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(54) Title: AUTHENTICATION USING DHCP SERVICES IN MESH NETWORKS

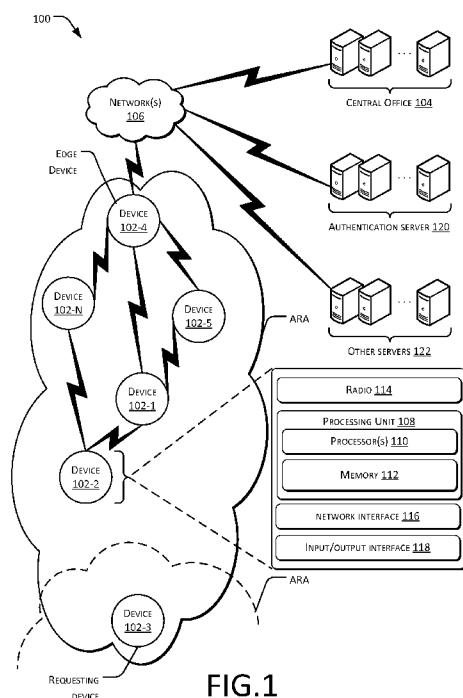


FIG.1

(57) Abstract: A new device is deployed to an area in which a network is provided. The new device may join the network using a single handshake via a neighboring device that is a member of the network and register with a network management system managing the network. If the network is overloaded or has limited bandwidth remaining, the network may refuse to admit the new device, or if the new device is isolated, may force some devices that are members of the network to leave or migrate from the network to allow the isolated device to join the network.



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