



Market Information System
FLEX Connection Specifications
Realtime Message (Standard)

Ver.DS.17.3

Applicable from April 1, 2021.

Tokyo Stock Exchange

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FLEX Connection Specifications (Standard)		Revision History		
No.	Release date	Revision No.	Remarks	
1	2019.11.05	Ver.DS.17.0	Newly created. There is no change from Ver.TS.16.3.	
2	2020.02.28	Ver.DS.17.1	No change	
3	2021.02.01	Ver.DS.17.2	Minor changes	
4	2020.04.01	Ver.DS.17.3	Minor changes	
			Sheet No.	1/1
		IT Development, Tokyo Stock Exchange		

FLEX Connection Specifications (Standard)				
Modification	Ver.DS.17.0	Document History		
No.	Subject	Description	Page	Type
1	Newly Created			
			Sheet No.	1/1
	IT Development, Tokyo Stock Exchange			

FLEX Connection Specifications (Standard)				
Modification	Ver.DS.17.1	Document History		
No.	Subject	Description	Page	Type
1	No Change			
			Sheet No.	1/1
	IT Development, Tokyo Stock Exchange			

FLEX Connection Specifications (Standard)				
Modification	Ver.DS.17.2	Document History		
No.	Subject	Description	Page	Type
1	Issue Realtime Message	Modified the description in Medium Classification of Stock-related to refer to "Common Items".	From 2-3 to 2-5	MODIFY
			Sheet No.	1/1
	IT Development, Tokyo Stock Exchange			

FLEX Connection Specifications (Standard)				
Modification	Ver.DS.17.3	Document History		
No.	Subject	Description	Page	Type
1	3.2. Combination of Ask/Bid Section of Quote Message	Added missing patterns in '3.2.1. Quote 1'.	3-3	MODIFY
			Sheet No.	1/1
	IT Development, Tokyo Stock Exchange			

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1. OUTLINE

1.1. Purpose

This document contains information on the types and formats of messages concerning stock • CB issue for TSE market information system FLEX circuit (Standard, Standard (WB)).

1.2. FLEX Standard

FLEX Standard is the service to send market information about quotes, trade prices, trading volumes, turnovers and etc.

The message specifications and contents of FLEX Standard (WB) and FLEX Standard are the same.

2. USER DATA SECTION

The user data section is edited by combining different tags.

2.1. Definition of Tags

Tags are used as a means of outputting information. Different tags are used for different information classifications; the same tag is never used for different message types. When information to be newly output occurs, a tag may be newly set for such information. Therefore, each client system should be designed to allow the operator to determine specific tags to be used and to receive and dispose of such tags where the operator considers it appropriate.

2.1.1. Basic Tag Format

Each tag has its own format. For formats of different tags, refer to “2.4 Information Concerning Individual Tags”.
The following diagram shows the basic format of tags.

Tag ID	Reserved	Data of Information (Format Varies Among Different Tag IDs)
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- * Tag ID is numbered using 1 to 9 and A to Z.
- * “Reserved” is not added to NO tag.

2.1.2. Output Conditions for Tags

For output conditions for each tag, refer to 2.4 Information Concerning Individual Tags.

2.2. List of Tags Used for Each Message Type

2.2.1. Issue Realtime Message

Item No.	Tag ID	Name	Description
1	NO	Update No	Update No
2	ST	Status Information	Status Information
3	4P	Open, High, Low and Current price	Open, High, low and Current Price Information
4	Q1	Quote 1	Quote Information (Ask and Bid Quotes with Highest Priority)
5	Q2	Quote 2	Quote Information (1 quote each above and below Quote 1). When Quote 2 is sent, Quote 1 is also sent.
6	Q3	Quote 3	Quote Information (1 quote each above and below Quote 2). When Quote 3 is sent, Quotes 1 and 2 are also sent.
7	Q4	Quote 4	Quote Information (1 quote each above and below Quote 3). When Quote 4 is sent, Quotes 1, 2 and 3 are also sent.
8	Q5	Quote 5	Quote Information (1 quote each above and below Quote 4). When Quote 5 is sent, Quotes 1, 2, 3 and 4 are also sent.
9	Q6	Quote 6	Quote Information (1 quote each above and below Quote 5). When Quote 6 is sent, Quotes 1, 2, 3, 4 and 5 are also sent.
10	Q7	Quote 7	Quote Information (1 quote each above and below Quote 6). When Quote 7 is sent, Quotes 1, 2, 3, 4, 5 and 6 are also sent.
11	Q8	Quote 8	Quote Information (1 quote each above and below Quote 7). When Quote 8 is sent, Quotes 1, 2, 3, 4, 5, 6 and 7 are also sent.
12	Q9	Quote 9	Quote Information (1 quote each above and below Quote 8). When Quote 9 is sent, Quotes 1, 2, 3, 4, 5, 6, 7 and 8 are also sent.
13	QA	Quote 10	Quote Information (1 quote each above and below Quote 9). When Quote 10 is sent, Quotes 1, 2, 3, 4, 5, 6, 7, 8 and 9 are also sent.
14	QM	Market Order	Market Order (Ask and Bid Quantity)
15	QO	OVER/UNDER	Quote Information (Total of Quote 11 (Ask) and above or Quote 11 (Bid) and below).
16	VL	Trading Volume	Information concerning intraday cumulative Trading Volume.
17	VA	Turnover	Information concerning intraday cumulative Turnover.
18	VW	VWAP	Information concerning volume weighted average price.
19	PA	Parity	Information consisting of Parity and estimated price.
20	YI	Yield	Yield Information.

2.2.2. Control message

Item No.	Tag ID	Name	Description
21	LC	Control	Various types of Control Information.

2.3. List of Issue Classification Codes/Applicable Tags

2.3.1. Issue Realtime Message – new

Only the changed tag is set.

Tags in the same message are set in the order of "NO" through "YI" as described below.

Message Type	Issue Classification Code		Tag ID Name Exchange Code	NO	ST	4P	Q1	Q2 - QA	QM	QO	VL	VA	VW	PA	YI
				Update No.	Status Information	Open, High, Low and Current Price	Quote 1	Quote 2-10	Market Order	UNDER/OVER	Trading Volume	Turnover	VWAP	Parity	Yield
Issue Realtime Message new (100)	Stock-Related (01)	Refer to (6) Issue Classification Code of '5.3.3. Service Header' in Common Items.	-	*	*	*	*	*	*	*	*	*	*		
	CB-Related (02)	CB (11) SW(13) *1*4 Exchangeable Bond(14) *1	1 (TSE)	*	*	*	*	*	*	*	*	*	*	*/2	*/3
			3 (NSE)	*	*	*	*	*	*	*	*	*	*	*	*

*1: Only TSE handles this Classification.

*2: Information is not sent for Exchangeable Bonds.

*3: Information is not sent for SW.

*4: It is not used for time being.

2.3.2. Issue Realtime Message – Backup

All the applicable tags are set and sent. (Space is set in the tag which has no information)

Tags in the same message are set in the order of "NO" through "YI" as described below.

Message Type	Issue Classification Code		Tag ID Name Exchange Code	NO	ST	4P	Q1	Q2 - QA	QM	QO	VL	VA	VW	PA	YI
				Update No.	Status Information	Open, High, Low and Current Price	Quote 1	Quote 2-10	Market Order	UNDER/OVER	Trading Volume	Turnover	VWAP	Parity	Yield
Issue Realtime Message Backup (101)	Stock-Related (01)	Refer to (6) Issue Classification Code of '5.3.3. Service Header' in Common Items.	-	*	*	*	*	*	*	*	*	*	*		
	CB-Related (02)	CB (11) SW(13) *1*4 Exchangeable Bond(14) *1	1 (TSE)	*	*	*	*	*	*	*	*	*	*	*/2	*/3
			3 (NSE)	*	*	*	*	*	*	*	*	*	*	*	*

*1: Only TSE handles this classification.

*2: Information is not sent for Exchangeable Bonds.

*3: Information is not sent for SW.

*4: It is not used for time being.

2.3.3. Issue Realtime Message – All-Day

All the applicable tags are set and sent. (Space is set in the tag which has no information)

Tags in the same message are set in the order of "ST" through "YI" as described below.

Message Type	Issue Classification Code		Tag ID Name Exchange code	ST	4P	Q1	VL	VA	VW	PA	YI
				Status Information	Open, High, Low and Current Price	Quote 1	Trading Volume	Turnover	VWAP	Parity	Yield
	Large Classification	Medium Classification									
Issue Realtime Message All-Day (102)	Stock-Related (01)	Refer to (6) Issue Classification Code of '5.3.3. Service Header' in Common Items.	-	*	*	*	*	*	*		
	CB-Related (02)	CB (11) SW(13) *1*4 Exchangeable Bond(14) *1	1 (TSE)	*	*	*	*	*	*	*/2	*/3
			3 (NSE)	*	*	*	*	*	*	*	*

*1: Only TSE handles this classification.

*2: Information is not sent for Exchangeable Bonds.

*3: Information is not sent for SW.

*4: It is not used for time being.

2.3.4. Control Message

Message Type	Issue Classification Code	Tag ID Name	LC
		Exchange Code	Control
Control Message (900,905)	-	-	*
Control Message (904)	-	-	*
Control Message (909)	-	-	*
Control Message (990)	-	-	*

2.4. Information Concerning Individual Tags

The following pages describe the output conditions and the formats of individual tags.

The table below shows the main references for output condition or format, etc.

Item No.	Name	Reference document	Reference item
1	Price	Common Items 5.3.5. General Rules for Data Sets	(1) Price, Parity, VWAP, Index
2	All-Day VWAP		
3	Current-Session VWAP		
4	Trading Volume		(2) Trading Volume, Turnover
5	Turnover		
6	Quote Quantity		(3) Quote Quantity, Number of Order
7	Parity		(4) Yield
8	Time		(5) Time
9	Sequence to Send Backup and All-Day Information	Common Items 6.4. Sequence of Backup Information /All-Day Information/Refreshment Information /Issue Basic Information (Base Price, Issue Information and Multicast Group Number Information)	Same as on the left.
10	applicable issues	2.3. List of Issue Classification Codes/Applicable Tags	Same as on the left.

NO: Update No.

