NASDAQ OMX PSX Best Bid and Offer

For PSX Trading Venue

NASDAQ OMX Global Data Products
12/5/14

PSX Best Bid and Offer (PSX BBO)

1 Overview

1.1 Product Description

PSX Best Bid and Offer (PSX BBO) is a direct data feed product offered by NASDAQ OMX to support the PSX Trading Market upon launch. PSX BBO provides the exchange's best bid and offer position for NASDAQ-, New York Stock Exchange (NYSE)-, NYSE MKT-, NYSE Arca- and BATS-listed securities.

Market data distributors may use the PSX BBO data feed to feed dynamically updating stock tickers, portfolio trackers, trade alert programs, time and quote graphs, and other display systems. For market data administration purposes, PSX BBO is part of the PSX Basic entitlement.

For pricing and ordering information:

1. Refer to Market Data section of the NASDAQ OMX Trader website.
2. Contact the NASDAQ OMX Global Data Products Account Team at +1 301 978 5307 or +45 33 93 33 66.

2 Network Protocol Options

For direct data feed subscribers, NASDAQ OMX will offer the PSX BBO data feed in the following protocol options:

- SoupBinTCP
- MoldUDP64
- SoupTCP
- MoldUDP

In order to match the PSX Basic entitlement structure, PSX BBO will initially support three outbound channels for both protocol options. The PSX BBO data set will be channelized based on the listing market of a security.

Data Channel	Securities coverage
1	NASDAQ-listed issues
2	NYSE- and BATS-listed issues
3	NYSE MKT-, NYSE Arca- listed issues

3 Architecture

PSX BBO will be made up of a series of sequenced messages. Each message is variable in length based on the message type. The messages that make up the PSX BBO protocol are typically delivered using a higher level protocol that takes care of sequencing and delivery guarantees.

4 Data Types

All integer fields are unsigned big-endian (network byte order) binary encoded numbers.

All alphanumeric fields are ASCII fields which are left justified and padded on the right with spaces.

Prices are integer fields, supplied with an associated precision. When converted to a decimal format, prices are in a fixed point format, where the precision defines the number of decimal places. For example, a field flagged as Price (4) has an implied 4 decimal digits.

Timestamps reflects the NASDAQ system time at which the outbound message was generated. NASDAQ states time as the number of nanoseconds past midnight. The time zone is U.S. Eastern Time.

5 Message Formats

Note: For consistency, NASDAQ OMX has coded the PSX Best Bid and Offer to use the same data formats as the NASDAQ Best Bid and Offer (QBBO) 2.0 and BX Best Bid and Offer (BX BBO) 2.0 data feed offerings.   Functionality that will not be supported for the PSX market upon initial market implementation has been grayed out.

5.1 System Event Message

The System Event message is used to signal key market or data feed control events. PSX BBO will support the System Event messages.

SYSTEM EVENT MESSAGE				
Name	Offset	Length	Value	Notes
Message Type	0	1	"S"	System Event
Tracking Number	1	2	Integer	NASDAQ OMX internal tracking number
Time Stamp	3	6	Timestamp	Time stamp
Event Code	9	1	Alphanumeric	Denotes the type of event for which the message is being generated. See list below for allowable values.

On a daily basis, PSX BBO will support the following event codes:

SYSTEM EVENT CODES – DAILY	
Code	Explanation
O	*Start of Transmissions*: Denotes that PSX BBO has started its daily transmission schedule
S	*Start of System Hours*: This message indicates that PSX is

	open and ready to start accepting orders.
Q	*Start of Market Hours:* This message is intended to indicate that Market Hours orders are available for execution.
M	*End of Market Hours:* This message is intended to indicate that Market Hours orders are no longer available for execution.
E	*End of System Hours:* It indicates that PSX is now closed and will not accept any new orders today.
C	*End of Transmissions:* Denotes that PSX BBO has completed its daily transmission schedule.

