

CUSTOMER CASE

TRADING NETWORK LATENCY MEASUREMENT

THE CHALLENGE

In financial institutions, each market event generates an update in the form of a short data message. If such messages are not communicated instantly over financial institutions' networks, in the right sequence, opportunities may be lost, or trading may not take place on fair and equal terms. Globally, millions of market event messages are exchanged every second. This requires nanosecond precision time-stamping of every packet and accurate time synchronization across global trading venues.

THE SOLUTION

Financial institutions use network monitoring appliances with built-in Napatech accelerators that guarantee zero loss of data packets. Napatech accelerators can time-stamp data packets with nanosecond precision. However, to measure network latency between venues, the time stamps also need to share an accurate common time reference. Napatech accelerators are available with onboard PTP support, allowing accurate synchronization of multiple accelerators to the same time reference.

THE BENEFIT

Napatech accelerators guarantee that no data packet is ever missed. Napatech accelerators' precise time-stamping and onboard PTP support lets financial institutions measure and compensate for network delays effectively. Napatech accelerators with onboard PTP support are automatically able to select the best possible master time reference and automatically compensate for trivial factors like cable length-dependent network delays.

COMPANY PROFILE

Napatech is the world leader in accelerating network management and security applications. As data volume and complexity grow, the performance of these applications needs to stay ahead of the speed of networks in order to do their jobs. We make this possible, for even the most demanding financial, telecom, corporate and government networks. Now and in the future, we enable our customers' applications to run faster than the networks they need to manage and protect.

