

(Appendix)IP Address/Port Number/The value for throttling

UDP Multicast (Production Line)

Please note that IP address and port number for FLEX Standard and FLEX Standard (WB) are different.

【FLEX Standard(WB) /High-speed Index】

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	
001	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.1	51501	53501	239.194.24.1	52501	54501	86,800
002	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.2	51502	53502	239.194.24.2	52502	54502	86,800
003	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.3	51503	53503	239.194.24.3	52503	54503	86,800
004	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.4	51504	53504	239.194.24.4	52504	54504	86,800
005	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.5	51505	53505	239.194.24.5	52505	54505	86,800
006	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.6	51506	53506	239.194.24.6	52506	54506	86,800
007	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.7	51507	53507	239.194.24.7	52507	54507	86,800
008	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.8	51508	53508	239.194.24.8	52508	54508	86,800
009	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.9	51509	53509	239.194.24.9	52509	54509	86,800
010	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.10	51510	53510	239.194.24.10	52510	54510	86,800
011	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.11	51511	53511	239.194.24.11	52511	54511	86,800
012	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.12	51512	53512	239.194.24.12	52512	54512	86,800
013	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.13	51513	53513	239.194.24.13	52513	54513	86,800
014	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.14	51514	53514	239.194.24.14	52514	54514	86,800
015	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.15	51515	53515	239.194.24.15	52515	54515	86,800
016	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.16	51516	53516	239.194.24.16	52516	54516	86,800
017	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.17	51517	53517	239.194.24.17	52517	54517	86,800
018	FLEX Standard(WB)	TSE realtime (Stock・CB)	239.194.23.18	51518	53518	239.194.24.18	52518	54518	86,800
019	Reserved								
020	Reserved								
021	FLEX Standard(WB)	TSE base price(Stock・CB) <sup>*2</sup>	239.194.23.21	51521	53521	239.194.24.21	52521	54521	4,875
022	FLEX Standard(WB)	NSE realtime(Stock・CB)	239.194.23.22	51522	53522	239.194.24.22	52522	54522	20,000
023	FLEX Standard(WB)	NSE base price(Stock・CB)	239.194.23.23	51523	53523	239.194.24.23	52523	54523	4,875
024	FLEX Standard(WB)	FSE realtime(Stock)	239.194.23.24	51524	53524	239.194.24.24	52524	54524	20,000
025	FLEX Standard(WB)	FSE base price(Stock)	239.194.23.25	51525	53525	239.194.24.25	52525	54525	4,875
026	FLEX Standard(WB)	SSE realtime(Stock)	239.194.23.26	51526	53526	239.194.24.26	52526	54526	20,000
027	FLEX Standard(WB)	SSE base price(Stock)	239.194.23.27	51527	53527	239.194.24.27	52527	54527	4,875
028	Reserved								
029	Reserved								
030	Reserved								
031	Reserved								
032	FLEX Standard(WB)	TSE issue information(Stock・CB)	239.194.23.32	51532	53532	239.194.24.32	52532	54532	*
033	FLEX Standard(WB)	NSE issue information(Stock・CB)	239.194.23.33	51533	53533	239.194.24.33	52533	54533	*
034	FLEX Standard(WB)	FSE issue information(Stock)	239.194.23.34	51534	53534	239.194.24.34	52534	54534	*
035	FLEX Standard(WB)	SSE issue information(Stock)	239.194.23.35	51535	53535	239.194.24.35	52535	54535	*
036	Reserved								
037	Reserved								
038	Reserved								
039	Reserved								
040	FLEX Standard(WB)	Multicast group number	239.194.23.40	51540	53540	239.194.24.40	52540	54540	3,750
041	FLEX Standard(WB)	TSE realtime (ToSTNeT)	239.194.23.41	51541	53541	239.194.24.41	52541	54541	*
042	FLEX Standard(WB)	TSE (Index・Statistics)	239.194.23.42	51542	53542	239.194.24.42	52542	54542	*
043	Reserved								

(Appendix)IP Address/Port Number/The value for throttling

Multicast Group	Service	Information classification	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	The value for throttling (byte/25ms)
044	Reserved								
045	Reserved								
046	FLEX High-speed Index <sup>*1</sup>	TSE High-speed Index (TOPIX)	239.194.23.46	51546	53546	239.194.24.46	52546	54546	-
047	FLEX High-speed Index <sup>*1</sup>	TSE High-speed Index (TOPIX Core 30)	239.194.23.47	51547	53547	239.194.24.47	52547	54547	-
048	FLEX High-speed Index <sup>*1</sup>	TSE High-speed Index (TOPIX 500)	239.194.23.48	51548	53548	239.194.24.48	52548	54548	-
049	Reserved								
050	Reserved								
101	FLEX Standard(WB)	TSE realtime (Dummy Symbols )	239.194.23.101	51601	53601	239.194.24.101	52601	54601	15,000
102	FLEX Standard(WB)	TSE base price (Dummy Symbols )	239.194.23.102	51602	53602	239.194.24.102	52602	54602	4,875
103	Reserved								
104	Reserved								
105	Reserved								
106	Reserved								
107	Reserved								
108	Reserved								
109	Reserved								
110	FLEX Standard(WB)	Multicast group number (Dummy Symbols )	239.194.23.110	51610	53610	239.194.24.110	52610	54610	3,750

\*1 A separate contract is required if you use the FLEX High-speed Index service.

