DATA COMMUNICATION MINI PROJECT (Abstract)

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Topic- IP ADDRESS ASSIGNMENT IN A MOBILE AD HOC NETWORK

In traditional networks, hosts rely on centralized servers like DHCP for configuration, but this cannot be extended to MANETs because of their distributed and dynamic nature. Many schemes have been proposed to solve this problem. Some of these approaches try to extend the IPv6 stateless autoconfiguration mechanism to MANETs, some use flooding the entire network to come up with a unique IP address, and others distribute IP addresses among nodes (using binary split) so that each node can independently configure new nodes. Here, we do not do this, and we implement a scheme for allocation of IP addresses in MANETs, using binary split. A buddy system is used to ensure less overhead while assigning IP addresses.

Reference- http://www.utdallas.edu/~ravip/papers/milcom02.pdf