

## Fusion FI Test system (FI Test) Connectivity Details – IP Subnets and Ports – VASBY

Below connectivity details pertain to **Fusion FI Test (FI Test)** environment. Connectivity details to Production environment are published separately.

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](mailto:MAC@nasdaq.com).

### BGP/Routing

VASBY – Nasdaq advertises three networks: **204.190.150.0/24** and the ITCH A- and B- multicast source subnets **204.190.150.32/28** (A-feed), **204.190.150.48/28** (B-feed).

### Unicast services VASBY

Protocol / Service	IP ranges within announced subnet - Primary	IP ranges within announced subnet - Secondary/Failover	Port Range
FIX Order Entry	<b>204.190.150.64/26</b>	<b>204.190.150.64/26</b>	<b>8200-8299</b>
FIX Drop	<b>204.190.150.64/26</b>	<b>204.190.150.64/26</b>	<b>6200-6299</b>

### Multicast services VASBY - Extranet, Direct Connect, NODE and Colo 1G Access

ITCH Multicast Fixed Income (1G) <sup>1</sup>	Primary - A Flow	Secondary/Failover - B Flow	Port
ITCH Multicast <sup>1</sup> UDP	Source IP address: <b>204.190.150.32</b> (within subnet <b>204.190.150.32/28</b> )  Destination IP address and port in direction to client: Multicast group address: <b>233.213.44.48</b> <b>UDP Port: 18032</b>	Source IP address: <b>204.190.150.48</b> (within subnet <b>204.190.150.48/28</b> )  Destination IP address and port in direction to client: Multicast group address: <b>233.213.44.50</b> <b>UDP Port: 18032</b>	<b>18032</b>
ITCH Re-request UDP	IP address: <b>204.190.150.128</b> <b>UDP Port: 18132</b>	IP address: <b>204.190.150.144</b> <b>UDP Port: 18132</b>	<b>18132</b>
ITCH Re-request TCP	IP address: <b>204.190.150.130</b> <b>TCP Port: 18132</b>	IP address: <b>204.190.150.146</b> <b>TCP Port: 18132</b>	<b>18132</b>
GLIMPSE TCP (ITCH)	IP address: <b>204.190.150.129</b> <b>TCP Port: 18332</b>	IP address: <b>204.190.150.145</b> <b>TCP Port: 18332</b>	<b>18332</b>
Rendezvous Point (RP) - PIM-SM join message <b>Extranet providers, Direct Connect and Co-Lo 1G in VASBY</b>	<b>RP-A: 159.79.85.254/32</b>	<b>RP-B: 159.79.85.255/32</b>	

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