1. Format (10 bytes)

Tag ID	Update No.
(2)	(8)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content</p> <p>In this tag, Update Number for each issue is set.</p> <p>This tag appears as part of realtime data.</p> <p>The output parts of the same information that is output from 2 Lines (Line1 and Line2) share the same Update Number.</p> <p>This tag is not set when sending only Parity tag.</p> <p>When All-Day Information is sent, this tag is not set.</p> <p>2. Output Condition</p> <p>(1) When Issue Realtime Message is sent</p> <p>(2) When Backup Information is sent</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates that this is an update number tag.	“NO” is set.
2	Update No.	2	8	C	Indicates the update number. Larger update number indicates newer data. This number is updated by one every time new information is sent.	When outputting Backup Information, the same Update Number as the one that was previously transmitted is utilized.

ST: Status Information.**1. Format (26 bytes)**

Tag ID	Reserved	Change Flag	Status Information (5)			Time	Reserved
			Issue Status	State Flag	Short Selling Regulation Flag		
(2)	(2)	(1)	(2)	(2)	(1)	(12)	(4)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content</p> <p>In this tag, status information (Issue Status, State Flag and Short Selling Regulation Flag) is set. This tag appears as part of realtime data. When ST tag is sent, Status of issue status, State flag or Short Selling Regulation Flag at that moment is set.</p> <p>2. Output Condition</p> <p>(1) When beginning to accept orders (2) At the beginning of the session (except during Trading Halt or Trading Suspension) (3) At the end of the session (4) When Issue Realtime Message is sent (except Parity Information) (5) When Backup Information is sent (6) When All-Day Information is sent</p>	Refer to “3.5 Sending status information” for the example of status information.

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates status information tag.	"ST" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Change Flag	4	1	C	For issue status, state flag or short selling regulation flag, indicates whether this has changed or not.	1: Changed. Space: Not Changed. "1" is set when Issue Status, State Flag or Short Selling Regulation Flag is changed. Space is set when this tag is sent as Backup Information or All-Day Information.
4	Status Information	5	5		Indicates status information	
	Issue Status	(5)	(2)	C	Indicates issue status.	00: Out of Session*1 10: Accepting Order Input 20: During Trading Session 30: Not Accepting Order Input 40: Close of Session *1 It is not used for time being.
	State Flag	(7)	(2)	C	Indicates the state of the trade	A0: Trading Halt(Accepting Order Input) A1: Release of Trading Halt B0: Itayose B1: Release of Itayose C0: Trading Suspension C1: Release of Trading Suspension D0: Trading Halt(Not Accepting Order Input) Space: Other than the above B0: Indicate Itayose for Trading Suspension after removal of Special Quote B1: Indicate exit from Itayose when Trading Suspension is removed after removal of Special Quote
	Short Selling Regulation Flag	(9)	(1)	C	Indicates whether short selling regulation applies or not.	0: Short selling regulation does not apply. 1: Short selling regulation is applied.
5	Time	10	12	C	Indicates the changed time of Status Change Information (Issue Status, State Flag or Short Selling Regulation Flag).	It is specified as "HHMMSSttttt".
6	Reserved	22	4	C	This item is reserved.	

4P: Open, High, Low and Current Price

1. Format (107 bytes)

Tag ID	Reserved	Open (23)					High (24)					Low (24)					Current (32)						
		Price (16)			Time	Change Flag	Limit Up Flag	Price (16)			Time	Change Flag	Limit Down Flag	Price (16)			Time	Change Flag	Reserved	Closing Price Input			
		Unit Flag	Price	Sign				Unit Flag	Price	Sign				Unit Flag	Price	Sign							
(2)	(2)	(1)	(14)	(1)	(6)	(1)	(1)	(14)	(1)	(6)	(1)	(1)	(14)	(1)	(6)	(1)	(1)	(14)	(1)	(12)	(1)	(2)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content</p> <p>In this tag, Open, High, Low and Current Price and other information are set.</p> <p>This tag appears as part of realtime data.</p> <p>When All-Day Information is sent, all-day Open, High, Low and Current Price are set in this tag.</p> <p>In other cases, Open, High, Low and Current Price in the session specified in the Service Header part are set.</p> <p>2. Output Condition</p> <p>(1) Upon new occurrence of trade price information including Same Price Execution.</p> <p>(2) When ZARABA close (including close on Trading Halt or Trading Suspension)</p> <p>(3) When Backup Information is sent</p> <p>(4) When All-Day Information is sent</p>	

3. Detailed Format

Item No.	Name		Location	Byte Count	Format	Description	Setting Condition
1	Tag ID		0	2	C	Indicates that this is the Open, High, Low and Current Price tag.	“4P” is set.
2	Reserved		2	2	C	This item is reserved.	
3	Open		4	23		Indicates opening price.	
	Price	Unit Flag	(4)	(1)	C	Indicates unit flag.	
		Price	(5)	(14)	C	Indicates opening price.	When there is No Opening Price, spaces are set.
		Sign	(19)	(1)	C	Indicates sign.	“+” or space is set.
	Time		(20)	(6)	C	Indicates the time at which the trade at the opening price was established.	It is specified as “HHMMSS” When there is No Opening Price, space is set.
	Change Flag		(26)	(1)	C	Indicates whether this has changed or not.	1: Changed. Space: Not Changed.
							Space is set when this tag is sent as Backup or All-Day Information.
4	High		27	24		Indicates the highest price.	
	Limit Up Flag		(27)	(1)	C	Indicates limit up.	1: Limit Up. Space: Other than the above.
	Price	Unit Flag	(28)	(1)	C	Same as the opening price. (Replace "opening" with "highest".)	
		Price	(29)	(14)	C		
		Sign	(43)	(1)	C		
	Time		(44)	(6)	C		
	Change Flag		(50)	(1)	C		
5	Low		51	24		Indicates the lowest price.	
	Limit Down Flag		(51)	(1)	C	Indicates limit down.	1: Limit Down. Space: Other than the above.
	Price	Unit Flag	(52)	(1)	C	Same as the opening price. (Replace "opening" with "lowest".)	
		Price	(53)	(14)	C		
		Sign	(67)	(1)	C		
	Time		(68)	(6)	C		

		Change Flag	(74)	(1)	C		
6	Current		(75)	(32)		Indicates the current price.	
	Price	Unit Flag	(75)	(1)	C	Same as the opening price. (Replace "opening" with "current".)	
		Price	(76)	(14)	C		
		Sign	(90)	(1)	C		
	Time		(91)	(12)	C	Indicates the time of execution of the current price.	It is specified as "HHMMSSttttt". When there is No Current Price, space is set.
	Change Flag		(103)	(1)	C	Same as the opening price.	
	Reserved		(104)	(2)	C	This item is reserved.	
	Closing Price Input Flag		(106)	(1)	C	Indicates whether a closing price was reached.	1: When the trade isn't established at closing (ZARABA Close). 2: When the trade is established with closing (Close at the Closing Price). Space: Other than the above.

Q1: Quote 1

1. Format (96 bytes)

Tag ID	Reserved	Ask Quote (46)									Bid Quote (46)								
		Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)			Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)		
			Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign		Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, quote 1 (Ask and Bid Quotes with the Highest Priority) information is set. This tag appears as part of realtime data.</p> <p>2. Output Condition (1) Upon new occurrence or change in any of Quote 1 to Quote 10 (Ask and Bid Quotes with the 10th Highest Priority) information* (2) When Backup Information is sent (3) When All-Day Information is sent</p> <p>* Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates the Quote 1 tag.	"Q1" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Ask Quote	4	46		Indicates ask quote.	<p>In case that Special ask Quote before trading halt and Sequential Trade ask Quote before trading halt, space is set in time and Quote quantity.</p> <p>When Trading Halt or Trading Suspension occurs, "1" is set in the change flag and "space" is set in other items if Quote 1 information exists just before the Trading Halt or Trading Suspension. (except the case that Special Quote or Sequential Trade Quote exists just before the Trading Halt or Trading Suspension.)</p> <p>When All-Day Information is sent, this is set only if a Special Quote, Sequential Trade Quote, Special Quote Before Trading Halt or Sequential Trade Quote Before Trading Halt is displayed.</p> <p>With regard to the following information, even if the Special bid Quote or Sequential Trade bid Quote is set, spaces are set for price, time, flag and Quote quantity of ask Quote.</p> <ul style="list-style-type: none"> • All-Day Information • Information on Special Bid Quote Before Trading Halt and Sequential Trade Bid Quote Before Trading Halt
	Change Flag	(4)	(1)	C	Indicates whether the quote has changed or not.	<p>1: Changed. Space: Not Changed.</p> <p>Space is set when this tag is sent as Backup Information or All-Day Information.</p>
	Price	Unit Flag	(5)	(1)	C	Indicates the unit flag.
		Price	(6)	(14)	C	<p>Indicates the quote price.</p> <p>If there is no quote, or if all quotes have been cancelled, spaces are set.</p> <p>If the Special bid Quote or Sequential Trade bid Quote is set in this tag, regardless of whether there is any quantity in ask quote, the same price as the one in bid is set.</p>
		Sign	(20)	(1)	C	Indicates sign of price. "+ " or space is set.

		Time	(21)	(12)	C	Indicates the time at which the quote occurs.	<p>It is specified as "HHMMSSttttt".</p> <p>In case both ask and bid quotes exist, set the same time in ask and bid.</p> <p>If a Special Quote or Sequential Trade Quote is displayed, there are some cases different time is set.</p> <p>If there are no quotes, or if all quotes have been cancelled, spaces are set.</p> <p>If a special ask quote or Sequential Trade ask quote is displayed, set the time when that quote occurs, is renewed or modified. (If only quantities of quote are changed, time is not renewed.)</p> <p>If a Special bid Quote or Sequential Trade bid Quote is displayed, set the time when any Q1 to QA bid or ask quote occurs, is renewed or modified.</p>
		Quote Flag	(33)	(1)	C	Indicates the type of the quote.	<p>0 : Quote Before Opening *1</p> <p>1 : General Quote *2*6</p> <p>2 : General Quote(Buying-Up or Selling-Down)*3*6</p> <p>3 : Special Quote</p> <p>4 : Sequential Trade Quote</p> <p>5 : -</p> <p>6 : -</p> <p>7 : Special Quote Before Trading Halt *4</p> <p>8 : Sequential Trade Quote Before Trading Halt *5</p> <p>Space: When there are no quotes or all quotes are cancelled</p> <p>*1 In case that general quote is displayed just before closing, this flag of stock issue that closing price is not generated as a result of closing auction sets "0"(Quote Before Opening). In case that general quote is displayed just before closing, this flag of CB issue sets "0"(Quote Before Opening).</p> <p>*2 1 is set while Special bid Quote/ Sequential Trade bid Quote is displayed</p> <p>*3 It is set during Buying-Up by the Sequential Trade Quote.</p> <p>*4 It is set when Trading Halt or Trading Suspension occurs while Special Quote is displayed.</p> <p>*5 It is set when Trading Halt or Trading Suspension occurs while Sequential Trade Quote is displayed.</p> <p>*6 For details about General Quote (Buying-Up or Selling-Down), refer to 3.4 Example of Buying-Up/Selling-Down.</p>
		Quote Quantity Trading Volume/ Turnover Unit Flag	(34)	(1)	C	Indicates that this is the trading volume/turnover unit flag.	