5.2 Administrative Messages

5.2.1 Stock Directory

At the start of each trading day, NASDAQ OMX PSX disseminates stock directory messages for all active symbols in its market center system.

Market data vendors should process this message to populate the Financial Status Indicator (required display field) and the Market Category (recommended display field) for NASDAQ-listed issues.

STOCK DIRECTORY				
Name	*Offset*	*Length*	*Value*	*Notes*
Message Type	0	1	"R"	Stock Directory Message
Tracking Number	1	2	Integer	NASDAQ OMX internal tracking number
Timestamp	3	6	Timestamp	Time at which the directory message was generated. Refer to Data Types for field processing notes.
Stock	9	8	Alphanumeric	Denotes the security symbol for the issue in the NASDAQ execution system.
Market Category	17	1	Alphanumeric	Indicates Listing market or listing market tier for the issue | Code	Definition
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NASDAQ-Listed Instruments	
Q	NASDAQ Global Select Market^{SM}
G	NASDAQ Global Market^{SM}
S	NASDAQ Capital Market$^{®}$
Non-NASDAQ-Listed Instruments	
N	New York Stock Exchange (NYSE)
A	NYSE MKT
P	NYSE Arca
Z	BATS Z Exchange
\<space\>	Not available	
Financial Status	18	1	Alphanumeric	For NASDAQ-listed issues, this field

Indicator				indicates when a firm is not in compliance with NASDAQ continued listing requirements.

Code	Definition
NASDAQ-Listed Instruments	
D	Deficient
E	Delinquent
Q	Bankrupt
S	Suspended
G	Deficient and Bankrupt
H	Deficient and Delinquent
J	Delinquent and Bankrupt
K	Deficient, Delinquent and Bankrupt
C	Creations and/or Redemptions Suspended for Exchange Traded Product
N	Normal (Default): Issuer Is NOT Deficient, Delinquent, or Bankrupt
Non-NASDAQ-Listed Instruments	
<space>	Not available. Firms should refer to SIAC feeds for code if needed.

Field	Offset	Length	Type	Description
Round Lot Size	19	4	Integer	Denotes the number of shares that represent a round lot for the issue
Round Lots Only	23	1	Alphanumeric	Indicates if NASDAQ system limits order entry for issue
Issue Classification	24	1	Alphanumeric	Identifies the security class for the issue as assigned by NASDAQ. See Appendix for allowable values.
Issue Sub-Type	25	2	Alphanumeric	Identifies the security sub-type for the issue as assigned by NASDAQ. See Appendix for allowable values.
Authenticity	27	1	Alphanumeric	Denotes if an issue or quoting

(Round Lots Only)

Code	Definition
Y	NASDAQ OMX system only accepts round lots orders for this security.
N	NASDAQ OMX system does not have any order size restrictions for this security. Odd and mixed lot orders are allowed.

