

# Re: which kind of driver to design for AoE protocol?

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<http://www.tech-archive.net/Archive/Development/microsoft.public.development.device.drivers/2006-08/msg01162.html>

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- *From:* "KOOLER" <[anton@xxxxxxxxxxxxxxxxxxxx](mailto:anton@xxxxxxxxxxxxxxxxxxxx)>
  - *Date:* 25 Aug 2006 19:38:53 -0700
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The whole idea of using raw ethernet instead of TCP as a transport is to make the thing faster to run. With your vision of incapsulating AoE ethernet frames inside UDP you'll have everything working 1) dog slow 2) you would not be compatible with exiting AoE hardware and software targets. The only benefit you'd have – your own protocol would be IP routable...

Looks like you're not far far away from the original question :)

Anton

soviet\_bloke@xxxxxxxxxxxx =0?8A02:

Hi Maxim

What about implementing AoE over UDP (i.e. more or less the same way VPN drivers implement PPP over TCP)

How is this possible? This is IIRC Ethernet-based protocol, which is not compatible with TCP/IP at all. I don't think AoE packets have IP headers, for instance.

As long as your software is installed on both ends of communication, there is no problem whatsoever. After all, it does not matter what kind of transport communicating parties chose – as long as packets reach their destination there is no problem whatsoever. Therefore, they may choose UDP as their transport, i.e. wrap their packets into UDP ones and send them as UDP data. As far as network is concerned, the whole thing is all about exchanging UDP packets – it has no idea about AoE whatsoever. Certainly, if your software is installed only on one end of communication and another endpoint is system-provided, it is not going to work this way....

Re: which kind of driver to design for AoE protocol?

Anton Bassov

AoE packets have a meaning only for drivers that actually communicate over AoE, and  
Maxim S. Shatskih wrote:

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Don't forget that the OP does not have any kernel-mode experience. In fact, TDI client is pretty much the same thing as Winsock (although more cumbersome and a bit confusing at the first glance – I don't argue about that).

TDI is by far harder to understand and there is no samples.

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Maxim Shatskih, Windows DDK MVP  
StorageCraft Corporation  
maxim@xxxxxxxxxxxxxxxxxxx  
<http://www.storagecraft.com>