			Quantity	(35)	(14)	C	Indicates the quantity for this quote.	<p>If there are no quotes, or if all quotes have been cancelled, spaces are set.</p> <p>In case of quote before opening, it indicates aggregate quantity of asks at price lower than and equal to that price.</p> <p>In case of Special ask Quote or Sequential Trade ask Quote, it indicates the aggregate quantities of such quote and quotes with higher priority.</p> <p>If there is no quantity, space is set.</p> <p>When All-Day Information is sent, space is set.</p> <p>When closing auction is executed at Limit Price displaying Special Quote, quantity of Market Order which remains is not included in this quantity.</p>		
			Sign	(49)	(1)		Indicates sign of Quote quantity.	“+” or space is set.		
4			Bid Quote		50	46		Indicates that this is a bid quote.		
			Price	Change Flag		(50)	(1)	C		Same as ask quote. (Replace "ask quote", "Special Ask Quote" and “ Sequential Trade Ask Quote”with "Bid Quote", "Special Bid Quote" and “ Sequential Trade Bid Quote” respectively.)
				Unit Flag		(51)	(1)	C		
				Price		(52)	(14)	C		
				Sign		(66)	(1)	C		
			Time		(67)	(12)	C			
			Quote Flag		(79)	(1)	C			
			Quote Quantity	Trading Volume/ Turnover Unit Flag		(80)	(1)	C		
Quantity		(81)		(14)	C					
Sign		(95)		(1)	C					

Q2: Quote 2

1. Format (96 bytes)

Tag ID	Reserved	Ask Quote (46)									Bid Quote (46)								
		Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)			Change Flag	Price (16)			Time	Quote flag	Quote Quantity (16)		
			Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign		Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, Quote 2 (ask and bid quotes with the 2nd Highest Priority) information is set. This tag appears as part of realtime data.</p> <p>2. Output Condition (1) Upon new occurrence or change in Quote 2 to Quote 10 Information* (2) When Backup Information is sent</p> <p>* Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates quote 2 tag.	"Q2" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Ask Quote	4	46	C	Indicates 2nd ask quote and bid quote.	Except for the following, same as Quote 1.
4	Bid Quote	50	46	C		<ul style="list-style-type: none"> • 1 or a space is used for the quote flag. • Set 1(General quote) in the quote flag even if Quote before opening, Special Quote or Sequential Trade Quote is set in Q1 tag. • While both ask and bid quote prices are displayed, set the same time in ask and bid. • In case Q2 information exists just before Trading Halt/Trading Suspension occurs. ("1" is set in the change flag and "space" is set in other items.)

Q3: Quote 3

1. Format (96 bytes)

Tag ID	Reserved	Ask Quote (46)									Bid Quote (46)								
		Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)			Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)		
			Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign		Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, Quote 3 (ask and bid quotes with the 3rd Highest Priority) information is set. This tag appears as part of realtime data.</p> <p>2. Output Condition (1) Upon new occurrence or change in Quote 3 to Quote 10 Information* (2) When Backup Information is sent</p> <p>* Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates quote 3 tag.	"Q3" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Ask Quote	4	46	C	Indicates 3rd ask quote and bid quote.	Except for the following, same as Quote 1.
4	Bid Quote	50	46	C		<ul style="list-style-type: none"> • 1 or a space is used for the quote flag. • Set 1(General quote) in the quote flag even if Quote before opening, Special Quote or Sequential Trade Quote is set in Q1 tag. • While both ask and bid quote prices are displayed, set the same time in ask and bid. • In the case Q3 information exists just before Trading Halt/Trading Suspension occurs. ("1" is set in the change flag and "space" is set in other items.)

Q4: Quote 4

1. Format (96 bytes)

Tag ID	Reserved	Ask quote (46)									Bid quote (46)								
		Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)			Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)		
			Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign		Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, Quote 4 (ask and bid quotes with the 4th Highest Priority) information is set. This tag appears as part of realtime data.</p> <p>2. Output Condition (1) Upon new occurrence or change in Quote 4 to Quote 10 Information* (2) When Backup Information is sent</p> <p>* Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates that this is the quote 4 tag.	"Q4" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Ask Quote	4	46	C	Indicates 4th ask quote and bid quote.	Except for the following, same as Quote 1.
4	Bid Quote	50	46	C		<ul style="list-style-type: none"> • 1 or a space is used for the quote flag. • Set 1(General quote) in the quote flag even if Quote before opening, Special Quote or Sequential Trade Quote is set in Q1 tag. • While both ask and bid quote prices are displayed, set the same time in ask and bid. • In the case Q4 information exists just before Trading Halt/Trading Suspension occurs. ("1" is set in the change flag and "space" is set in other items.)

Q5: Quote 5

1. Format (96 bytes)

Tag ID	Reserved	Ask quote (46)									Bid quote (46)								
		Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)			Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)		
			Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign		Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, Quote 5 (ask and bid quotes with the 5th Highest Priority) information is set. This tag appears as part of realtime data.</p> <p>2. Output Condition (1) Upon new occurrence or change in Quote 5 to Quote 10 Information* (2) When Backup Information is sent</p> <p>* Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates quote 5 tag.	"Q5" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Ask Quote	4	46	C	Indicates 5th ask quote and bid quote.	Except for the following, same as Quote 1.
4	Bid Quote	50	46	C		<ul style="list-style-type: none"> • 1 or a space is used for the quote flag. • Set 1(General quote) in the quote flag even if Quote before opening, Special Quote or Sequential Trade Quote is set in Q1 tag. • While both ask and bid quote prices are displayed, set the same time in ask and bid. • In the case Q5 information exists just before Trading Halt/Trading Suspension occurs. ("1" is set in the change flag and "space" is set in other items.)

Q6: Quote 6**1. Format (96 bytes)**

Tag ID	Reserved	Ask quote (46)									Bid quote (46)								
		Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)			Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)		
			Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign		Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, Quote 6 (ask and bid quotes with the 6th Highest Priority) information is set. This tag appears as part of realtime data.</p> <p>2. Output Condition (1) Upon new occurrence or change in Quote 6 to Quote 10 Information* (2) When Backup Information is sent</p> <p>* Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates quote 6 tag.	"Q6" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Ask Quote	4	46	C	Indicates 6th ask quote and bid quote.	Except for the following, same as Quote 1.
4	Bid Quote	50	46	C		<ul style="list-style-type: none"> • 1 or a space is used for the quote flag. • Set 1(General quote) in the quote flag even if Quote before opening, Special Quote or Sequential Trade Quote is set in Q1 tag. • While both ask and bid quote prices are displayed, set the same time in ask and bid. • In the case Q6 information exists just before Trading Halt/Trading Suspension occurs. ("1" is set in the change flag and "space" is set in other items.)

Q7: Quote 7**1. Format (96 bytes)**

Tag ID	Reserved	Ask quote (46)									Bid quote (46)								
		Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)			Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)		
			Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign		Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, Quote 7 (ask and bid quotes with the 7th Highest Priority) information is set. This tag appears as part of realtime data.</p> <p>2. Output Condition (1) Upon new occurrence or change in Quote 7 to Quote 10 Information* (2) When Backup Information is sent</p> <p>* Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates quote 7 tag.	“Q7” is set.
2	Reserved	2	2	C	This item is reserved.	
3	Ask Quote	4	46	C	Indicates 7th ask quote and bid quote.	Except for the following, same as Quote 1.
4	Bid Quote	50	46	C		<ul style="list-style-type: none"> • 1 or a space is used for the quote flag. • Set 1(General quote) in the quote flag even if Quote before opening, Special Quote or Sequential Trade Quote is set in Q1 tag. • While both ask and bid quote prices are displayed, set the same time in ask and bid. • In the case Q7 information exists just before Trading Halt/Trading Suspension occurs. (“1” is set in the change flag and “space” is set in other items.)

Q8: Quote 8**1. Format (96 bytes)**

Tag ID	Reserved	Ask quote (46)									Bid quote (46)								
		Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)			Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)		
			Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign		Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, Quote 8 (ask and bid quotes with the 8th Highest Priority) information is set. This tag appears as part of realtime data.</p> <p>2. Output Condition (1) Upon new occurrence or change in Quote 8 to Quote 10 Information* (2) When Backup Information is sent</p> <p>* Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates quote 8 tag.	"Q8" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Ask Quote	4	46	C	Indicates 8th ask quote and bid quote.	Except for the following, same as Quote 1.
4	Bid Quote	50	46	C		<ul style="list-style-type: none"> • 1 or a space is used for the quote flag. • Set 1(General quote) in the quote flag even if Quote before opening, Special Quote or Sequential Trade Quote is set in Q1 tag. • While both ask and bid quote prices are displayed, set the same time in ask and bid. • In the case Q8 information exists just before Trading Halt/Trading Suspension occurs. ("1" is set in the change flag and "space" is set in other items.)

Q9: Quote 9**1. Format (96 bytes)**

Tag ID	Reserved	Ask quote (46)									Bid quote (46)								
		Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)			Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)		
			Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign		Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, Quote 9 (ask and bid quotes with the 9th Highest Priority) information is set. This tag appears as part of realtime data.</p> <p>2. Output Condition (1) Upon new occurrence or change in Quote 9 to Quote 10 Information* (2) When Backup Information is sent</p> <p>* Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates quote 9 tag.	“Q9” is set.
2	Reserved	2	2	C	This item is reserved.	
3	Ask Quote	4	46	C	Indicates 9th ask quote and bid quote.	Except for the following, same as Quote 1.
4	Bid Quote	50	46	C		<ul style="list-style-type: none"> • 1 or a space is used for the quote flag. • Set 1(General quote) in the quote flag even if Quote before opening, Special Quote or Sequential Trade Quote is set in Q1 tag. • While both ask and bid quote prices are displayed, set the same time in ask and bid. • In the case Q9 information exists just before Trading Halt/Trading Suspension occurs. (“1” is set in the change flag and “space” is set in other items.)