				participant record is set-up in NASDAQ systems in a live/production, test, or demo state. Please note that firms should only show live issues and quoting participants on public quotation displays. <table><tr><th>Code</th><th>Definition</th></tr><tr><td>P</td><td>Live/Production</td></tr><tr><td>T</td><td>Test</td></tr></table>
Short Sale Threshold Indicator	28	1	Alphanumeric	Indicates if a security is subject to mandatory close-out of short sales under SEC Rule 203(b)(3). <table><tr><th>Code</th><th>Definition</th></tr><tr><td>Y</td><td>Issue is restricted under SEC Rule 203(b)(3)</td></tr><tr><td>N</td><td>Issue is not restricted</td></tr><tr><td><space></td><td>Threshold Indicator not available</td></tr></table>
IPO Flag	29	1	Alphanumeric	Indicates if the NASDAQ security is set up for IPO release. This field is intended to help NASDAQ market participant firms comply with FINRA Rule 5131(b). <table><tr><th>Code</th><th>Definition</th></tr><tr><td colspan="2">NASDAQ-Listed Instruments</td></tr><tr><td>Y</td><td>NASDAQ listed instrument is set up as a new IPO security</td></tr><tr><td>N</td><td>NASDAQ listed instrument is not set up as a new IPO security</td></tr><tr><td colspan="2">Non-NASDAQ-Listed Instruments</td></tr><tr><td><space></td><td>Not available</td></tr></table>
LULD Reference Price Tier	30	1	Alphanumeric	Indicates which Limit Up / Limit Down price band calculation parameter is to be used for the instrument. Refer to LULD Rule for details. <table><tr><th>Code</th><th>Definition</th></tr><tr><td>1</td><td>Tier 1 NMS Stocks and select ETPs</td></tr><tr><td>2</td><td>Tier 2 NMS Stocks</td></tr><tr><td><space></td><td>Not applicable</td></tr></table>
ETP Flag	31	1	Alphanumeric	Indicates whether the security is an exchange traded product (ETP): <table><tr><th>Code</th><th>Definition</th></tr><tr><td>Y</td><td>Instrument is an ETP</td></tr><tr><td>N</td><td>Instrument is not an ETP</td></tr><tr><td><space></td><td>Not available</td></tr></table>
ETP Leverage Factor	32	4	Integer	Tracks the integral relationship of the ETP to the underlying index. Example:

				If the underlying Index increases by a value of 1 and the ETP's Leverage factor is 3, indicates the ETF will increase/decrease (see Inverse) by 3. Note: Leverage Factor of 1 indicates the ETP is NOT leveraged. This field is used for LULD Tier I price band calculation purposes.
Inverse Indicator	36	1	Alphanumeric	Indicates the directional relationship between the ETP and underlying index. Example: An ETP Leverage Factor of 3 and an Inverse value of 'Y' indicates the ETP will decrease by a value of 3.

Code	Definition
Y	ETP is an Inverse ETP
N	ETP is not an Inverse ETP

5.2.2   Stock Trading Action

NASDAQ OMX uses this administrative message to indicate the current trading status of a security to the trading community.

Prior to the start of system hours, NASDAQ OMX will send out a Trading Action spin. In the spin, NASDAQ OMX will send out a Stock Trading Action message with the "T" (Trading Resumption) for all NASDAQ- and other exchange-listed securities that are eligible for trading at the start of the PSX system hours. If a security is absent from the pre-opening Trading Action spin, firms should assume that the security is being treated as halted in the PSX platform at the start of the system hours.   Please note that securities may be halted in the PSX system for regulatory or operational reasons.

After the start of system hours, NASDAQ OMX will use the Trading Action message to relay changes in trading status for an individual security. Messages will be sent when a stock is:
- Halted
- Released for quotation
- Released for trading

STOCK TRADING ACTION MESSAGE				
Name	**Offset**	**Length**	**Value**	**Notes**
Message Type	0	1	"H"	Trading Action
Tracking Number	1	2	Integer	NASDAQ OMX internal tracking number
Time Stamp	3	6	Timestamp	Time Stamp.

Stock	9	8	Alphanumeric	NASDAQ-assigned indicator for issue for which the stock trading action message is being generated. For details on NASDAQ symbology, please refer to Appendix B.
Security Class	17	1	Alphanumeric	Indicates the primary listing market for the issue. Allowable values are:
Current Trading State	18	1	Alphanumeric	Reflects the current trading state for the issue. The allowable values are:
Reason	19	4	Alphanumeric	Reflects the Market Ops or MarketWatch code for the trading state change. Refer to Appendix C for current code list.