\*2 Users connecting in FLEX Full and FLEX Full(WB) can also obtain Base Price Information and Issue Information from FLEX Standard or FLEX Standard(WB).

You have to pay when you will receive Base Price Information. For details, please refer to the "Policies Regarding Usage of Market Information".

\* The total value for throttling for Issue Information(Stock/CB),TSE realtime(ToSTNeT) and TSE(Index/Statistics) is 800 transaction/sec.

【FLEX Standard/High-speed Index】

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	
001	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.1	51001	53001	239.194.22.1	52001	54001	15,600
002	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.2	51002	53002	239.194.22.2	52002	54002	15,600
003	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.3	51003	53003	239.194.22.3	52003	54003	15,600
004	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.4	51004	53004	239.194.22.4	52004	54004	15,600
005	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.5	51005	53005	239.194.22.5	52005	54005	15,600
006	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.6	51006	53006	239.194.22.6	52006	54006	15,600
007	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.7	51007	53007	239.194.22.7	52007	54007	15,600
008	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.8	51008	53008	239.194.22.8	52008	54008	15,600
009	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.9	51009	53009	239.194.22.9	52009	54009	15,600
010	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.10	51010	53010	239.194.22.10	52010	54010	15,600
011	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.11	51011	53011	239.194.22.11	52011	54011	15,600
012	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.12	51012	53012	239.194.22.12	52012	54012	15,600
013	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.13	51013	53013	239.194.22.13	52013	54013	15,600
014	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.14	51014	53014	239.194.22.14	52014	54014	15,600
015	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.15	51015	53015	239.194.22.15	52015	54015	15,600
016	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.16	51016	53016	239.194.22.16	52016	54016	15,600
017	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.17	51017	53017	239.194.22.17	52017	54017	15,600
018	FLEX Standard	TSE realtime (Stock・CB)	239.194.21.18	51018	53018	239.194.22.18	52018	54018	15,600
019	Reserved								
020	Reserved								
021	FLEX Standard	TSE base price(Stock・CB) <sup>*2</sup>	239.194.21.21	51021	53021	239.194.22.21	52021	54021	975
022	FLEX Standard	NSE realtime(Stock・CB)	239.194.21.22	51022	53022	239.194.22.22	52022	54022	3,800

(Appendix)IP Address/Port Number/The value for throttling

Multicast Group	Service	Information classification	Multicast Iaddress	Port number	Port number for Multicast routing maintenance message	Multicast Iaddress	Port number	Port number for Multicast routing maintenance message	The value for throttling (byte/25ms)
023	FLEX Standard	NSE base price(Stock・CB)	239.194.21.23	51023	53023	239.194.22.23	52023	54023	975
024	FLEX Standard	FSE realtime(Stock)	239.194.21.24	51024	53024	239.194.22.24	52024	54024	3,800
025	FLEX Standard	FSE base price(Stock)	239.194.21.25	51025	53025	239.194.22.25	52025	54025	975
026	FLEX Standard	SSE realtime(Stock)	239.194.21.26	51026	53026	239.194.22.26	52026	54026	3,800
027	FLEX Standard	SSE base price(Stock)	239.194.21.27	51027	53027	239.194.22.27	52027	54027	975
028	Reserved								
029	Reserved								
030	Reserved								
031	Reserved								
032	FLEX Standard	TSE issue information(Stock・CB) <sup>*3</sup>	239.194.23.32	51532	53532	239.194.24.32	52532	54532	*
033	FLEX Standard	NSE issue information(Stock・CB) <sup>*3</sup>	239.194.23.33	51533	53533	239.194.24.33	52533	54533	*
034	FLEX Standard	FSE issue information(Stock) <sup>*3</sup>	239.194.23.34	51534	53534	239.194.24.34	52534	54534	*
035	FLEX Standard	SSE issue information(Stock) <sup>*3</sup>	239.194.23.35	51535	53535	239.194.24.35	52535	54535	*
036	Reserved								
037	Reserved								
038	Reserved								
039	Reserved								
040	FLEX Standard	Multicast group number	239.194.21.40	51040	53040	239.194.22.40	52040	54040	750
041	FLEX Standard	TSE realtime (ToSTNeT) <sup>*3</sup>	239.194.23.41	51541	53541	239.194.24.41	52541	54541	*
042	FLEX Standard	TSE (Index・Statistics) <sup>*3</sup>	239.194.23.42	51542	53542	239.194.24.42	52542	54542	*
043	Reserved								
044	Reserved								
045	Reserved								
046	FLEX High-speed Index <sup>*1</sup>	TSE High-speed Index (TOPIX)	239.194.23.46	51546	53546	239.194.24.46	52546	54546	-
047	FLEX High-speed Index <sup>*1</sup>	TSE High-speed Index (TOPIX Core 30)	239.194.23.47	51547	53547	239.194.24.47	52547	54547	-
048	FLEX High-speed Index <sup>*1</sup>	TSE High-speed Index (TOPIX 500)	239.194.23.48	51548	53548	239.194.24.48	52548	54548	-
049	Reserved								
050	Reserved								
101	FLEX Standard	TSE realtime (Dummy Symbols )	239.194.21.101	51101	53101	239.194.22.101	52101	54101	2,000
102	FLEX Standard	TSE base price (Dummy Symbols )	239.194.21.102	51102	53102	239.194.22.102	52102	54102	975
103	Reserved								
104	Reserved								
105	Reserved								
106	Reserved								
107	Reserved								
108	Reserved								
109	Reserved								
110	FLEX Standard	Multicast group number (Dummy Symbols )	239.194.21.110	51110	53110	239.194.22.110	52110	54110	750

