

Dissemination of Market Data

Delta1 OCTP disseminates data via the multicast network protocol and implements a parallel primary and secondary feed architecture. Content is pushed in a single direction from Delta1 to the consumer. Delta1 OCTP does not support retransmission requests. Access to multicast feeds is only available by single mode fiber direct connect to Delta1 at the dissemination site.

Overview:

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Delivery Points

Delta1 OCTP data is available from both Delta1 Production and Disaster Recovery Data Centers. Please note that the Disaster Recovery (standby) feeds are only available in a disaster scenario, as the usual state of such channels is down.

Channel Groups	Environment	State	Site
A/B	Production	Live	755 Secaucus Rd (NY4)
A/B	Production	Standby	350 E Cermak Rd (CH1)
C	User Acceptance Test	Live	350 E Cermak Rd (CH1)

The A/B channel groups are the primary and secondary sources and disseminate data for the production Delta1 trading network. In a disaster scenario, the A/B live groups are downed and the A/B standby groups begin disseminating data for the production Delta1 trading network running out of the disaster recovery site.

The C group is the primary source and disseminates data for the user acceptance testing (UAT) Delta1 network. Market participants interested in developing, testing, and conforming trading applications as well as Delta1 OCTP applications can use this channel group to interact with the Delta1 UAT sandbox. The exchange deploys all software releases to this environment prior to production.

Network Configuration

Joining multicast groups requires PIM sparse mode with a statically defined rendezvous point (RP). Please see the multicast source networks and corresponding RPs by channel feeds below:

Channel Feeds	Source Network	Rendezvous Point
A/B (Live)	192.112.37.32/29	192.112.37.253/32
A/B (Standby)	192.112.37.40/29	192.112.37.252/32
C	192.112.37.48/29	192.112.37.250/32

Multicast Channel Addresses

All multicast channels are in the **233.158.244.0/24** subnet. Provided in the table below is the last octet and port of the channel by feed.

Channel	A/B (Live)	A/B (Standby)	C
Event Driven			
Main	.10:51000	.110:53000	.130:55000
	.20:52000	.120:54000	
Level 1	.18:51008	.118:53008	.138:55008
	.28:52008	.128:54008	
Level 2	.14:51004	.114:53004	.134:55004
	.24:52004	.124:54004	
Refresh			

Instrument Definition	.19:51009 .29:52009	.119:53009 .129:54009	.139:55009
Level 1 Non-Strategy	.15:51005 .25:52005	.115:53005 .125:54005	.135:55005
Level 1 Strategy	.17:51007 .27:52007	.117:53007 .127:54007	.137:55007
Level 2 Non-Strategy	.11:51001 .21:52001	.111:53001 .121:54001	.131:55001
Level 2 Strategy	.13:51003 .23:52003	.113:53003 .123:54003	.133:55003