Security Class allowable values:

Code	Value
Q	NASDAQ Listed Issue
N	NYSE
A	NYSE MKT
P	NYSE Arca
Z	BATS

Current Trading State allowable values:

Code	Value
H	Halted/Paused on NASDAQ and all UTP participants
Q	Quotation only period for cross-SRO halt or pause
P	Paused across all U.S. equity markets / SROs (NASDAQ-listed securities only)
T	Trading on PSX

5.2.3   Reg SHO Short Sale Price Test Restricted Indicator

In November 2010, the Securities and Exchange Commission (SEC) implemented changes to Rule 201 of the Regulation SHO (Reg SHO).   For details, please refer to SEC Release Number 34-61595.   In association with the Reg SHO rule change, NASDAQ

introduced the following Reg SHO Short Sale Price Test Restricted Indicator message format.

For NASDAQ-listed issues, NASDAQ supports a full pre-opening spin of Reg SHO Short Sale Price Test Restricted Indicator messages indicating the Rule 201 status for all active issues.   NASDAQ also sends the Reg SHO Short Sale Price Test Restricted Indicator message in the event of an intraday status change.

For other exchange-listed issues, NASDAQ relays the Reg SHO Short Sale Price Test Restricted Indicator message when it receives an update from the primary listing exchange.

NASDAQ processes orders based on the most Reg SHO Restriction status value.

REG SHO RESTRICTION				
Name	**Offset**	**Length**	**Value**	**Notes**
Message Type	0	1	"Y"	Reg SHO Short Sale Price Test Restricted Indicator
Tracking Number	1	2	Integer	NASDAQ OMX internal tracking number
Timestamp	3	6	Timestamp	Time at which the market participant position message was generated
Stock	9	8	Alphanumeric	Stock symbol right padded with spaces.
Reg SHO Action	17	1	Alphanumeric	Denotes the Reg SHO Short Sale Price Test Restriction status for the issue at the time of the message dissemination. Allowable values are: "0" = No price test in place "1" = Reg SHO Short Sale Price Test Restriction in effect due to an intra-day price drop in security "2" = Reg SHO Short Sale Price Test Restriction remains in effect

5.2.4   Market-Wide Circuit Breaker (MWCB) Messaging

5.2.4.1 MWCB Decline Level Message

Informs data recipients what the daily MWCB breach points are set to for the current trading day.

MWCB Decline Level Message				
Name	**Offset**	**Length**	**Value**	**Notes**
Message Type	0	1	"V"	Market wide circuit breaker Decline Level Message.
Tracking Number	1	2	Integer	NASDAQ OMX internal tracking number
Timestamp	3	6	Timestamp	Time at which the MWCB Decline Level

Name	Offset	Length	Value	Notes
				message was generated
Level 1	9	8	Price (8)	Denotes the MWCB Level 1 Value.
Level 2	17	8	Price (8)	Denotes the MWCB Level 2 Value.
Level 3	25	8	Price (8)	Denotes the MWCB Level 3 Value.

5.2.4.2 MWCB Status Message

Informs data recipients when a MWCB has breached one of the established levels

MWCB Breach Message				
Name	*Offset*	*Length*	*Value*	*Notes*
Message Type	0	1	"W"	Market-Wide Circuit Breaker Status message
Tracking Number	1	2	Integer	NASDAQ OMX internal tracking number
Timestamp	3	9	Timestamp	Time at which the MWCB Breaker Status message was generated
Breached Level	9	1	Alphanumeric	Denotes the MWCB Level that was breached. "1" = Level 1 "2" = Level 2 "3" = Level 3

5.3 Quotation Message

PSX BBO will broadcast a real-time update every time that the exchange's best bid and offer quote is updated during the trading day.

