

Fusion FI Production Connectivity Details – IP Subnets and Ports – VASBY and STOCKHOLM SOUTH

Below connectivity details pertain to **Fusion FI Production** environment.

For protocols where only subnet/range is specified, the specific IP address will be included in each member's account details available via [Member Portal](#) or from MAC@nasdaq.com.

BGP/Routing

VASBY/Primary site – Nasdaq advertises three networks: **204.190.152.0/24** and the ITCH A- and B- multicast source subnets **204.190.152.32/29** (A-feed), **204.190.152.40/29** (B-feed).

STOCKHOLM SOUTH/DR site – Nasdaq advertises three networks: **204.190.154.0/24** and the A- and B- multicast source subnets **204.190.154.32/29** (A-feed), **204.190.154.40/29** (B-feed).

Unicast services VASBY and STOCKHOLM SOUTH datacenters

Protocol / Service	IP ranges – Site A (VASBY) All primary and secondary ports (Co-Lo), All primary ports (non-Co-Lo)	IP ranges – Site B (Future STOCKHOLM SOUTH) All secondary ports (non-Co-Lo)	Port Range
FIX Order Entry	204.190.152.128/25	204.190.154.128/25	8500-8699
FIX Drop	204.190.152.128/25	204.190.154.128/25	6500-6699

Multicast services – Site A (VASBY datacenter)

VASBY – ITCH Multicast (Extranet, Direct Connect, NODE, Co-Lo 1G):

ITCH Multicast Fixed Income (1G) ¹ - Site A (VASBY)	Primary - A Flow	Secondary/Failover - B Flow	Port / Port Range
ITCH Multicast UDP	Source IP address: 204.190.152.32 (within subnet 204.190.152.32/29) Destination IP address and port in direction to client: Multicast group address: 233.213.44.32 UDP Port: 18511	Source IP address: 204.190.152.40 (within subnet 204.190.152.40/29) Destination IP address and port in direction to client: Multicast group address: 233.213.44.34 UDP Port: 18512 (VASBY B Flow not sent to NODE)	
ITCH Re-request UDP	IP address: 204.190.152.64 UDP Port: 16132	IP address: 204.190.152.72 UDP Port: 16132	16132
ITCH Re-request TCP	204.190.152.64 - 204.190.152.71	204.190.152.72 - 204.190.152.79	16130- 16139
GLIMPSE TCP (ITCH)	204.190.152.64 - 204.190.152.71	204.190.152.72 - 204.190.152.79	16330- 16339
Rendezvous Point (RP) - PIM-SM join message Extranet providers, Direct Connect and Co-Lo 1G in VASBY	RP-A: 159.79.85.192/32	RP-B: 159.79.85.193/32	

Multicast services – Site B (STOCKHOLM SOUTH datacenter)

STOCKHOLM SOUTH – ITCH Multicast (Extranet, Direct Connect, NODE):

ITCH Multicast Fixed Income (1G) ¹ - Site B (STOCKHOLM SOUTH)	Primary - A Flow	Secondary/Failover - B Flow	Port / Port Range
ITCH Multicast UDP	<p>Source IP address: 204.190.154.32 (within subnet 204.190.154.32/29)</p> <p>Destination IP address and port in direction to client: Multicast group address: 233.213.44.144 UDP Port: 18611</p> <p>(STOCKHOLM SOUTH A Flow not sent to NODE)</p>	<p>Source IP address: 204.190.154.40 (within subnet 204.190.154.40/29)</p> <p>Destination IP address and port in direction to client: Multicast group address: 233.213.44.146 UDP Port: 18612</p>	
ITCH Re-request UDP	IP address: 204.190.154.64 UDP Port: 16132	IP address: 204.190.154.72 UDP Port: 16132	16132
ITCH Re-request TCP	204.190.154.64 - 204.190.154.71	204.190.154.72 - 204.190.154.79	16130-16139
GLIMPSE TCP (ITCH)	204.190.154.64 - 204.190.154.71	204.190.154.72 - 204.190.154.79	16330-16339
Rendezvous Point (RP) - PIM-SM join message Extranet providers, Direct Connect in STOCKHOLM SOUTH	RP-A: 159.79.85.194/32	RP-B: 159.79.85.195/32	

¹ For general information on ITCH Multicast setup, please consult the INET ITCH UDP Multicast presentation (Cash Equity) at <https://www.nasdaq.com/solutions/european-market-connectivity>