QA: Quote 10**1. Format (96 bytes)**

Tag ID	Reserved	Ask Quote (46)									Bid Quote (46)								
		Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)			Change Flag	Price (16)			Time	Quote Flag	Quote Quantity (16)		
			Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign		Unit Flag	Price	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)	(1)	(1)	(14)	(1)	(12)	(1)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, Quote 10 (ask and bid quotes with the 10th Highest Priority) information is set. This tag appears as part of realtime data.</p> <p>2. Output Condition (1) Upon new occurrence or change in Quote 10 Information* (2) When Backup Information is sent</p> <p>* Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates quote 10 tag.	“QA” is set.
2	Reserved	2	2	C	This item is reserved.	
3	Ask Quote	4	46	C	Indicates 10th ask quote and bid quote.	Except for the following, same as Quote 1.
4	Bid Quote	50	46	C		<ul style="list-style-type: none"> • 1 or a space is used for the quote flag. • Set 1(General quote) in the quote flag even if Quote before opening, Special Quote or Sequential Trade Quote is set in Q1 tag. • While both ask and bid quote prices are displayed, set the same time in ask and bid. • In the case Q10 information exists just before Trading Halt/Trading Suspension occurs. (“1” is set in the change flag and “space” is set in other items.)

QM: Market order

1. Format (62 bytes)

Tag ID	Reserved	Sell Order (29)					Buy Order (29)				
		Change Flag	Time	Quote Quantity (16)			Change Flag	Time	Quote Quantity (16)		
				Trading Volume/ Turnover Unit Flag	Quantity	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(12)	(1)	(14)	(1)	(1)	(12)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content</p> <p>In this tag, both Ask and Bid Market Order Information is set.</p> <p>This tag appears as part of realtime data.</p> <p>2. Output Condition</p> <p>(1) Upon new occurrence or change in Market Order Information*.</p> <p>< Condition ></p> <ol style="list-style-type: none"> 1) Between the beginning of accepting orders and determination of opening price 2) Between trading halt (accepting order input) and next execution. 3) Between trading suspension and next execution. 4) Between removal of Special Quote and release of suspension associated with removal of Special Quote 5) While special quote is displayed. (Including the case that special quote is displayed due to that market order) 6) While Sequential Trade Quote is displayed. (including the case Sequential Trade Quote is displayed due to the market order) 7) During Sequential Trade in ZARABA. 8) When closing auction is executed at limit price, if market order remains. 	

Content and Output Condition	Remarks
(2) When market orders disappear. (3) When Backup Information is sent. * Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition	
1	Tag ID	0	2	C	Indicates the market order tag.	“QM” is set.	
2	Reserved	2	2	C	This item is reserved.		
3	Sell Order	4	29		Indicates the sell order.		
	Change Flag		(4)	(1)	C	Indicates whether the quote has changed or not. 1: Changed. Space: Not Changed. ▪ “1” is set when quantity or time of Market Order is changed. ▪ In case of Backup, space is set. ▪ When Market Order information exists just before Trading Halt/Trading Suspension occurs, "1" is set in the change flag, "space" is set in other items.	
	Time		(5)	(12)	C	Indicates the time when quotes of Market Order occur. ▪ It is specified as "HHMMSStttttt". ▪ In case that both buy and sell order exists on the book, the same time is set for both sell and buy. ▪ When there is no Market Order or that is all cancelled, space is set.	
	Quantity	Trading Volume/ Turnover Unit Flag	(17)	(1)	C	Indicates the trading volume/ turnover unit flag.	
		Quantity	(18)	(14)	C	Indicates the quantity of Market Order.	▪ When there is no Market Order or all market order is cancelled, space is set.
		Sign	(32)	(1)	C	Indicates sign of quantity.	“+” or space is set.
4	Buy Order		33	29		Indicates the buy order.	
	Change		(33)	(1)	C	Same as sell order	
	Time		(34)	(12)	C	Replace "sell order" with "buy order"	
	Quantity	Trading Volume/ Turnover Unit Flag	(46)	(1)	C		
		Quantity	(47)	(14)	C		
		Sign	(61)	(1)	C		

QO: OVER/UNDER**1. Format (62 bytes)**

Tag ID	Reserved	OVER Quote (29)					UNDER Quote (29)				
		Change Flag	Time	Quote Quantity (16)			Change Flag	Time	Quote Quantity (16)		
				Trading Volume/ Turnover Unit Flag	Quantity	Sign			Trading Volume/ Turnover Unit Flag	Quantity	Sign
(2)	(2)	(1)	(12)	(1)	(14)	(1)	(1)	(12)	(1)	(14)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content</p> <p>In this tag, OVER/UNDER quote (Total of quote 11 (Ask) and above or quote 11 (Bid) and below) information is set. This tag is appeared as one of realtime data. OVER Quote means the cumulative quantities of ask quotes above the 10th quote UNDER Quote means the cumulative quantities of bid quotes below the 10th quote</p> <p>2. Output Condition</p> <p>(1) Upon new occurrence or change in above /below Quote 10*. (2) When Backup Information is sent.</p> <p>* Existing Quotes for afternoon session are sent at the beginning of afternoon order acceptance.</p>	

3. Detailed Format

Item No.	Name		Location	Byte Count	Format	Description	Setting Condition
1	Tag ID		0	2	C	Indicates the OVER/UNDER Quote tag.	“QO” is set.
2	Reserved		2	2	C	This item is reserved.	
3	OVER Quote		4	29			
	Quantity	Change Flag	(4)	(1)	C	Indicates whether the quote has changed or not.	1: Changed. Space: Not Changed. ▪ “1” is set when quantity or time of any quotes above quote 10 is changed. ▪ In case of Backup, space is set. ▪ When OVER/UNDER Quote information exists just before Trading Halt/Trading Suspension occurs, "1" is set in the change flag, "space" is set in other items.
		Time	(5)	(12)	C	Indicates the time at which OVER Quote is input.	▪ It is specified as "HHMMSSttttt". ▪ In case that both buy and sell order exists on the book, the same time is set for both sell and buy. ▪ When there is no OVER/UNDER Quote or all OVER/UNDER quotes is cancelled, space is set.
		Trading Volume/ Turnover Unit Flag	(17)	(1)	C	Indicates the trading volume/ turnover unit flag.	
		Quantity	(18)	(14)	C	Indicates the cumulative quantity of ask quotes above the 10th quote.	▪ When there is no quote or that is all cancelled, space is set.
		Sign	(32)	(1)	C	Indicates sign of quantity.	“+” or space is set.
4	UNDER Quote		33	29		Indicates the bids.	
	Quantity	Change	(33)	(1)	C	Same as OVER Quote Read “OVER Quote” as “UNDER Quote”.	
		Time	(34)	(12)	C		
		Trading Volume/ Turnover Unit Flag	(46)	(1)	C		
		Quantity	(47)	(14)	C		
		Sign	(61)	(1)	C		

VL: Trading Volume

1. Format (27 bytes)

Tag ID	Reserved	Trading Volume (23)				
		Reserved	Trading Volume/ Turnover Unit Flag	Trading Volume	Time	Reserved
(2)	(2)	(1)	(1)	(14)	(6)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content</p> <p>In this tag, by-issue trading volume information is set.</p> <p>This tag appears as part of realtime data.</p> <p>2. Output Condition</p> <p>(1) Upon new occurrence of trade price information including Same Price Execution.</p> <p>(2) When Backup Information is sent.</p> <p>(3) When All-Day Information is sent.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates the trading volume tag.	"VL" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Trading Volume	4	23		Indicates the trading volume.	
	Reserved	(4)	(1)	C	This item is reserved.	
	Trading Volume/ Turnover Unit Flag	(5)	(1)	C	Indicates the trading volume/ Turnover unit flag.	
	Trading Volume	(6)	(14)	C	This item shows the cumulative Trading Volume for the morning and afternoon sessions.	When there is no Trading Volume, space is set.
	Time	(20)	(6)	C	Indicates the time at which the Trading Volume changed.	It is specified as "HHMMSS" When there is no Trading Volume, space is set.
	Reserved	(26)	(1)	C	This item is reserved.	

VA: Turnover**1. Format (27 bytes)**

Tag ID	Reserved	Turnover (23)				
		Reserved	Trading Volume/ Turnover Unit Flag	Turnover	Time	Reserve
(2)	(2)	(1)	(1)	(14)	(6)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content</p> <p>In this tag, by-issue Turnover Information is set.</p> <p>This tag appears as part of realtime data.</p> <p>2. Output Condition</p> <p>(1) Upon new occurrence of Trade Price Information including Same Price Execution.</p> <p>(2) When Backup Information is sent.</p> <p>(3) When All-Day Information is sent.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates the turnover tag.	“VA” is set.
2	Reserved	2	2	C	This item is reserved.	
3	Turnover in yen value	4	23		Indicates the turnover.	
	Reserved	(4)	(1)	C	This item is reserved.	
	Trading Volume/ Turnover Unit Flag	(5)	(1)	C	Indicates the trading volume/ Turnover unit flag.	
	Turnover Value	(6)	(14)	C	This item shows the cumulative turnover for the morning and afternoon sessions.	When there is no Turnover, space is set.
	Time	(20)	(6)	C	Indicates the time at which the turnover changed.	It is specified as “HHMMSS” When there is no Turnover, space is set.
	Reserved	(26)	(1)	C	This item is reserved.	

VW: VWAP**1. Format (52 bytes)**

Tag ID	Reserved	All-Day VWAP(24)						Current-Session VWAP (24)					
		Reserved	Unit Flag	All-Day VWAP	Sign	Time	Reserved	Reserved	Unit Flag	All-Day VWAP	Sign	Time	Reserved
(2)	(2)	(1)	(1)	(14)	(1)	(6)	(1)	(1)	(1)	(14)	(1)	(6)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, by-issue Volume Weighted Stock Price average (VWAP) Information is set. This tag appears as part of realtime data.</p> <p>2. Output Condition (1) Upon new occurrence of Trade Price Information including Same Price Execution. (2) When Backup Information is sent. (3) When All-Day Information is sent.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates the VWAP tag.	"VW" is set.
2	Reserved	2	2	C	This item is reserved.	
3	All-Day VWAP	4	24		Indicates the All-Day VWAP.	
	Reserved	(4)	(1)	C	This item is reserved.	
	Lot size unit flag	(5)	(1)	C	Indicates the lot size unit flag.	
	All-Day VWAP	(6)	(14)	C	Indicates the All-Day VWAP.	When there is no Turnover, space is set.
	Sign	(20)	(1)	C	Indicates sign of the All-Day VWAP.	"+" or space is set.
	Time	(21)	(6)	C	Indicates the time at which the All-Day VWAP was calculated.	It is specified as "HHMMSS" When there is no Turnover, space is set.
	Reserved	(27)	(1)	C	This item is reserved.	
4	Current-Session VWAP	28	24		Indicates the Current-Session VWAP.	
	Reserved	(28)	(1)	C	This item is reserved.	
	Lot size unit flag	(29)	(1)	C	Indicates the lot size unit flag.	
	All-Day VWAP	(30)	(14)	C	Indicates the Current-Session VWAP.	When there is no Turnover, space is set.
	Sign	(44)	(1)	C	Indicates sign of the Current-Session VWAP.	"+" or space is set.
	Time	(45)	(6)	C	Indicates the time at which the Current-Session VWAP was calculated.	It is specified as "HHMMSS" When there is no Turnover, space is set.
	Reserved	(51)	(1)	C	This item is reserved.	