\*1 A separate contract is required if you use the FLEX High-speed Index service.

\*2 Users connecting in FLEX Full and FLEX Full(WB) can also obtain Base Price Information and Issue Information from FLEX Standard or FLEX Standard(WB).

You have to pay when you will receive Base Price Information. For details, please refer to the "Policies Regarding Usage of Market Information".

\*3 TSE distributes same multicast group and bandwidth as FLEX Standard(WB).

\* The total value for throttling for Issue Information(Stock/CB),TSE realtime(ToSTNeT) and TSE(Index/Statistics) is 800 transaction/sec.

(Appendix)IP Address/Port Number/The value for throttling

UDP Multicast (Production Line)

Please note that IP address and port number for FLEX Full and FLEX Full(WB) are different.

【FLEX Full(WB)】

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast lpadding	Port number	Port number for Multicast routing maintenance message	Multicast lpadding	Port number	Port number for Multicast routing maintenance message	
051	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.51	51551	53551	239.194.24.51	52551	54551	78,100
052	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.52	51552	53552	239.194.24.52	52552	54552	78,100
053	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.53	51553	53553	239.194.24.53	52553	54553	78,100
054	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.54	51554	53554	239.194.24.54	52554	54554	78,100
055	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.55	51555	53555	239.194.24.55	52555	54555	78,100
056	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.56	51556	53556	239.194.24.56	52556	54556	78,100
057	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.57	51557	53557	239.194.24.57	52557	54557	78,100
058	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.58	51558	53558	239.194.24.58	52558	54558	78,100
059	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.59	51559	53559	239.194.24.59	52559	54559	78,100
060	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.60	51560	53560	239.194.24.60	52560	54560	78,100
061	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.61	51561	53561	239.194.24.61	52561	54561	78,100
062	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.62	51562	53562	239.194.24.62	52562	54562	78,100
063	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.63	51563	53563	239.194.24.63	52563	54563	78,100
064	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.64	51564	53564	239.194.24.64	52564	54564	78,100
065	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.65	51565	53565	239.194.24.65	52565	54565	78,100
066	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.66	51566	53566	239.194.24.66	52566	54566	78,100
067	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.67	51567	53567	239.194.24.67	52567	54567	78,100
068	FLEX Full(WB)	TSE realtime (Stock・CB)	239.194.23.68	51568	53568	239.194.24.68	52568	54568	78,100
069	Reserved								
070	Reserved								
071	Reserved								
072	FLEX Full(WB)	NSE realtime(Stock・CB)	239.194.23.72	51572	53572	239.194.24.72	52572	54572	17,500
073	Reserved								
074	FLEX Full(WB)	FSE realtime(Stock)	239.194.23.74	51574	53574	239.194.24.74	52574	54574	17,500
075	Reserved								
076	FLEX Full(WB)	SSE realtime(Stock)	239.194.23.76	51576	53576	239.194.24.76	52576	54576	17,500
077	Reserved								
078	Reserved								
079	Reserved								
080	Reserved								
081	Reserved								
082	Reserved								
083	Reserved								
084	Reserved								
085	Reserved								
086	Reserved								
087	Reserved								
088	Reserved								
089	Reserved								
090	FLEX Full(WB)	Multicast group number	239.194.23.90	51590	53590	239.194.24.90	52590	54590	3,375
091	Reserved								
092	Reserved								
093	Reserved								
094	Reserved								

