securities re-listed/requoted after temporary delisting. These are the securities quoted under deferred settlement ASX Codes during the period of temporary delisting. The securities are quoted as deferred settlement securities as a result of a reconstruction corporate action.

Example:

- Kalgoorlie-Boulder Resources Limited (KAL) - 5 for 1 consolidation on December 22, 2008.
- ASX Code "KAL" - temporarily delisted from December 22, 2008 to January 08, 2009.
- ASX Code "KALDA" - deferred settlement ASX Code for "KAL" from December 22, 2008 to January 8, 2009.
- ASX Code "KAL" – re-listed on January 9, 2009.
- Opening Theory Market and Valuation Price values for "KAL" on January 8, 2009 QP Message is zero.

For these re-listed/requoted securities, zero values will also be disseminated on the following data fields in the QY Equity Snapshot message:

- Bid Price
- Ask Price
- First
- High
- Low
- Last/Previous Last
- Last Traded Date
- Last Traded Time

"Valuation Price" and "Valuation Price Footnote" data fields were introduced in the QK Message effective 15 July 2013. Values for these data fields for relevant securities are disseminated for both the intraday and end of day files only in the D01 files.

Exchange Traded Options Price Calculation

There are several elements of the exchange traded options price which can be calculated from data in the signal. These are:

- Intrinsic value
- Time value
- Annualised return

These may be calculated as follows:

Intrinsic value

Call Options:

Intrinsic Value	=	Last of the Underlying Security	-	Exercise Price
(Available from the QH Equity)		(Also known as Quote Message)		'Strike' Price. Exercise Price is available from the QQ Initialisation Quote for Exchange Traded Option Messages)

Put Options:

$$\text{Intrinsic Value} = \text{Exercise Price} - \text{Last of the Underlying Security}$$

If the result of either calculation is a negative value, the intrinsic value is set to zero.

Time Value

$$\text{Time Value} = A - \text{Intrinsic Value}$$

Where

- **A** is the margin price or last sale price.
- Last sale price overrides margin price.
- If the result of the calculation is a negative value, then the time value is set to zero.

Annualised Return

$$\text{Annualised Return} = \text{Time Value} \times \frac{36,500}{\text{Last of the underlying security. (QH - Equity Quote Message)}} \times \frac{\text{Number of days to expiry. (QQ - Initialisation Quote - Exchange Traded Option Message)}}{36,500}$$

Last of the underlying security.
(QH - Equity Quote Message)

Number of days to expiry.
(QQ - Initialisation Quote - Exchange Traded
Option Message)

Annualised return should be set to zero for any of the following conditions:

- If Time Value is equal to zero
- If the number of days to expiry is zero
- If Last is zero

Security Type Table

Type	Description
01-03	Ordinary Shares
01	Ordinary
02	Restricted Ordinary
03	Employee Ordinary
04	Allocation Interest
05	Forfeited
06	Trust Units
07	Exchange Traded Fund Units
08	Reserved (N.Z.)
09	Entitlements
10	Rights
11	High Denomination Equities
12	High Denomination Convertible Notes
15	CHESS Miscellaneous Payments
16-31	Preference
16	Preference
17	Cumulative Preference
18	Cumulative Redeemable Preference
19	Cumulative Redeemable Convertible Preference
20	Cumulative Convertible Preference
21	Convertible Preference
22	Convertible Redeemable Preference
23	Redeemable Preference
24	Part Preference
25	Redeemable Part Preference
26	Cumulative Part Preference

Type	Description
27	Convertible Part Preference
28	Cumulative Redeemable Part Preference
29	Cumulative Redeemable Convertible Part Preference
30	Employee Preference
31	Cumulative Part Employee Preference
32-28	Funds
32	Trading Long Exposure
33	Trading Managed Fund – High Denomination
34	QDB Managed Fund (T+3) – High Denomination
35	mFund – High Denomination
36	Trading Managed Fund
37	QDB Managed Fund (T+3)
38	mFund
40-42	Company Options
40	Options
41	Employee Options
42	Restricted Option
43	Delivery Option
44	Bonus Delivery Option
45	Option Bonds
46-49, 59, 65	Warrants
46	Warrants (Calls)
47	Warrants (Puts)
48	High Denomination Warrants (Calls)
49	High Denomination Warrants (Puts)
59	Ultra High Denomination Warrants (Calls)
65	Ultra High Denomination Warrants (Puts)

