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## A/UX 3.0: Doesn't Support Proxy ARP

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TOPIC -----

Does A/UX support Proxy ARP?

DISCUSSION -----

No, the current version of A/UX 3.0 doesn't support Proxy ARP (Address Resolution Protocol), which is an Internet protocol used to dynamically map between Internet IP and Ethernet addresses.

The routing mechanism supported under A/UX is for fixed routes set up in the routing table at startup time. Here's an example of configuration commands:

```
ifconfig ae0 130.43.4.10 netmask 255.255.255.0
```

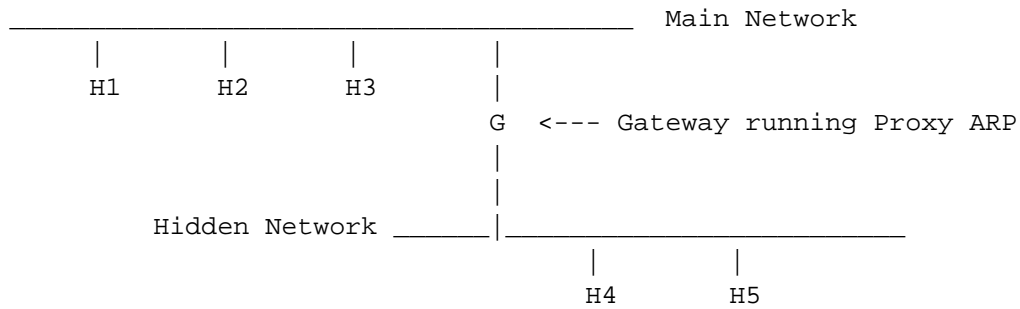
and/or

```
route add 130.43.6.0 130.43.4.1 1
```

This specifies that in order to reach network 130.43.6, a gateway at address 130.43.4.1 should be used.

A section of text in "Internetworking with TCP/IP" by Douglas Comer describes Proxy ARP in great detail. Here's a part of the text:

The term proxy, promiscuous ARP, and the ARP hack refer to a second technique used to map a single IP network prefix onto multiple physical addresses. The technique, which only applies to networks that use ARP to bind internet addresses to physical addresses, can best be explained with an example below:



Proxy ARP technique (the ARP hack) allows one network address to be shared between two physical nets. Gateway G answers ARP requests on each network for hosts on the other network, giving its hardware address and then routing datagrams correctly when they arrive. In essence, G lies about IP-to-physical address bindings.

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