

Research on Ethernet MAN and dynamic IP allocation using DHCP

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Abstract: This topic aims to explore the necessity of Multi-Area Network (MAN) Ethernet in today's enterprise environments. The main objective is to build a dynamic IP address management system through the Dynamic Host Configuration Protocol (DHCP), addressing issues of network performance and scalability. Through a combination of theoretical research and experimentation, the topic is expected to identify optimal parameters for the IP allocation process and provide deployment guidance for enterprises. The expected outcome is a significant improvement in network performance and IP address management capability.

Keywords: Ethernet MAN, DHCP, Dynamic IP Management, Enterprise Network