(Appendix)IP Address/Port Number/The value for throttling

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	
095	Reserved								
096	Reserved								
097	Reserved								
098	Reserved								
099	Reserved								
100	Reserved								
111	FLEX Full(WB)	TSE realtime (Dummy Symbols )	239.194.23.111	51611	53611	239.194.24.111	52611	54611	12,000
112	Reserved								
113	Reserved								
114	Reserved								
115	Reserved								
116	Reserved								
117	Reserved								
118	Reserved								
119	Reserved								
120	FLEX Full(WB)	Multicast group number (Dummy Symbols )	239.194.23.120	51620	53620	239.194.24.120	52620	54620	3,375

【FLEX Full】

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	
051	FLEX Full	TSE realtime (Stock・CB)	239.194.21.51	51051	53051	239.194.22.51	52051	54051	15,600
052	FLEX Full	TSE realtime (Stock・CB)	239.194.21.52	51052	53052	239.194.22.52	52052	54052	15,600
053	FLEX Full	TSE realtime (Stock・CB)	239.194.21.53	51053	53053	239.194.22.53	52053	54053	15,600
054	FLEX Full	TSE realtime (Stock・CB)	239.194.21.54	51054	53054	239.194.22.54	52054	54054	15,600
055	FLEX Full	TSE realtime (Stock・CB)	239.194.21.55	51055	53055	239.194.22.55	52055	54055	15,600
056	FLEX Full	TSE realtime (Stock・CB)	239.194.21.56	51056	53056	239.194.22.56	52056	54056	15,600
057	FLEX Full	TSE realtime (Stock・CB)	239.194.21.57	51057	53057	239.194.22.57	52057	54057	15,600
058	FLEX Full	TSE realtime (Stock・CB)	239.194.21.58	51058	53058	239.194.22.58	52058	54058	15,600
059	FLEX Full	TSE realtime (Stock・CB)	239.194.21.59	51059	53059	239.194.22.59	52059	54059	15,600
060	FLEX Full	TSE realtime (Stock・CB)	239.194.21.60	51060	53060	239.194.22.60	52060	54060	15,600
061	FLEX Full	TSE realtime (Stock・CB)	239.194.21.61	51061	53061	239.194.22.61	52061	54061	15,600
062	FLEX Full	TSE realtime (Stock・CB)	239.194.21.62	51062	53062	239.194.22.62	52062	54062	15,600
063	FLEX Full	TSE realtime (Stock・CB)	239.194.21.63	51063	53063	239.194.22.63	52063	54063	15,600
064	FLEX Full	TSE realtime (Stock・CB)	239.194.21.64	51064	53064	239.194.22.64	52064	54064	15,600
065	FLEX Full	TSE realtime (Stock・CB)	239.194.21.65	51065	53065	239.194.22.65	52065	54065	15,600
066	FLEX Full	TSE realtime (Stock・CB)	239.194.21.66	51066	53066	239.194.22.66	52066	54066	15,600
067	FLEX Full	TSE realtime (Stock・CB)	239.194.21.67	51067	53067	239.194.22.67	52067	54067	15,600
068	FLEX Full	TSE realtime (Stock・CB)	239.194.21.68	51068	53068	239.194.22.68	52068	54068	15,600
069	Reserved								
070	Reserved								
071	Reserved								
072	FLEX Full	NSE realtime(Stock・CB)	239.194.21.72	51072	53072	239.194.22.72	52072	54072	3,800
073	Reserved								
074	FLEX Full	FSE realtime(Stock)	239.194.21.74	51074	53074	239.194.22.74	52074	54074	3,800
075	Reserved								
076	FLEX Full	SSE realtime(Stock)	239.194.21.76	51076	53076	239.194.22.76	52076	54076	3,800
077	Reserved								



(Appendix)IP Address/Port Number/The value for throttling

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	
078	Reserved								
079	Reserved								
080	Reserved								
081	Reserved								
082	Reserved								
083	Reserved								
084	Reserved								
085	Reserved								
086	Reserved								
087	Reserved								
088	Reserved								
089	Reserved								
090	FLEX Full	Multicast group number	239.194.21.90	51090	53090	239.194.22.90	52090	54090	750
091	Reserved								
092	Reserved								
093	Reserved								
094	Reserved								
095	Reserved								
096	Reserved								
097	Reserved								
098	Reserved								
099	Reserved								
100	Reserved								
111	FLEX Full	TSE realtime (Dummy Symbols )	239.194.21.111	51111	53111	239.194.22.111	52111	54111	2,000
112	Reserved								
113	Reserved								
114	Reserved								
115	Reserved								
116	Reserved								
117	Reserved								
118	Reserved								
119	Reserved								
120	FLEX Full	Multicast group number (Dummy Symbols )	239.194.21.120	51120	53120	239.194.22.120	52120	54120	750