PA: Parity**1. Format (27 bytes)**

Tag ID	Reserved	Parity(23)				
		Unit Flag	Parity/Estimated Price	Sign	Time	Reserved
(2)	(2)	(1)	(14)	(1)	(6)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content</p> <p>In this tag, estimated Price Information for parity of CB is set.</p> <p>This tag appears as part of realtime data.</p> <p>2. Output Condition</p> <p>(1) When a trade in the underlying stock occurs, excluding Same Price Execution.</p> <p>(2) When Special Quote or Sequential Trade Quote on the underlying stock is displayed/renewed/changed/ removed</p> <p>(3) When Trading Halt, Trading Suspension, release of Trading Halt, release of Trading Suspension or Itayose on the underlying stocks or the relevant issues occurs.</p> <p>(4) When Backup Information is sent.</p> <p>(5) When All-Day Information is sent.</p>	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates Parity/Estimated Price tag.	"PA" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Parity/Estimated Price	4	23			<ul style="list-style-type: none"> In the event of a Trading Halt, Trading Suspension or Itayose on the underlying stocks or the relevant issues occurs, space is set. In the event of a release of Trading Halt or Suspension, the Parity and time based on the price immediately before Restriction is set (but if there is no last trade, space is set).
	Unit Flag	(4)	(1)	C	Indicates the lot size unit flag.	
	Parity/Estimated Price	(5)	(14)	C	Indicates Parity.	<ul style="list-style-type: none"> If there is no trade, Special Quote price or Sequential Trade Quote price for the underlying stock, spaces are set If current price (traded price) does not exist when Special Quote is removed, spaces are set. In the case of All-Day Information, the latest information is set. But in the event that session is closed with Trading Halt or Suspension on the underlying stocks or the relevant issues, the parity immediately before Trading Halt or Suspension is set (space is not set). In the case of All-Day Information after Itayose for the underlying stock or the relevant issue, the latest information distributed 'before' Itayose (not 'at Itayose, which is spaces) is set. If after Itayose, Execution occurs, or a Special Quote or Sequential Trade Quote is shown, updated, changed or removed, for the underlying stock, the Parity based on the new information is set.
	Sign	(19)	(1)	C	Indicates sign of the Parity/Estimated Price.	"+" or space is set.
	Time	(20)	(6)	C	Indicates the time at which the current price, Special Quote price or Sequential Trade Quote price of the underlying stock, which is subject to computation of Parity, occurred or changed.	<ul style="list-style-type: none"> It is specified as "HHMMSS" If there is no trade, Special Quote price or Sequential Trade Quote price for the underlying stock, spaces are set. If current price (traded price) does not exist when Special Quote is removed, spaces are set. In the case of All-Day Information, spaces are set.
	Reserved	(26)	(1)	C	This item is reserved.	

YI: Yield**1. Format (29 bytes)**

Tag ID	Reserved	Direct Yield (9)		Final Yield (9)		Time	Reserved
		Direct Yield	Sign	Final Yield	Sign		
(2)	(2)	(8)	(1)	(8)	(1)	(6)	(1)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content In this tag, Direct and Final Yield Information for CB is set. This tag appears as part of realtime data.</p> <p>2. Output Condition</p> <ul style="list-style-type: none"> (1) When a trade in the underlying stock occurs. (2) When Special Quote or Sequential Trade Quote on the relevant issue is displayed/renewed/changed/removed (3) When Trading Halt, Trading Suspension, release of Trading Halt, release of Trading Suspension or Itayose on the relevant issue occurs (4) When Backup Information is sent. (5) When All-Day Information is sent. 	

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates the Yield tag.	"YI" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Direct Yield	4	9	C		Spaces are set if the issue is in a Trading Halt, Trading Suspension or Itayose.
	Direct Yield	(4)	(8)	C	Indicates the Direct Yield. The unit is 1/100%.	<ul style="list-style-type: none"> • In the event of a release of Trading Halt or Suspension, the Direct Yield based on the price immediately before Restriction is set. • If there is no trade price, Special Quote price or Sequential Trade Quote price for the relevant issue or if such price has been cancelled, spaces are set. • If there is no trade when Special Quote is removed, spaces are set. • Spaces are set for variable rate CBs. • If the Direct Yield is 0, space is set in Direct Yield. • If there is a Special Quote before Trading Halt or Sequential Trade Quote before trading, Direct Yield of All-Day Information is calculated by the quote price.
	Sign	(12)	(1)	C	Indicates sign of Direct Yield Price.	"+" or space is set.
4	Final Yield	13	9	C		Spaces are set if this issue falls into a Trading Halt, Trading Suspension or Itayose.
	Final Yield	(13)	(8)	C	Indicates the final yield. The unit is 1/1000%.	<ul style="list-style-type: none"> • In the event of a release of Trading Halt or Suspension, the Final Yield based on the price immediately before Restriction is set. • If there is no trade price, Special Quote price or Sequential Trade Quote price for the relevant issue or if such price has been cancelled, spaces are set. • If there is no trade when Special Quote is removed, spaces are set. • Spaces are set for variable rate CBs. • If the Final Yield is 0 or less than 0, space is set in Final Yield. • If there is Special Quote before Trading Halt or Sequential Trade Quote before trading, Final Yield of All-Day Information is calculated by the quote price.
	Sign	(21)	(1)	C	Indicates sign of Final Yield Price.	"+" or space is set.

5	Time	22	6	C	Indicates the time at which the trade price, Special Quote price or Sequential Trade Quote price of a CB, which is subject to computation of Direct and Final yield, occurred or changed.	<ul style="list-style-type: none"> • It is specified as “HHMMSS”. • Spaces are set if this issue falls into a Trading Halt, Trading Suspension or Itayose. • If there is no trade, Special Quote price or Sequential Trade Quote price for the relevant issue, spaces are set. • If current price (traded price) does not exist when Special Quote is removed, spaces are set. • If there are no trade prices for the relevant issue, spaces are set.
6	Reserved	28	1	C	This item is reserved.	

LC: Control

1. Format (12 bytes)

Tag ID	Reserved	Test Mode Flag	Start/End Flag	time
(2)	(2)	(1)	(1)	(6)

2. Content and Output Condition

Content and Output Condition	Remarks
<p>1. Content</p> <p>In this tag, the Test Mode Flag and the Start/End Flag that are used in a Control Message are set. This tag appears as part of a Control Message (Communication Control, All-Day Information Control, Backup Information Control and Health Check Control).</p> <p>2. Output Condition</p> <p>(1) Communication Control:</p> <p>a. In the case of start of communication, this message is output at the specified time before opening of morning session.</p> <p>b. In the case of end of communication, this message is output at the specified time after closing of afternoon session.</p> <p>* For multicast group for multicast group number information, control message for end of transmission is output after outputting end of transmission for other exchanges' multicast group.</p>	<p>Detail about sending time, refer to "2.1.1 Output time zone(Issue realtime information / Issue basic information / ToSTNeT information)" of System Operation.</p>

Content and Output Condition	Remarks
<p>(2) All-Day Information Control:</p> <ul style="list-style-type: none"> a. In the case of start, before All-Day Information transmission. b. In the case of end, after All-Day Information transmission. <p>(3) Backup Information Control:</p> <ul style="list-style-type: none"> a. In the case of start, before Backup Information transmission. b. In the case of end, after Backup Information transmission. <p>(4) Health Check control:</p> <p>Sent in 1-minute intervals during the period in which the abovementioned control message (Communication Control) is sent (from start to end of communications).</p> <p>Even during periods when there is no information being sent through the circuit, this message will be sent to allow users to identify circuit malfunction.</p>	<p>In cases where high traffic data over the throttle rate of a certain multicast group is generated, there is a possibility that Health Check Control Message will not be transmitted in 60-second intervals.</p> <p>If user wants to monitor for circuit malfunction, TSE recommends using not only Health Check Control Messages but also other real-time issue messages.</p>

3. Detailed Format

Item No.	Name	Location	Byte Count	Format	Description	Setting Condition
1	Tag ID	0	2	C	Indicates the control tag.	"LC" is set.
2	Reserved	2	2	C	This item is reserved.	
3	Test Mode Flag	4	1	C	Indicates the flag for identifying the distinction between Production and Test Operation.	1: Production Operation 2: Test Operation
4	Start/End Flag	5	1	C	Indicates the flag for identifying the distinction between Start and End.	(1) In the case of Control Message (Communication control, All-Day Information Control and Backup Information Control): 1: Start 2: End (2) In the case of Control Message (Health Check Control): space
5	Time	6	6	C	Indicates the time.	It is specified as "HHMMSS". In the case of Control Message (Health Check Control): Time at which this message is sent Other than the above: space

3. APPENDIX

3.1. Setting Instance of OVER/UNDER Quote

Total of quotes above quote 10 are output as OVER Quote. Total of quotes below quote 10 are output as UNDER Quote.