PSX BBO QUOTATION MESSAGE				
Name	**Offset**	**Length**	**Value**	**Notes**
Message Type	0	1	"Q"	QBBO Quotation Message
Tracking Number	1	2	Integer	NASDAQ OMX internal tracking number
Time Stamp	3	6	Timestamp	Time stamp
Stock	9	8	Alphanumeric	Denotes the PSX market center system issue identifier for which the PSX BBO quotation message is being generated.
Security Class	17	1	Alphanumeric	Indicates the primary listing market for the stock. The allowable values are as follows: **Code** | **Value**

					Q	NASDAQ Listed Issue	
					N	NYSE	
					A	NYSE MKT	
					P	NYSE Arca	
					Z	BATS	
PSX Best Bid Price	18	4	Price (4)		Denotes the PSX best bid price – the highest price for market buy order(s) in the PSX system.		
PSX Best Bid Size	22	4	Integer		Denotes the aggregated number of shares available for display within the PSX market center system at the PSX best bid Price.		
PSX Best Offer Price	26	4	Price (4)		Denotes the PSX exchange's best offer price – the lowest price for market sell order(s) in the PSX system.		
PSX Best Offer Size	30	4	Integer		Denotes the aggregated number of shares available for display within the PSX market center system at the PSX Best Offer Price.		

6 Contact Information

Questions about the PSX Basic entitlement and PSX BBO specification document may be directed to NASDAQ OMX Global Data Products at +1 301 978 5307.

Questions about PSX BBO transmissions may also be directed to NASDAQ OMX Operations Center.

Appendix A

Stock Symbol Convention

For NASDAQ-listed issues, NASDAQ OMX currently restricts its symbol length to a maximum of 8 characters. For common stock issuances, NASDAQ, PSX and BX will only assign root symbols of 1 to 4 characters in length with possible fifth and or sixth character denoting a suffix. In certain instances, a dot "." delimiter may be applied to symbols after the root and between the suffix eg., XXXX.A. For subordinate securities, NASDAQ and BX will assign a 5 character symbol for which the last character relays information about the issue class or issue type. For the current list of fifth and or six character symbol suffixes, please refer to Ticker Symbol Convention page on the NASDAQ OMX Trader website.

For NYSE-, NYSE MKT- and NYSE Arca-listed securities with subordinate issue types, please refer to Ticker Symbol Convention page on the NASDAQ OMX Trader website.

Appendix B

Trading Action Reason Codes

For NASDAQ-listed issues, NASDAQ acts as the primary market and has the authority to institute a trading halt or trading pause in an issue due to news dissemination or regulatory reasons.

For CQS issues, NASDAQ, BX and PSX abide by any regulatory trading halts and trading pauses instituted by the primary or listing market as appropriate.

For all issue types, NASDAQ, BX and/or PSX may also halt trading for operational reasons.

NASDAQ, BX and/or PSX will send out a trading action message to inform its market participants when the trading status of an issue changes. For informational purposes, NASDAQ and PSX also attempt to provide the reason for each trading action update. For bandwidth efficiency reasons, NASDAQ, BX and PSX use a 4-byte code for the reason on its outbound data feeds.

REASON CODES FOR TRADING HALT ACTIONS	
Code	Value
T1	Halt News Pending
T2	Halt News Disseminated
T5	Single Security Trading Pause In Affect
T6	Regulatory Halt — Extraordinary Market Activity
T8	Halt ETF
T12	Trading Halted; For Information Requested by Listing Market
H4	Halt Non-Compliance
H9	Halt Filings Not Current
H10	Halt SEC Trading Suspension
H11	Halt Regulatory Concern
O1	Operations Halt; Contact Market Operations
LUDP	Volatility Trading Pause
LUDS	Volatility Trading Pause – Straddle Condition
MWC1	Market Wide Circuit Breaker Halt – Level 1
MWC2	Market Wide Circuit Breaker Halt – Level 2
MWC3	Market Wide Circuit Breaker Halt – Level 3
MWC0	Market Wide Circuit Breaker Halt – Carry over from previous day
IPO1	IPO Issue Not Yet Trading
M1	Corporate Action
M2	Quotation Not Available
<space>	Reason Not Available

REASON CODES FOR QUOTATION/TRADING RESUMPTION ACTIONS	
Code	Value
T3	News and Resumption Times
T7	Single Security Trading Pause / Quotation Only Period
R4	Qualifications Issues Reviewed/Resolved; Quotations/Trading to Resume
R9	Filing Requirements Satisfied/Resolved; Quotations/Trading To Resume
C3	Issuer News Not Forthcoming; Quotations/Trading To Resume
C4	Qualifications Halt ended; Maintenance Requirements Met; Resume

