Class B Domain Space Standards

Administration of UAlbany Class B Domain Address Space

Assignment of IP Addresses and (Device Registration Standards)

Allocation and maintenance of the University's Class B domain 169.226.0.0/16 shall be made pursuant to the following standards and guidelines:

There will be one central Domain Naming Service (DNS) for the entire University at Albany, maintained by ITS.

ITS may assign ranges of IP addresses (subnets) within 169.226.0.0/16 to organizational units of the University. Subnet owners agree to assign and manage addresses in compliance with these guidelines and any others that may be issued. Subnet owners agree to demonstrate and maintain the required technical expertise to manage their subnets.

Devices (servers, personal computers, laptops, hand-helds, etc) are connected to the network by assignment of an Internet Protocol (IP) address. Address assignment is made pursuant to registration of a device by an authorized member of the University community. Typically, the authorized member is an IT technical support provider (subnet manager) or an authorized UAlbany user. The University Network Registration, referred to henceforth as NetReg, is the system-of-record for device registration and IP address assignment.

Dynamic Host Configuration Protocol (DHCP) is the default method of address assignment, excluding those subnets that are entirely made up of servers (e.g. 1 and 63).

All devices connected to the network shall have a single media access control address (MAC address) per Ethernet card. Hubs, routers, switches and wireless access points not authorized by ITS are expressly forbidden.

Devices connecting to the University network must meet the following requirements:

- current level of operating system (OS) updates, patches and fixes
- be free of malware (viruses, trojans, worms, bots, spyware, etc.) that could cause harm to the network or other users
- current anti-virus program with up-to-date definition files

Review the Connecting Devices to the University Network Policy and related documents. Registering devices that do not meet these criteria is strictly forbidden.

Technical Coordinators (TC) may register devices on behalf of faculty, staff and students, provided the user's name is entered appropriately in NetReg. The registrant serves as the point of contact for any questions regarding network traffic originating from a device registered by them.

Server owners may statically assign IP addresses within the subnet (DHCP) range on their servers, provided there is such a notation in the NetReg comment field.

Static IP numbers within the DHCP range may be used to register desktop computers and printers.

Departmental firewalls and/or NAT devices may be installed with the assistance and approval of ITS; these devices must still be accounted for in NetReg. Configuration and maintenance of departmental firewalls is the responsibility of the department.

Devices connected to the University network are subject to periodic scanning for known vulnerabilities.

ITS reserves the right to suspend the network access of any device connected to the network that represents a security threat, impedes the functioning of the network as a community resource, or is non-compliant with regulatory or legal requirements. Such suspension shall include notification to the registered user.

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