Asks		Price	Bids	
OVER Quote ("31" is set.)	7	116		
	5	115		
	15	114		
	4	113		
Quote 10	9	112		
Quote 9	33	111		
Quote 8	11	110		
Quote 7	76	109		
Quote 6	4	108		
Quote 5	3	107		
		106		
Quote 4	10	105		
Quote 3	53	104		
Quote 2	26	103		
Quote 1 (Highest Priority)	21	102		
		101	40	Quote 1 (Highest Priority)
		100	46	Quote 2
		99	10	Quote 3
		98		
		97		
		96	2	Quote 4
		95		
		94	3	Quote 5
		93	5	Quote 6
		92	12	Quote 7
		91	6	Quote 8
		90	28	Quote 9
		89	6	Quote 10
		88	1	UNDER Quote ("19" is set.)
		87	5	
		86	6	
		85	7	

3.2. Combination of Ask/Bid Section of Quote Message

○: Set a value

-: Set a space

3.2.1. Quote1

Item No.	Ask Quote				Bid Quote				Remarks
	Price	Time	Quote Flag	Quantity	Price	Time	Quote Flag	Quantity	
1	○	○	General Quote	○	○	○	General Quote	○	
2	○	○	General Quote	○	-	-	-	-	
3	-	-	-	-	○	○	General Quote	○	
4	○	○	Quote Before Opening	○	○	○	Quote Before Opening	○	
5	○	○	Quote Before Opening	○	-	-	-	-	
6	-	-	-	-	○	○	Quote Before Opening	○	
7	○	○	Sequential Trade Quote	○	○	○	General Quote	○	
8	○	○	Sequential Trade Quote	○	○	○	General Quote	-	
9	○	○	General Quote	○	○	○	Sequential Trade Quote	○	
10	○	○	General Quote	-	○	○	Sequential Trade Quote	○	
11	○	○	Sequential Trade Quote	-	-	-	-	-	
12	-	-	-	-	○	○	Sequential Trade Quote	-	
13	○	○	Special Quote	○	○	○	General Quote	○	
14	○	○	Special Quote	○	○	○	General Quote	—	
15	○	○	General Quote	○	○	○	Special Quote	○	
16	○	○	General Quote	-	○	○	Special Quote	○	
17	○	○	Special Quote	-	-	-	-	-	
18	-	-	-	-	○	○	Special Quote	-	
19	○	-	Special Quote Before Trading Halt	-	-	-	-	-	
20	-	-	-	-	○	-	Special Quote Before Trading Halt	-	
21	○	-	Sequential Trade Quote Before Trading Halt	-	-	-	-	-	
22	-	-	-	-	○	-	Sequential Trade Quote Before Trading Halt	-	
23	-	-	-	-	-	-	-	-	
24	○	○	Special Quote	-	○	○	General Quote	○	
25	○	○	Special Quote	-	○	○	General Quote	-	

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26	○	○	General Quote	○	○	○	Special Quote	-	
27	○	○	General Quote	-	○	○	Special Quote	-	
28	○	○	Sequential Trade Quote	-	○	○	General Quote	○	
29	○	○	Sequential Trade Quote	-	○	○	General Quote	-	
30	○	○	General Quote	○	○	○	Sequential Trade Quote	-	
31	○	○	General Quote	-	○	○	Sequential Trade Quote	-	
32	○	○	General Quote (Buying-Up/Selling-Down)	○	○	○	General Quote	○	
33	○	○	General Quote	○	○	○	General Quote (Buying-Up/Selling-Down)		
34	○	○	General Quote (Buying-Up/Selling-Down)	○	-	-	-	-	
35	-	-	-	-	○	○	General Quote (Buying-Up/Selling-Down)	○	

3.2.2. Quote 2 to Quote 10

○: Set a value

-: Set a space

Item No.	Ask Quote				Bid Quote				Remarks
	Price	Time	Quote Flag	Quantity	Price	Time	Quote Flag	Quantity	
1	○	○	General Quote	○	○	○	General Quote	○	Output even if Quote 1 is a quote before opening, Special Quote or Sequential Trade Quote.
2	○	○	General Quote	○	-	-	-	-	
3	-	-	-	-	○	○	General Quote	○	
4	-	-	-	-	-	-	-	-	

3.2.3. OVER/UNDER Quote

○: Set a value

-: Set a space

Item No.	Ask Quote		Bid Quote		Remarks
	Time	Volume	Time	Volume	
1	○	○	○	○	
2	○	○	-	-	

3	-	-	○	○	
4	-	-	-	-	

3.2.4. Market Order

○: Set a value

-: Set a space

Item No.	Ask Quote		Bid Quote		Remarks
	Time	Volume	Time	Volume	
1	○	○	○	○	
2	○	○	-	-	
3	-	-	○	○	
4	-	-	-	-	

3.3. Change Flag of Quote Tags

The setting method of “Change Flag” of quote tags (Quote1-10, Market Order, OVER/UNDER) is as below.

Comparing with the latest information, in the case that any of “Price”, “Quantity” or “Time” information is changed, “1” is set in the change flag.

If there is no change, space is set. Concerning the time, even if the timestamp is the same as that of the latest information, the “actual time” (differences smaller than the timestamp) of data generation is different. “Change Flag” (“1”) of “Time”, therefore, is set in the quote tag.

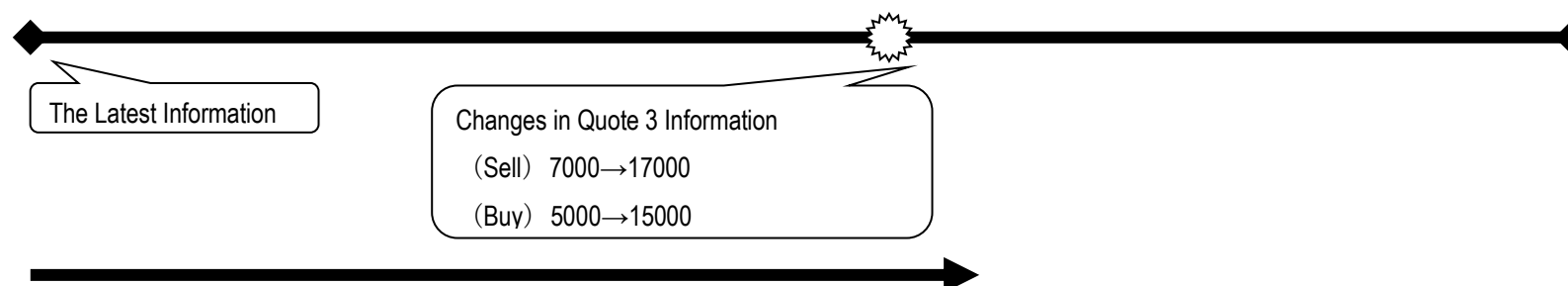
[Example]

(The Latest Information)

	Ask					Bid				
	Change Flag	Price	Time*	Quote Flag	Quantity	Change Flag	Price	Time*	Quote Flag	Quantity
Q1	1	500	103030000001	1	5000	1	495	103030000001	1	3000
Q2	1	501	103030000001	1	6000	1	494	103030000001	1	4000
Q3	1	502	103030000001	1	7000	1	493	103030000001	1	5000

10:30:30.000001

10:30:30.000002



* “Time” is still “103030000001”, but actual time is changed.

◆ Output Information in Case Above

	Ask					Bid				
	Change Flag	Price	Time	Quote Flag	Quantity	Change Flag	Price	Time	Quote Flag	Quantity
Q1	1	500	103030000001	1	5000	1	495	103030000001	1	3000
Q2	1	501	103030000001	1	6000	1	494	103030000001	1	4000
Q3	1	502	103030000001	1	17000	1	493	103030000001	1	15000

Even though there is no change in the Price, Time or Quantity, “1” is set in the Change Flag because of a change in the actual time.

3.4. Example of Buying-Up/Selling-Down

The setting method of Quote 1 (Highest Priority) about Buying-Up or Selling-Down by a single order is indicated as below.

- 1) Buy Limit Order (price: ¥104, Qty: 50)

	Total	Sell Qty	Price	Buy Qty	Total	
Quote 4	10	10	105			
Quote 3	53	53	104	<u>50</u>		
Quote 2	26	26	103			
Quote 1 (Highest Priority)	21	21	102			
			101	40	40	Quote 1 (Highest Priority)
			100	46	46	Quote 2
			99	10	10	Quote 3
			98			

This bid (¥104,50qty) is not sent because selling and buying orders are matched immediately.

2) Trading (price: ¥102, Qty: 21)

	Total	Sell Qty	Price	Buy Qty	Total	
Quote 3	10	10	105			
Quote 2	53	53	104	29		This bid (¥104,29qty) is not sent at execution (¥102,21qty),
Quote 1 (Highest Priority)	26	26	103			
			102			
			101	40	40	Quote 1 (Highest Priority)
			100	46	46	Quote 2
			99	10	10	Quote 3
			98			

"General Quote (Buying-Up or Selling-Down): 2" is set in Ask Quote1 at ¥103 during Buying-Up by the Continuous Execution. During Buying-Up, other new order at ¥103 is not possible to be executed.

Sending Data						
Tag	Ask			Bid		
	Quote	Price	Qty	Quote	Price	Qty
Q1	2	103	26	1	101	40
Q2	1	104	53	1	100	46
Q3	1	105	10	1	99	10

3) Trading (price: ¥103, Qty: 26)

	Total	Sell Qty	Price	Buy Qty	Total	
Quote 2	10	10	105			
Quote 1 (Highest Priority)	53	53	104	<u>3</u>		
			103			
			102			
			101	40	40	Quote 1 (Highest Priority)
			100	46	46	Quote 2
			99	10	10	Quote 3
			98			

"General Quote (Buying-Up or Selling-Down): **2**" is set in Ask Quote1 at ¥104 during Buying-Up by the Sequential Trade. During Buying-Up, other new order at ¥103 is not possible to be executed.

This bid (¥103,3qty) is not sent at execution (¥103,26qty).

Sending Data

Tag	Ask			Bid		
	Quote	Price	Qty	Quote	Price	Qty
Q1	2	104	53	1	101	40
Q2	1	105	10	1	100	46
Q3				1	99	10

4) Trading (price: ¥104, Qty: 3)

	Total	Sell Qty	Price	Buy Qty	Total	
Quote 2	10	10	105			
Quote 1 (Highest Priority)	50	50	104			
			103			
			102			
			101	40	40	Quote 1 (Highest Priority)
			100	46	46	Quote 2
			99	10	10	Quote 3
			98			

After every order is executed,
General Quote is set.

Sending Data						
Tag	Ask			Bid		
	Quote	Price	Qty	Quote	Price	Qty
Q1	1	104	50	1	101	40
Q2	1	105	10	1	100	46
Q3				1	99	10

3.5. Setting method of unit flag

1) The setting of Unit flag for Price

The setting method of unit flag for prices of stocks and CBs is as below.

- For unit flag for prices of stocks, it is set dynamically based on the price.

If valid to the 4th decimal place, "0" is set in unit flag.

If valid to the 3rd decimal place, "1" is set in unit flag.

If valid to the 2nd decimal place, "2" is set in unit flag.

If valid to the 1st decimal place, "3" is set in unit flag.

If only integer values are valid, "4" is set in unit flag.

- For unit flag for prices of CBs, "2" is set in unit flag.

2) The setting of Unit flag for VWAP.

Unit flag of VWAP is fixed to "0".

