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Subject: Re: PCIe-AS - Tutorial -- Is there a CRC for the address header ?

Posted by [Walter F.J. Müller](#) on Wed, 15 Sep 2004 14:05:10 GMT

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David Slogsnat wrote on Wed, 15 September 2004 14:59 This is true. However, things get more complicated when looking at the ASI specification:

-The Turn Pointer is not included in the header CRC.

-The final receiver of an AS Packet has to check the CRC. The intermediate switches may check it, but they don't have to.

One thing you can observe from this is that a packet may reach a wrong receiver due to a bit error in the Turn Pointer. The sender cannot be notified of this failed message transfer, since the Turn Pool in reverse direction does not lead to it.

Also, I wonder how the wrong receiver finds out that the packet was intended for another destination, since the header CRC check will not show an error!!!

How were all these header corruption issues solved in ATOLL, which uses a quite similar path addressing scheme ?

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