Type	Description
50-51	Convertible Notes
50	Convertible Notes (Equity Security)
51	Convertible Notes (Interest Rate Security)
39, 52-58	Structured Products
39	Trading Structured Product (Calls) – Ultra High Denomination
52	Trading Structured Products (Puts) – Ultra High Denomination
53	Trading Structured Product Call
54	Trading Structured Product Put
55	QDB Structured Product Call
56	QDB Structured product Put
57	QDB Structured Product Call – High Denomination
58	QDB Structured Product Put – High Denomination
60	Debenture
61	Screen Traded Debentures
62	Transferable Deposits
63	Tax Free Loans
64	Semi-Government Loans
66	Screen Traded Semi Government Loans
70	Unsecured Notes (Non-Screen Traded)
71	Screen Traded Unsecured Notes (Cash Traded)
72	Floating Rate Notes
73	Wholesale Corporate Interest Rate Securities
80	Government Loans
81	Bond CDI (covers Exchange-traded Australian Government Bonds and Corporate Bond CDIs)
83	Screen Traded Government Loans
85	Australian Grain Futures
87	Australian Wool Futures

Type	Description
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 Contracts
99	Australian Futures Strip

Access via ASX Online

System Introduction

ASX Online is an innovative extranet site from ASX, developed to meet your needs by providing information efficiently and cost effectively.

The site offers subscribers fast access to products and information while maintaining security through unique user names and passwords. ASX Online has been specifically designed to be flexible and easy to use. You will find the navigation bar takes you quickly to the information you need.

Access and Availability

The ASX Online site has a scheduled availability of 12:00am Monday – 12:00pm Saturday, Australian Eastern Standard Time, with a maximum downtime of 15 minutes in this period.

Website Details

The ASX Online site has a unique URL: <https://www.asxonline.com/mia/>

Security Identification

Security Identification is defined by a unique combination of a user name and password. The only means of gaining a user name and password for the ASX Online site is from the ASX Information Services Contracts & Subscriptions Coordinator.

Prior to receiving a user name and password, the Subscriber must have signed and returned two original copies of the Subscription Agreement. The user name and password will be sent by way of a personally addressed letter.

It is the Subscriber's responsibility to protect the confidentiality of the Security Identification and prevent its unauthorised use or distribution. If the confidentiality of the Security Identification is compromised, the Subscriber must notify the ASX Information Services Contracts & Subscriptions Coordinator in writing immediately and a new Security Identification will be issued. The compromised Security Identification will be cancelled on receipt of the above written notice.

ASX may also cancel or suspend a Subscriber's Security Identification where misuse or abuse of access to the ASX Online site has been identified. In this instance, ASX will notify the Subscriber in writing.

Resources

Guidance about automated ways of accessing data from ASX Online is available via the following resources:

- Customers seeking to automate file download via their own preferred mechanism: <https://ASX Online.com/content/ASX Online/public/documents/market-information-application--mia----rest-programmatic-interfa.html>
- Customers seeking to use the ASX developed java application: <https://ASX Online.com/content/ASX Online/public/documents/market-information-application--mia----java-downloader-guide.html>

Document History

Version	Date	Page	Changes made
3.0	April 2025	All	Template updated only. No changes made to content.
4.0	November 2025	All	ASX logo updated only. No changes made to content.

Note: For previous updates/changes, refer to ASX Information Services Notices published. ASX Information Services Notices can be accessed using the below link:

asxonline.com

- Click on the **Participant** icon at the top of the page
- Click on the **Library** icon at the top of the subsequent page.
- Click on “**Communications**” folder, then on “**Market Information**”, to access these notices.

Contact Us

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