



Product Focus

Data Communication under the Microscope: Monitoring with PTM

If you want to efficiently develop advanced real-time capable applications, it is worth monitoring real-time data traffic very closely for analysis and troubleshooting purposes. However, the operating principle of Kithara RealTime Suite does usually not allow Windows to have access to the relevant communication between real-time environment and hardware, as Windows is kept isolated from it. To remedy that, virtual Ethernet interfaces can be utilized.

The Kithara Network PTM Extension (Pass-through and Mirroring) allows for the creation of these interfaces and, by employing port pass-through or port mirroring, provides Windows the means to view the real-time data communication. When using passthrough, a Windows application communicates directly with such a virtual net-

work interface, through which a real-time application “passes” the data. Mirroring, on the other hand, is utilized for recording real-time data traffic between application and hardware by creating a copy of the data at the virtual network interface and providing it to Windows for analysis purposes. This enables applications such as Wireshark to log, monitor and evaluate real-time data.

This functionality, for the data communication between real-time environment and hardware to be visible in Windows, makes the Network PTM Extension a powerful developer tool for efficient debugging and analysis.

The latest information about Kithara products as well as a free 90-day trial version can be found [on our website](#).