**(Appendix)IP Address/Port Number/The value for throttling**

TCP Unicast (Production Line)

**【FLEX Standard(WB),FLEX Standard】**

Please use following IP address and Port number for MCG001～018、021～027、040、101、102、110

		Request by message	
		Line 1	Line 2
Market information system side	IP address	10.17.89.200	
	Port number	56500	
User side	IP address	allocation by TSE for each user	allocation by TSE for each user
	Port number	56600	

Please use following IP address and Port number for MCG032～035、041～042

		Request by message	
		Line 1	Line 2
Market information system side	IP address	10.17.100.66	
	Port number	56500	
User side	IP address	allocation by TSE for each user	allocation by TSE for each user
	Port number	56600	

**【FLEX Full,FLEX Full (WB)】**

Please use following IP address and Port number for MCG051～068、072、074、076、090、111、120

		Request by message	
		Line 1	Line 2
Market information system side	IP address	10.17.89.200	
	Port number	56500	
User side	IP address	allocation by TSE for each user	allocation by TSE for each user
	Port number	56600	

(Appendix)IP Address/Port Number/The value for throttling

UDP Multicast (Test Environment 'A')

There is no distinction between FLEX Standard (WB) and FLEX Standard in the Test Environment 'A'.

Please note that FLEX Standard are not delivered from 'Line2'.

【FLEX Standard】

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Iaddress	Port number	Port number for Multicast routing maintenance message	Multicast Iaddress	Port number	Port number for Multicast routing maintenance message	
001	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.1	51501	53501	—	—	—	7,800
002	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.2	51502	53502	—	—	—	7,800
003	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.3	51503	53503	—	—	—	7,800
004	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.4	51504	53504	—	—	—	7,800
005	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.5	51505	53505	—	—	—	7,800
006	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.6	51506	53506	—	—	—	7,800
007	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.7	51507	53507	—	—	—	7,800
008	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.8	51508	53508	—	—	—	7,800
009	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.9	51509	53509	—	—	—	7,800
010	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.10	51510	53510	—	—	—	7,800
011	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.11	51511	53511	—	—	—	7,800
012	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.12	51512	53512	—	—	—	7,800
013	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.13	51513	53513	—	—	—	7,800
014	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.14	51514	53514	—	—	—	7,800
015	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.15	51515	53515	—	—	—	7,800
016	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.16	51516	53516	—	—	—	7,800
017	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.17	51517	53517	—	—	—	7,800
018	FLEX Standard	TSE realtime (Stock・CB)	239.194.23.18	51518	53518	—	—	—	7,800
019	Reserved					—	—	—	
020	Reserved					—	—	—	
021	FLEX Standard	TSE base price(Stock・CB)	239.194.23.21	51521	53521	—	—	—	975
022	FLEX Standard	NSE realtime(Stock・CB)	239.194.23.22	51522	53522	—	—	—	2,500
023	FLEX Standard	NSE base price(Stock・CB)	239.194.23.23	51523	53523	—	—	—	975
024	FLEX Standard	FSE realtime(Stock)	239.194.23.24	51524	53524	—	—	—	2,500
025	FLEX Standard	FSE base price(Stock)	239.194.23.25	51525	53525	—	—	—	975
026	FLEX Standard	SSE realtime(Stock)	239.194.23.26	51526	53526	—	—	—	2,500
027	FLEX Standard	SSE base price(Stock)	239.194.23.27	51527	53527	—	—	—	975
028	Reserved					—	—	—	
029	Reserved					—	—	—	
030	Reserved					—	—	—	
031	Reserved					—	—	—	
032	FLEX Standard	TSE issue information(Stock・CB)	239.194.23.32	51532	53532	—	—	—	*
033	FLEX Standard	NSE issue information(Stock・CB)	239.194.23.33	51533	53533	—	—	—	*
034	FLEX Standard	FSE issue information(Stock)	239.194.23.34	51534	53534	—	—	—	*
035	FLEX Standard	SSE issue information(Stock)	239.194.23.35	51535	53535	—	—	—	*
036	Reserved					—	—	—	
037	Reserved					—	—	—	
038	Reserved					—	—	—	
039	Reserved					—	—	—	
040	FLEX Standard	Multicast group number	239.194.23.40	51540	53540	—	—	—	750
041	FLEX Standard	TSE realtime (ToSTNeT)	239.194.23.41	51541	53541	—	—	—	*
042	FLEX Standard	TSE (Index・Statistics)	239.194.23.42	51542	53542	—	—	—	*
043	Reserved					—	—	—	