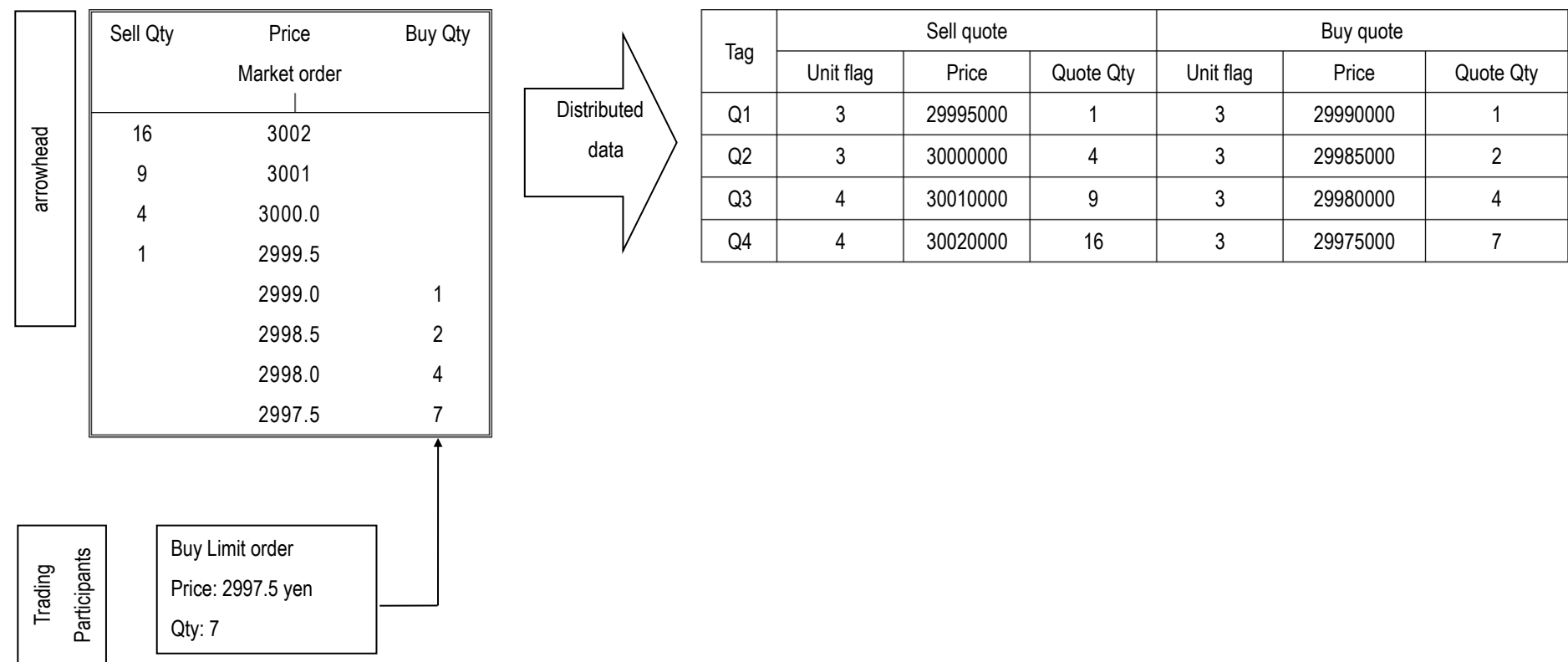
3) The setting of Unit flag for Parity.

Unit flag of Parity is fixed to "2".

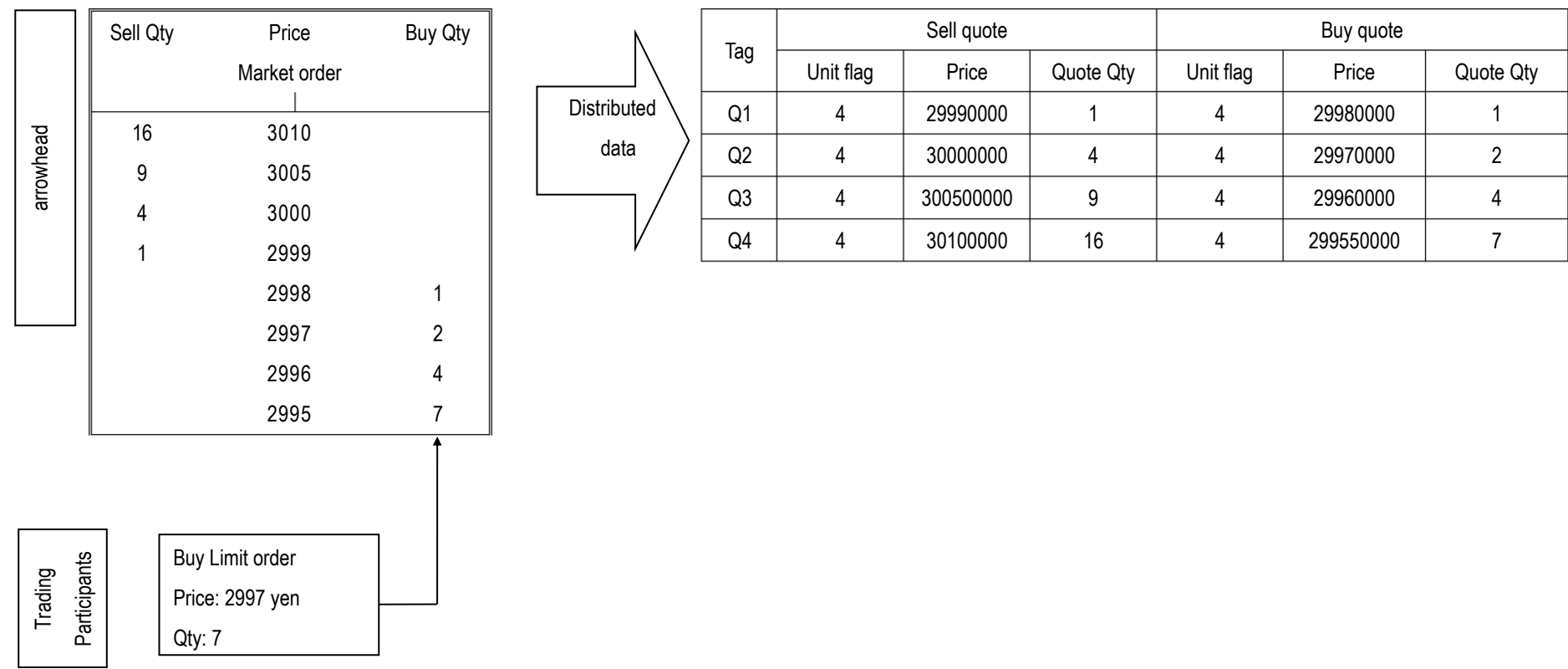
[Example(Unit flag for stocks)]

For tick size table, refer to "6.2.2 Number of Tick Size Table" of Common Items.

- a. When the tick size is below 1 yen (assuming Tick Size is 0.5 yen and stock is under 3000 yen)
(In case that the "Number of Tick Size Table" of BP tag is "03".)



b. When the tick size is not below 1 yen
(In case that the "Number of Tick Size Table" of BP tag is "01")



