

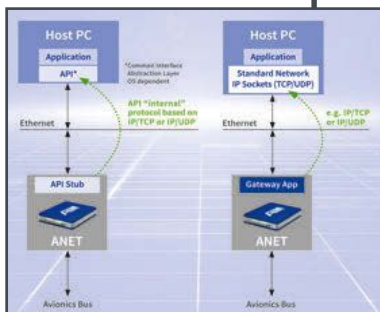
OPENING THE GATE

Since Ethernet has become a built-in standard interface of almost any PC, it has also become a choice for the connection of different kind of peripheral devices in test systems.

Ethernet based Avionics interfaces like the AIM ANET family supports the integration of Avionics buses via Ethernet into a test system. From a hardware point of view, the integration is easy and simply achieved by connecting an AIM ANET interface to the corresponding Ethernet network or directly to a PC.

From the software prospective one of today's buzz words is 'Gateway' such that almost everything must be translated into Ethernet compatible traffic, meaning the translation of avionics bus traffic into Ethernet traffic and vice versa.

The typical network protocols for such a gateway application are IP with TCP and/or UDP on top of IP protocol. Use of these protocols enables the connection of any IP and TCP/UDP capable host environment to communicate without the need for a device specific API on the host side. But there is no "golden standard" of how such a gateway translation must happen, how it is to be configured and how Avionics data are organised over Ethernet. Nonetheless the AIM ANET family is flexible enough to allow implementation of such a gateway by way of onboard Python Scripting or C/C++ of the required application and then operate the ANET in a standalone mode acting as the Gateway between Avionics and Ethernet. \\\



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