(Appendix)IP Address/Port Number/The value for throttling

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	
044	Reserved					-	-	-	
045	Reserved					-	-	-	
046	Reserved					-	-	-	
047	Reserved					-	-	-	
048	Reserved					-	-	-	
049	Reserved					-	-	-	
050	Reserved					-	-	-	
101	FLEX Standard	TSE realtime (Dummy Symbols )	239.194.23.101	51601	53601	-	-	-	1,500
102	FLEX Standard	TSE base price (Dummy Symbols )	239.194.23.102	51602	53602	-	-	-	975
103	Reserved					-	-	-	
104	Reserved					-	-	-	
105	Reserved					-	-	-	
106	Reserved					-	-	-	
107	Reserved					-	-	-	
108	Reserved					-	-	-	
109	Reserved					-	-	-	
110	FLEX Standard	Multicast group number (Dummy Symbols )	239.194.23.110	51610	53610	-	-	-	750

\*The total value for throting for Issue Information(Stock/CB),TSE realtime(ToSTNeT) and TSE(Index/Statistics) is 800 transaction/sec.

(Appendix)IP Address/Port Number/The value for throttling

UDP Multicast (Test Environment 'A')

There is no distinction between FLEX Full (WB) and FLEX Full in the Test Environment 'A'.

Please note that FLEX Full are not delivered from 'Line2'.

【FLEX Full】

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Iaddress	Port number	Port number for Multicast routing maintenance message	Multicast Iaddress	Port number	Port number for Multicast routing maintenance message	
051	FLEX Full	TSE realtime (Stock・CB)	239.194.23.51	51551	53551	—	—	—	7,800
052	FLEX Full	TSE realtime (Stock・CB)	239.194.23.52	51552	53552	—	—	—	7,800
053	FLEX Full	TSE realtime (Stock・CB)	239.194.23.53	51553	53553	—	—	—	7,800
054	FLEX Full	TSE realtime (Stock・CB)	239.194.23.54	51554	53554	—	—	—	7,800
055	FLEX Full	TSE realtime (Stock・CB)	239.194.23.55	51555	53555	—	—	—	7,800
056	FLEX Full	TSE realtime (Stock・CB)	239.194.23.56	51556	53556	—	—	—	7,800
057	FLEX Full	TSE realtime (Stock・CB)	239.194.23.57	51557	53557	—	—	—	7,800
058	FLEX Full	TSE realtime (Stock・CB)	239.194.23.58	51558	53558	—	—	—	7,800
059	FLEX Full	TSE realtime (Stock・CB)	239.194.23.59	51559	53559	—	—	—	7,800
060	FLEX Full	TSE realtime (Stock・CB)	239.194.23.60	51560	53560	—	—	—	7,800
061	FLEX Full	TSE realtime (Stock・CB)	239.194.23.61	51561	53561	—	—	—	7,800
062	FLEX Full	TSE realtime (Stock・CB)	239.194.23.62	51562	53562	—	—	—	7,800
063	FLEX Full	TSE realtime (Stock・CB)	239.194.23.63	51563	53563	—	—	—	7,800
064	FLEX Full	TSE realtime (Stock・CB)	239.194.23.64	51564	53564	—	—	—	7,800
065	FLEX Full	TSE realtime (Stock・CB)	239.194.23.65	51565	53565	—	—	—	7,800
066	FLEX Full	TSE realtime (Stock・CB)	239.194.23.66	51566	53566	—	—	—	7,800
067	FLEX Full	TSE realtime (Stock・CB)	239.194.23.67	51567	53567	—	—	—	7,800
068	FLEX Full	TSE realtime (Stock・CB)	239.194.23.68	51568	53568	—	—	—	7,800
069	Reserved					—	—	—	
070	Reserved					—	—	—	
071	Reserved					—	—	—	
072	FLEX Full	NSE realtime(Stock・CB)	239.194.23.72	51572	53572	—	—	—	2,500
073	Reserved					—	—	—	
074	FLEX Full	FSE realtime(Stock)	239.194.23.74	51574	53574	—	—	—	2,500
075	Reserved					—	—	—	
076	FLEX Full	SSE realtime(Stock)	239.194.23.76	51576	53576	—	—	—	2,500
077	Reserved					—	—	—	
078	Reserved					—	—	—	
079	Reserved					—	—	—	
080	Reserved					—	—	—	
081	Reserved					—	—	—	
082	Reserved					—	—	—	
083	Reserved					—	—	—	
084	Reserved					—	—	—	
085	Reserved					—	—	—	
086	Reserved					—	—	—	
087	Reserved					—	—	—	
088	Reserved					—	—	—	
089	Reserved					—	—	—	
090	FLEX Full	Multicast group number	239.194.23.90	51590	53590	—	—	—	750
091	Reserved					—	—	—	
092	Reserved					—	—	—	
093	Reserved					—	—	—	