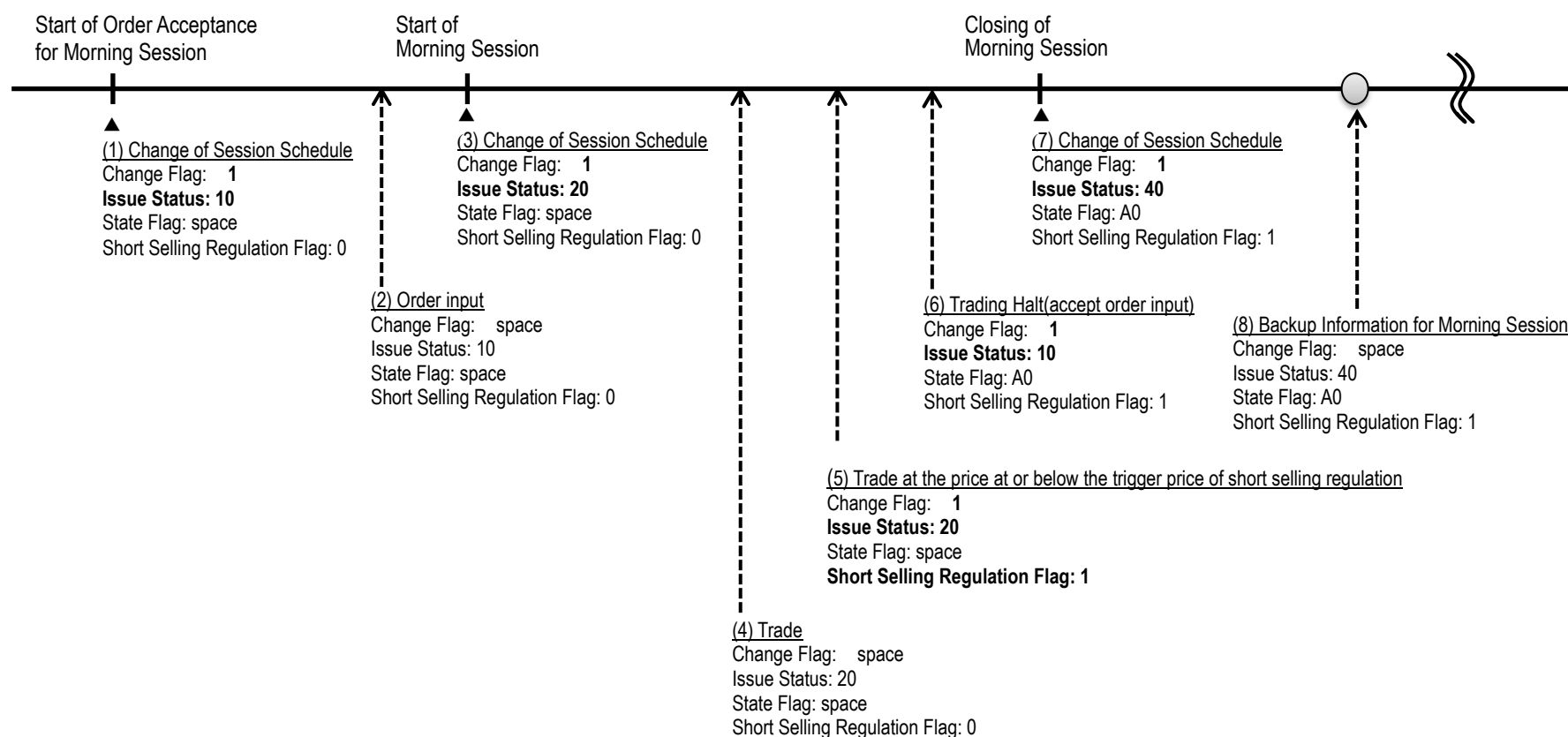
3.6. Sending Status Information

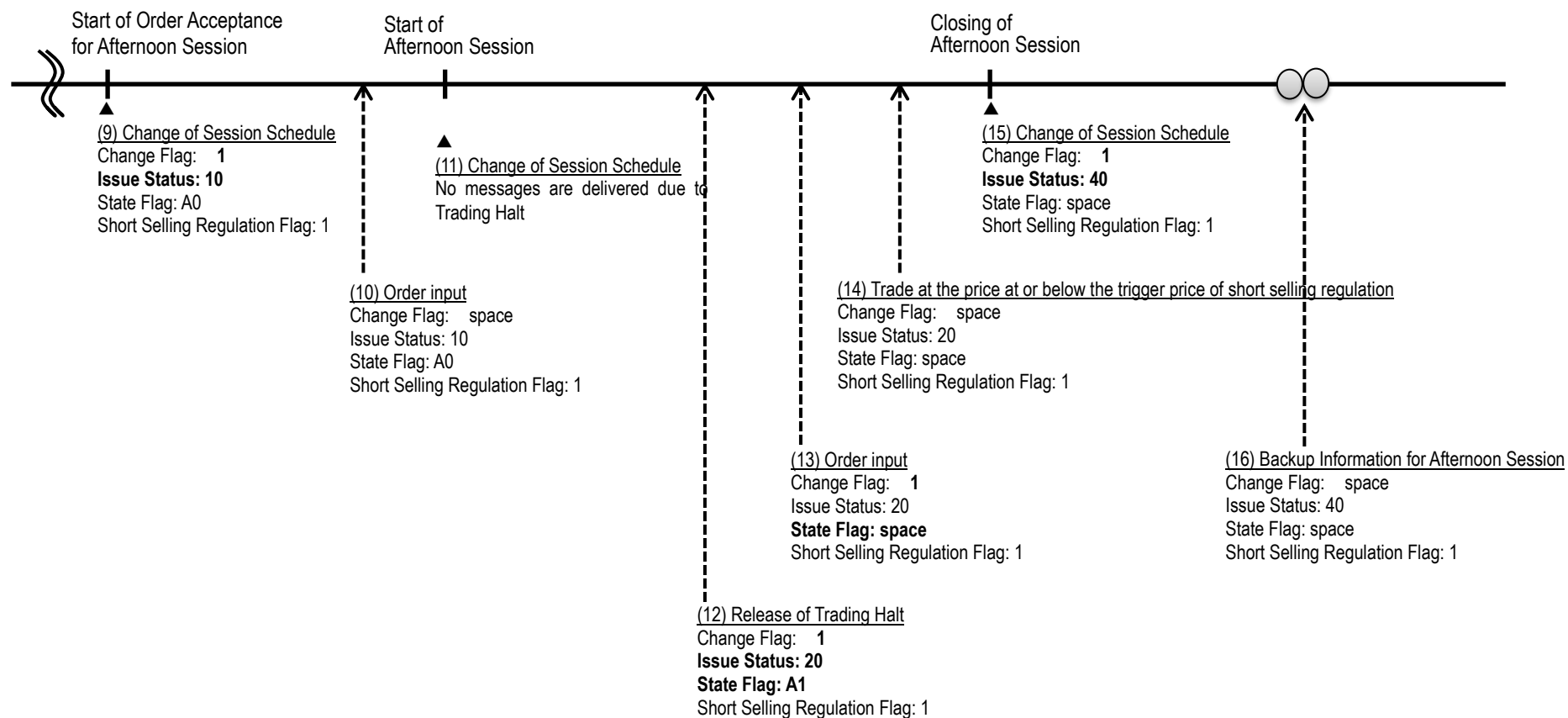
3.6.1. Timing of Status Information

Status Information indicates status about each issue at the time of sending. This information includes session schedule (Start of Order Acceptance, Beginning of Session, Close of Session and so on) and Issue status of Realtime Message (Quotes, Trading Information, Trading Halt, Trading Suspension, Release of Trading Halt and so on).

Changing Status is described as below.

About sending details of Trading Halt/ Release of Trading Halt, refer to 3.5.2 Sending Status Information for Trading Halt/ Release of Trading Halt on this Volume.





3.6.2. Sending Status Information for Trading Halt / Release of Trading Halt

Messages to be delivered in case that trading is restricted (A0: Trading Halt (accepting order input), C0: Trading Suspension, D0: Trading Halt (not accepting order input)) or Release of the restriction is released (A1: Release of Trading Halt, C1: Release of Trading Suspension) are described below.

The examples of the State Flags in [Tag] in Table 3.6.2-1 and Table 3.6.2-2 are for Trading Halt (accepting order input). For other states, please replace the State Flag accordingly.

(1) When restriction is executed

After sending restriction execution and quote clear information, quote information after imposing the restriction is output. The messages to be delivered in restriction execution are divided into three patterns according to the latest Book Condition. Details of messages are described in Table 3.6.2-1.

Table 3.6.2-1 Messages to be delivered in Case that Trading is Restricted (Example using “A0”(Trading Halt))

No.	The latest Book Condition Before the Restriction	Trading Halt	Messages to be Sent in Case that Trading is Restricted
1	Zaraba	>>	[Content of Message] A) is output, then B) is output. A) Restriction and Quote Clear Information (*1) is output. B) Quote after the Restriction is output. [Tag] A) ST: Change Flag “1”, Issue Status “10”, State Flag “A0” Q1-QA, QO, QM (Quote that Existed just before Restriction): Change Flag “1”, Other Items space. *2 PA *3, YI: All Items Space B) ST: Change Flag “Space”, Issue Status “10”, State Flag “A0” Q1-QA, QM, QO: Quote that Exists after Restriction is output. Quote Flag Settings: Q1 (0: Quote Before Opening), Q2-QA (1: General Quote)
	During Restriction		
	Trading Suspension, Trading Halt		
	Itayose(B0)		
	Issue whose Opening Price of the Day isn't Determined.		

No.	The latest Book Condition Before the Restriction	Trading Halt	Messages to be Sent in Case that Trading is Restricted
2	Special Quote	>>	<p>[Content of Message] A) is output, then B) is output. A) Restriction, Special Quote before Trading Halt and Quote Clear Information (*1) is output. B) Quote after the Restriction is output.</p> <p>[Tag] A) ST: Change Flag "1", Issue Status "10", State Flag "A0" Q1: Special Quote before Trading Halt On the other side of Special Quote before Trading Halt (Q1), Q2-QA, QO, QM (Quote that existed just before Restriction): Change Flag "1", other items space *2 PA *3, YI: all items space B) ST: Change Flag "Space", Issue Status "10", State Flag "A0" Q1-QA, QM, QO: Quote that exists after Restriction is output. Quote Flag Settings: Q1 (0: Quote Before Opening), Q2-QA (1: General Quote)</p>
3	Sequential Trade Quote	>>	<p>[Content of Message] A) is output, then B) is output. A) Restriction, Sequential Trade Quote before Trading Halt and Quote Clear Information (*1) is output. B) Quote after the Restriction is output.</p> <p>[Tag] A) ST: Change Flag "1", Issue Status "10", State Flag "A0" Q1: Sequential Trade Quote before Trading Halt On the other side of the Sequential Trade Quote before Trading Halt (Q1), Q2-QA, QO, QM (Quote that existed just before Restriction): Change Flag "1", other items space *2 PA *3, YI: all items space B) ST: Change Flag "Space", Issue Status "10", State Flag "A0" Q1-QA, QM, QO: Quote that exists after Restriction is output. Quote Flag Settings: Q1 (0: Quote Before Opening), Q2-QA (1: General Quote)</p>

*1 Because of clearing the sequence of quote information at Trading Halt, space is set for existing quotes.

*2 Only the quote that exists before the Restriction is output.

*3 When trading is restricted in Underlying Stock or CB, the Parity Information (PA tag) of the CB issue is output.

When trading is restricted in Underlying Stock, output Parity Information of relevant CB. When trading is restricted in CB, output Parity Information of CB.

(2) When restriction is released

When quote is changed because of Restriction Release, the information below is output after Restriction Release.

The messages to be output in Restriction Release are divided into three patterns. Details of messages are described in Table 3.6.2-2.

Table 3.6.2-2 Messages to be delivered in Case that Trading is Restricted

Book Condition	Release of Restriction *1	Just after Release of Restriction	
		Sending Release Information of Restriction	Book Condition
Trading Suspension or Trading Halt	>>	[Content of Message] A) is output, then B) is output. A) Release Information of Restriction is output. B) Quotes that are changed by the execution after the Release of Restriction are output. [Tag] A) ST: Change Flag "1", Issue Status "20", State Flag "A1" (Release Information of Restriction) PA *2, YI: Parity and time based on the price just before Restriction is set (but when there are no trade, space is set). B) ST: Change Flag "1", Issue Status "20", State Flag space 4P, VL, VA, VW, PA, YI: Execution Information Quote Information after Trading Execution is output Quote Flag Settings: Q1-QA (1: General Quote)	Zaraba
		[Content of Message] A) is output A) Release Information of Restriction is output. [Tag] A) ST: Change Flag "1", Issue Status "20", State Flag "A1" (Release Information of Restriction) PA *2, YI: It is based on the price just before Restriction is set (but when there are no trade, space is set). (Stock/CB) Quote isn't sent because information is not changed.	Quote Before Opening

Book Condition	Release of Restriction *1		Just after Release of Restriction	
			Sending Release Information of Restriction	Book Condition
Trading Suspension or Trading Halt	>>	Special Quote	<p>[Content of Message] A) is sent, then B) is output. A) Release Information of Restriction is output. B) Quote that is changed by displaying Special Quote after Release Information of Restriction is output.</p> <p>[Tag] A) ST: Change Flag "1", Issue Status "20", State Flag "A1" (Release Information of Restriction) PA *2, YI: Parity and time based on the price just before Restriction is set (but when there are no trade, space is set). B) ST: Change Flag "1", Issue Status "20", State Flag space Q1-QA, QM, QO: Quote concerning Special Quote is output. Quote Flag Settings: Q1 (3:Special Quote), Q1 (The other side of Special Quote), Q2-QA (1:General Quote) PA *2、 YI: It is based on the Special Quote.</p>	Special Quote

*1 After the restriction release, the condition changes into Execution, Not matched or Special quote.

*2 When restriction release occurs in the underlying stocks or the relevant issues, the parity information (PA tag) of the CB issues is output.
When restriction continues in the underlying stocks or the relevant issues, parity is space.