

## Re: pppoa connection

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2007-10/msg00235.html>

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- *From:* Kim Shrier <[kim@xxxxxxxxxxx](mailto:kim@xxxxxxxxxxx)>
  - *Date:* Fri, 26 Oct 2007 01:06:30 -0600
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I do have a fixed IP address. I have tried using their modem as a router and assigned my IP address to the modem. This forces me to use the NAT facility in the modem and it keeps dropping my ssh sessions. I have also seen the modem drop the pppoa connection and not be able to reestablish it until I reboot the modem.

The only thing this fine piece of equipment has been able to do reliably is maintain the virtual circuit to the ISP. Anything at a higher level in the protocol stack is too flakey. Hence, I just want it to act as the most stupid of pipes between me and the ISP.

Other people successfully use this modem to connect to their ISP when the ISP accepts pppoe connections and the modem is configured as a bridge. Unfortunately, my ISP doesn't support pppoe, only pppoa.

So, can I pull this off?

On Oct 25, 2007, at 11:29 PM, Barney Wolff wrote:

Try just treating the modem's ethernet as though it were a local router port, using (unless they've assigned you a fixed address) DHCP. If your ISP is like mine, the PPPOA and 1483 stuff is between the modem and their router and invisible to you.

On Thu, Oct 25, 2007 at 07:50:54PM -0600, Kim Shrier wrote:

I am wondering if the following is possible.

My local ISP only uses pppoa for their DSL customers. They have provided me with an Actiontec GT701 DSL modem. I want to configure the modem to use RFC 1483 transparent bridging. This modem has both an ethernet and USB interface for the LAN connection.

I have a FreeBSD box that I have configured as my router and

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firewall. It is currently being used to connect to my ISP using a radio link so I know that it is configured properly for routing and firewalling.

The question is, can I establish a pppoa connection from the FreeBSD box to my ISP by sending packets over ethernet to the DSL modem?

Thanks,  
Kim

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Barney Wolff I never met a computer I didn't like.

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