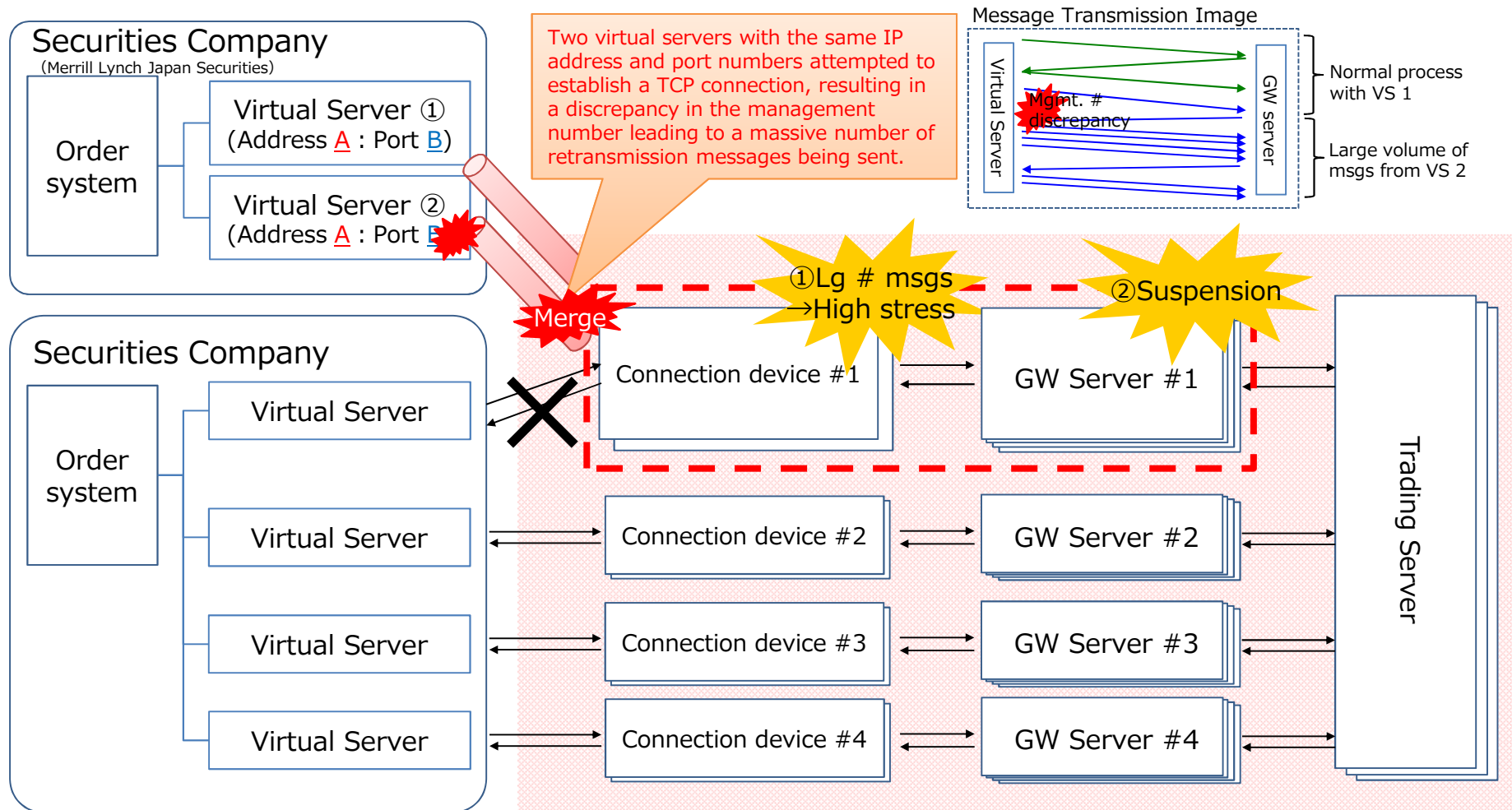


Reference: Overview of Incident



- Securities companies use virtual servers – connection points to the arrowhead system – to connect to arrowhead gateway servers (“GW servers”) and send order messages to trading servers which process trading.
- 【Behavior on the day of the incident】
- Virtual servers that were assigned the same IP address and port number were activated simultaneously, which resulted in a discrepancy in the TCP connection management number. This triggered a massive number of retransmission messages to be sent to the system in a short period of time.
 - Connection device #1 experienced heavy stress, which resulted in the system suspending the function of all GW servers connected to that connection device to maintain stability.
 - The virtual servers connected to the GW servers under connection device #1 were unable to connect to arrowhead, and orders were unable to be placed on that connection route.