

ABSTRACT

We propose an address resolution protocol to maintain IP mobility when a PDA1 moves from one network to another.

A PDA1 at first dials into the Network Connection Equipment4 to establish a communication channel. When the link is up, the PDA sends the IP Address-IP 1 and the Telephone Number IDb to Network Connection Equipment4 to register its IP Address and the Telephone Number IDb in the LCP packet. The Network Connection Equipment4 extracts the relevant information from the LCP packet, searches the IP address in its Address Mapping Table (AMT) and upsets data entry if necessary.

If the PDA moves to another network or changes a handset, the new telephone Number ID is updated in the AMT accordingly. Therefore, Network Connection Equipment4 can deal with dynamic routing of IP packet exactly.

FIG. 1

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