



Operations Alert Bulletin

Limitations on Headend IP Addresses for Set-Tops in DOCSIS Mode

Background

Engineers at Cable Television Laboratories, Inc. (CableLabs®) have reserved the 192.168.100.1 IP address for diagnostic purposes for cable modems. Because CableLabs did not specify a subnet mask, Cisco chose 255.255.255.0, the Internet standard for a Class C IP address.

If a headend server is assigned an IP address in the 192.168.100.0/24 subnet, then neither the cable modem nor the set-top itself will be able to communicate with the headend server, resulting in possible service outages. Examples of headend servers include the Digital Network Control System (DNCS), the video-on-demand (VOD) server, the Dynamic Host Configuration Protocol (DHCP) server, and the Trivial File Transfer Protocol (TFTP) server.

Recommendation

System operators must avoid assigning an IP address in the 192.168.100.0/24 subnet to any headend server. Any headend servers that currently have an IP address in the 192.168.100.0/24 subnet must be assigned a new IP address. Furthermore, no set-top or cable modem can be assigned an IP address in the 192.168.100.0/24 subnet, either.

Note: Set-tops that operate in DAVIC mode are not affected by this limitation.

About This Bulletin

Audience

This document is intended for system operators and network administrators of Cisco's Digital Broadband Delivery System (DBDS) who support DOCSIS®-enabled set-tops and cable modems. Cisco engineers who help system operators troubleshoot and maintain their systems will also find this document useful.

Document Version

This is the second release of this document.

For More Information

If You Have Questions

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer.



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