(Appendix)IP Address/Port Number/The value for throttling

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	
094	Reserved					-	-	-	
095	Reserved					-	-	-	
096	Reserved					-	-	-	
097	Reserved					-	-	-	
098	Reserved					-	-	-	
099	Reserved					-	-	-	
100	Reserved					-	-	-	
111	FLEX Full	TSE realtime (Dummy Symbols )	239.194.23.111	51611	53611	-	-	-	1,500
112	Reserved					-	-	-	
113	Reserved					-	-	-	
114	Reserved					-	-	-	
115	Reserved					-	-	-	
116	Reserved					-	-	-	
117	Reserved					-	-	-	
118	Reserved					-	-	-	
119	Reserved					-	-	-	
120	FLEX Full	Multicast group number (Dummy Symbols )	239.194.23.120	51620	53620	-	-	-	750

**(Appendix)IP Address/Port Number/The value for throttling**

TCP Unicast (Test Environment 'A')

**【FLEX Standard】**

Please use following IP address and Port number for MCG001～018、021～027、040、101、102、110

		Request by message	
		Line 1	Line 2
Market information system side	IP address	10.17.89.200	—
	Port number	56500	—
User side	IP address	allocation by TSE for each user	—
	Port number	56600	—

Please use following IP address and Port number for MCG032～035、041～042

		Request by message	
		Line 1	Line 2
Market information system side	IP address	10.17.100.66	—
	Port number	56500	—
User side	IP address	allocation by TSE for each user	—
	Port number	56600	—

**【FLEX Full】**

Please use following IP address and Port number for MCG051～068、072、074、076、090、111、120

		Request by message	
		Line 1	Line 2
Market information system side	IP address	10.17.89.200	—
	Port number	56500	—
User side	IP address	allocation by TSE for each user	—
	Port number	56600	—

(Appendix)IP Address/Port Number/The value for throttling

UDP Multicast (Test Environment 'B')

There is no distinction between FLEX Standard (WB) and FLEX Standard in the Test Environment 'B'.

Please note that FLEX Standard are not delivered from 'Line2'.

【FLEX Standard】

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	
001	FLEX Standard	TSE realtime (Stock・CB)	239.194.153.1	51501	53501	-	-	-	17,500
002	FLEX Standard	TSE realtime (Stock・CB)	239.194.153.2	51502	53502	-	-	-	17,500
003	FLEX Standard	TSE realtime (Stock・CB)	239.194.153.3	51503	53503	-	-	-	17,500
004	FLEX Standard	TSE realtime (Stock・CB)	239.194.153.4	51504	53504	-	-	-	17,500
005	FLEX Standard	TSE realtime (Stock・CB)	239.194.153.5	51505	53505	-	-	-	17,500
006	FLEX Standard	TSE realtime (Stock・CB)	239.194.153.6	51506	53506	-	-	-	17,500
007	FLEX Standard	TSE realtime (Stock・CB)	239.194.153.7	51507	53507	-	-	-	17,500
008	FLEX Standard	TSE realtime (Stock・CB)	239.194.153.8	51508	53508	-	-	-	17,500
009	Reserved					-	-	-	
010	Reserved					-	-	-	
011	Reserved					-	-	-	
012	Reserved					-	-	-	
013	Reserved					-	-	-	
014	Reserved					-	-	-	
015	Reserved					-	-	-	
016	Reserved					-	-	-	
017	Reserved					-	-	-	
018	Reserved					-	-	-	
019	Reserved					-	-	-	
020	Reserved					-	-	-	
021	FLEX Standard	TSE base price(Stock・CB)	239.194.153.21	51521	53521	-	-	-	975
022	Reserved					-	-	-	
023	Reserved					-	-	-	
024	FLEX Standard	FSE realtime(Stock)	239.194.153.24	51524	53524	-	-	-	2,500
025	FLEX Standard	FSE base price(Stock)	239.194.153.25	51525	53525	-	-	-	975
026	Reserved					-	-	-	
027	Reserved					-	-	-	
028	Reserved					-	-	-	
029	Reserved					-	-	-	
030	Reserved					-	-	-	
031	Reserved					-	-	-	
032	Reserved					-	-	-	
033	Reserved					-	-	-	
034	Reserved					-	-	-	
035	Reserved					-	-	-	
036	Reserved					-	-	-	
037	Reserved					-	-	-	
038	Reserved					-	-	-	
039	Reserved					-	-	-	
040	FLEX Standard	Multicast group number	239.194.153.40	51540	53540	-	-	-	750
041	Reserved					-	-	-	
042	Reserved					-	-	-	
043	Reserved					-	-	-	

(Appendix)IP Address/Port Number/The value for throttling

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	
044	Reserved					-	-	-	
045	Reserved					-	-	-	
046	Reserved					-	-	-	
047	Reserved					-	-	-	
048	Reserved					-	-	-	
049	Reserved					-	-	-	
050	Reserved					-	-	-	
101	FLEX Standard	TSE realtime (Dummy Symbols )	239.194.153.101	51601	53601	-	-	-	1,500
102	FLEX Standard	TSE base price (Dummy Symbols )	239.194.153.102	51602	53602	-	-	-	975
103	Reserved					-	-	-	
104	Reserved					-	-	-	
105	Reserved					-	-	-	
106	Reserved					-	-	-	
107	Reserved					-	-	-	
108	Reserved					-	-	-	
109	Reserved					-	-	-	
110	FLEX Standard	Multicast group number (Dummy Symbols )	239.194.153.110	51610	53610	-	-	-	750



(Appendix)IP Address/Port Number/The value for throttling

UDP Multicast (Test Environment 'B')

There is no distinction between FLEX Full (WB) and FLEX Full in the Test Environment 'B'.