C9	Qualifications Halt Concluded; Filings Met; Quotes/Trades To Resume
C11	Trade Halt Concluded By Other Regulatory Auth.; Quotes/Trades Resume
MWCQ	Market Wide Circuit Breaker Resumption
R1	New Issue Available
R2	Issue Available
IPOQ	IPO Security Released for Quotation (NASDAQ OMX Securities Only)
IPOE	IPO Security — Positioning Window Extension (NASDAQ OMX Securities Only)
<space>	Reason Not Available

For the current list of regulatory halts, please refer to the [Trading Halts page](#) on the NASDAQ OMX Trader website.

Appendix C - Issue Classification Values

Identifies the security class for the issue as assigned by NASDAQ

CODES FOR ISSUE CLASSIFICATION VALUES	
Code	**Value**
A	American Depositary Share
B	Bond
C	Common Stock
F	Depository Receipt
I	144A
L	Limited Partnership
N	Notes
O	Ordinary Share
P	Preferred Stock
Q	Other Securities
R	Right
S	Shares of Beneficial Interest
T	Convertible Debenture
U	Unit
V	Units/Benif Int
W	Warrant

Appendix D - Issue Sub-Type Values

CODES FOR ISSUE CLASSIFICATION VALUES	
Code	**Value**
A	Preferred Trust Securities
AI	Alpha Index ETNs
B	Index Based Derivative
C	Common Shares
CB	Commodity Based Trust Shares
CF	Commodity Futures Trust Shares
CL	Commodity-Linked Securities
CM	Commodity Index Trust Shares
CO	Collateralized Mortgage Obligation
CT	Currency Trust Shares
CU	Commodity-Currency-Linked Securities
CW	Currency Warrants
D	Global Depositary Shares
E	ETF-Portfolio Depositary Receipt
EG	Equity Gold Shares
EI	ETN-Equity Index-Linked Securities
EN	Exchange Traded Notes
EU	Equity Units
F	HOLDRS
FI	ETN-Fixed Income-Linked Securities
FL	ETN-Futures-Linked Securities
G	Global Shares
I	ETF-Index Fund Shares
IR	Interest Rate
IW	Index Warrant
IX	Index-Linked Exchangeable Notes
J	Corporate Backed Trust Security
L	Contingent Litigation Right
LL	Identifies securities of companies that are set up as a Limited Liability Company (LLC)
M	Equity-Based Derivative
MF	Managed Fund Shares
ML	ETN-Multi-Factor Index-Linked Securities
MT	Managed Trust Securities
N	NY Registry Shares
O	Open Ended Mutual Fund
P	Privately Held Security
PP	Poison Pill
PU	Partnership Units
Q	Closed-End Funds

R	Reg-S
RC	Commodity-Redeemable Commodity-Linked Securities
RF	ETN-Redeemable Futures-Linked Securities
RT	REIT
RU	Commodity-Redeemable Currency-Linked Securities
S	SEED
SC	Spot Rate Closing
SI	Spot Rate Intraday
T	Tracking Stock
TC	Trust Certificates
TU	Trust Units
U	Portal
V	Contingent Value Right
W	Trust Issued Receipts
WC	World Currency Option
X	Trust
Y	Other
Z	Not Applicable

Appendix E

Documentation Version Control Log

December 5, 2014: PSX BBO Version 2.00
The PSX BBO Specification was updated to include missing Issue Sub-Type Codes
(Appendix D):
- AI – Alpha Indexes ETNs
- CO – Collateralized Mortgage Obligation
- EU – Equity Units
- F – HOLDRS
- IR – Interest Rate
- IW – Index Warrant
- J – Corporate Backed Trust Security
- PP – Poison Pill
- Q – Closed -End Funds
- RT – REIT
- SC – Spot Rate Closing
- SI – Spot Rate Intraday
- WC – World Currency Option
- X – Trust
- Y – Other
- Z – NA

