

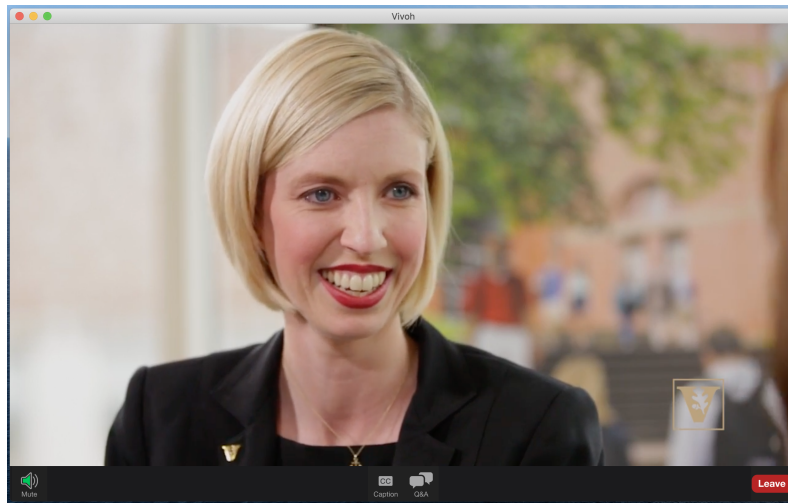
Vivoh Offering for FINRA

FINRA uses Zoom and Vimeo services for hybrid meetings and events.

Vivoh mitigates the risk of network congestion caused by these services when FINRA employees consume them from their offices.

The offering includes Vivoh PC software (client) which imitates the Zoom and Vimeo user interfaces and functionality while adding the multicast networking protocol to provide a more efficient means of video transmission within office networks.

The offering includes Vivoh server software that transforms Zoom and Vimeo video from unicast to multicast and that redirects user requests to either the Zoom and Vimeo clients or to the Vivoh client. This software is installed in both FINRA and Amazon data centers.



Vivoh Multicast PC Software

FINRA communications managers use the Vivoh offering by configuring Zoom or Vimeo to send a video stream to the Vivoh servers and by publishing a link to these servers. An example published link is <https://finra.vivoh.com/zoom/12345> which points to an Amazon-hosted Vivoh server.

When users click on this link, their browser sends information to the Vivoh server software which determines whether the user is capable of receiving a multicast stream.

If users are inside the FINRA network, their browser will send the IP address of the FINRA gateway device to the Vivoh server which responds with a redirect command to a new link to a FINRA-hosted Vivoh server, like this: <https://vivoh.finra.org/zoom/12345>, otherwise it will open the Zoom client which provides unicast access to the hybrid meeting or event.

If users are on a multicast-capable network within FINRA, upon said redirect request the FINRA-hosted Vivoh server will start the multicast broadcast and will respond with a command to launch the Vivoh client and join the multicast broadcast, otherwise it will open the Zoom client.

Vimeo events are similarly supported like so: <https://finra.vivoh.com/webcast/12345>