Please note that FLEX Full are not delivered from 'Line2'.

【FLEX Full】

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	
051	FLEX Full	TSE realtime (Stock・CB)	239.194.153.51	51551	53551	-	-	-	17,500
052	FLEX Full	TSE realtime (Stock・CB)	239.194.153.52	51552	53552	-	-	-	17,500
053	FLEX Full	TSE realtime (Stock・CB)	239.194.153.53	51553	53553	-	-	-	17,500
054	FLEX Full	TSE realtime (Stock・CB)	239.194.153.54	51554	53554	-	-	-	17,500
055	FLEX Full	TSE realtime (Stock・CB)	239.194.153.55	51555	53555	-	-	-	17,500
056	FLEX Full	TSE realtime (Stock・CB)	239.194.153.56	51556	53556	-	-	-	17,500
057	FLEX Full	TSE realtime (Stock・CB)	239.194.153.57	51557	53557	-	-	-	17,500
058	FLEX Full	TSE realtime (Stock・CB)	239.194.153.58	51558	53558	-	-	-	17,500
059	Reserved					-	-	-	
060	Reserved					-	-	-	
061	Reserved					-	-	-	
062	Reserved					-	-	-	
063	Reserved					-	-	-	
064	Reserved					-	-	-	
065	Reserved					-	-	-	
066	Reserved					-	-	-	
067	Reserved					-	-	-	
068	Reserved					-	-	-	
069	Reserved					-	-	-	
070	Reserved					-	-	-	
071	Reserved					-	-	-	
072	Reserved					-	-	-	
073	Reserved					-	-	-	
074	FLEX Full	FSE realtime(Stock)	239.194.153.74	51574	53574	-	-	-	2,500
075	Reserved					-	-	-	
076	Reserved					-	-	-	
077	Reserved					-	-	-	
078	Reserved					-	-	-	
079	Reserved					-	-	-	
080	Reserved					-	-	-	
081	Reserved					-	-	-	
082	Reserved					-	-	-	
083	Reserved					-	-	-	
084	Reserved					-	-	-	
085	Reserved					-	-	-	
086	Reserved					-	-	-	
087	Reserved					-	-	-	
088	Reserved					-	-	-	
089	Reserved					-	-	-	
090	FLEX Full	Multicast group number	239.194.153.90	51590	53590	-	-	-	750
091	Reserved					-	-	-	
092	Reserved					-	-	-	
093	Reserved					-	-	-	

(Appendix)IP Address/Port Number/The value for throttling

Multicast Group	Service	Information classification	Line1			Line2			The value for throttling (byte/25ms)
			Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	Multicast Ipaddress	Port number	Port number for Multicast routing maintenance message	
094	Reserved					-	-	-	
095	Reserved					-	-	-	
096	Reserved					-	-	-	
097	Reserved					-	-	-	
098	Reserved					-	-	-	
099	Reserved					-	-	-	
100	Reserved					-	-	-	
111	FLEX Full	TSE realtime (Dummy Symbols )	239.194.153.111	51611	53611	-	-	-	1,500
112	Reserved					-	-	-	
113	Reserved					-	-	-	
114	Reserved					-	-	-	
115	Reserved					-	-	-	
116	Reserved					-	-	-	
117	Reserved					-	-	-	
118	Reserved					-	-	-	
119	Reserved					-	-	-	
120	FLEX Full	Multicast group number (Dummy Symbols )	239.194.153.120	51620	53620	-	-	-	750

**(Appendix)IP Address/Port Number/The value for throttling**

TCP Unicast (Test Environment 'B')

**【FLEX Standard】**

Please use following IP address and Port number for MCG001～008, 021, 024, 025, 040, 101, 102, 110

		Request by message	
		Line 1	Line 2
Market information system side	IP address	10.27.216.200	—
	Port number	56500	—
User side	IP address	allocation by TSE for each user	—
	Port number	56600	—

**【FLEX Full】**

Please use following IP address and Port number for MCG051～058, 074, 090, 111, 120

		Request by message	
		Line 1	Line 2
Market information system side	IP address	10.27.216.200	—
	Port number	56500	—
User side	IP address	allocation by TSE for each user	—
	Port number	56600	—