October 1, 2013: PSX Best Bid and Offer (PX BBO) 2.00
Released a new version of PSX BBO documentation to support the following changes:
- Conversion to binary

August 2, 2013: PSX Best Bid and Offer (PX BBO) 2.00
Released a new version of PX BBO documentation to support the following changes:
- Inclusion of the Appendices for Issue Classification and Issue Sub-Type
- Updated offsets in the Symbol Directory Message
- Updated offsets and lengths for the MWCB Decline Level Message
- Renamed the Compliance ID field to TrackingID

July 10, 2013: PSX Best Bid and Offer (PX BBO) 2.00
The PX BBO Specification was updated to reflect the following changes:
- Added Enhanced Symbol Directory
- Added Market-Wide Circuit Breaker (MWCB) Messaging
  - MWCB Decline Level Message
  - MWCB Status Message
- Addition of an internal tracking number to multiple messages
- Addition of 'C' to the Financial Status Indicator field in the Symbol Directory Message

March 11, 2013: PSX Best Bid and Offer (PX BBO) 1.1
NASDAQ OMX added the following Trading Action Reason Code for LULD to reflect when
the National Best Bid is below the lower price band and/or the National Best Offer is
above than the upper price band and the NMS Stock is not in a Limit State.
- LUDS - Volatility Trading Pause – Straddle Condition

January 9, 2013: PSX Best Bid and Offer (PX BBO) 1.1
NASDAQ OMX added the following Trading Action Reason Code:
- MWC0 - Market Wide Circuit Breaker Halt – Carry over from previous day

January 8, 2013: PSX Best Bid and Offer (PX BBO) 1.1
NASDAQ OMX removed the Trading Action State, "P", from the Stock Trading Message.

November 6, 2012: PSX Best Bid and Offer (PX BBO) 1.1
Released a new version of the PX BBO documentation to support the following changes:
- Added the "P" value to the Trading State in the Stock Trading Message.
- Modified the values for the Trading Action Reason Codes. Added the following codes:
  - LUDP - Volatility Trading Pause
  - MWC1 - Market Wide Circuit Breaker Halt – Level 1
  - MWC2 - Market Wide Circuit Breaker Halt – Level 2
  - MWC3 - Market Wide Circuit Breaker Halt – Level 3
  - MWCQ - Market Wide Circuit Breaker Resumption
- Removed the Trading Action values related to the Volatility Guard Program. Removed Trading State, "V". Eliminated Trading Action Reason Codes, V1 and V2.

November 1, 2011: PSX Best Bid and Offer (PX BBO) 1.1
NASDAQ OMX added a new Market Center code, "Z", for BATS-listed securities to the Market Category and Security Class fields.

July 14, 2010: PSX Best Bid and Offer (PX BBO) 1.1
NASDAQ OMX added a new Regulation SHO Short Sale Price Test Restricted Indicator message format to be introduced in the fourth quarter of 2010.

July 2, 2010: PSX Best Bid and Offer (PX BBO) 1.1
NASDAQ OMX added new Action Trading code(s) to the Stock Trading Action message for the NASDAQ Volatility Guard trading pause.

May 25, 2010 : PSX Best Bid and Offer (PX BBO) 1.1

Inclusion of two new Trading Action Reason code values (T5 and T7) for single security trading pause situations

March 26, 2010 : PSX Best Bid and Offer (PX BBO) 1.1

Inclusion of EMC (Emergency Market Conditions) System Event Codes

February 26, 2010 : PSX Best Bid and Offer (PX BBO) 1.1

Initial release of PSX documentation.

(Note: For cross market consistency, PSX is using the same version numbers as the NASDAQ and BX markets.   There will be no PX BBO 1.0.)