



@server

iSeries

BOOTP

Version 5 Release 3





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Note

Before using this information and the product it supports, be sure to read the information in "Notices," on page 5.

Fourth Edition (August 2005)

| This edition applies to version 5, release 3, modification 0 of IBM Operating System/400 (product number 5722-SS1)
| and to all subsequent releases and modifications until otherwise indicated in new editions. This version does not
| run on all reduced instruction set computer (RISC) models nor does it run on CISC models.

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Contents

BOOTP	1
Print this topic.	1
Configuring the BOOTP server	1
Changing BOOTP attributes	2
Working with the BOOTP Table	2

Appendix. Notices	5
Trademarks.	6
Terms and conditions for downloading and printing publications	6

BOOTP

Bootstrap Protocol, or BOOTP, provides a dynamic method for associating workstations with servers. It also provides a dynamic method for assigning workstation Internet Protocol (IP) addresses and initial program load (IPL) sources.

BOOTP is a TCP/IP protocol. It allows a client to find its IP address and the name of a load file from a server on the network. A client uses BOOTP to find this information without intervention from the user of the client.

The BOOTP server listens on the well-known BOOTP server port 67, which Dynamic Host Configuration Protocol (DHCP) also uses. Because of this, BOOTP and DHCP cannot operate at the same time on the same system (DHCP is the preferred method for supporting BOOTP clients). When the server receives a client request, it looks up the IP address for the client and returns a reply to that client. This reply contains both the client's IP address and the name of the load file. The client then initiates a Trivial File Transfer Protocol (TFTP) request to the server for the load file.

Refer to the following topics for more information about working with BOOTP.

- **Configuring the BOOTP server**
- **Modifying BOOTP attributes**
- **Working with the BOOTP table**

You can work with BOOTP server properties through iSeries Navigator, the graphical user interface (GUI) for OS/400®.


Use Print this topic to print out the BOOTP articles.

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Configuring the BOOTP server

Use the Configure TCP/IP BOOTP (CFGTCPBP) command to configure the BOOTP server. The following are two different ways to get to this command prompt:

- Specify the CFGTCPBP command.
- Specify the Configure TCP/IP Applications (CFGTCPAPP) command from the command line and select option 4 (Configure BOOTP).

After you specify the command, the following display appears:

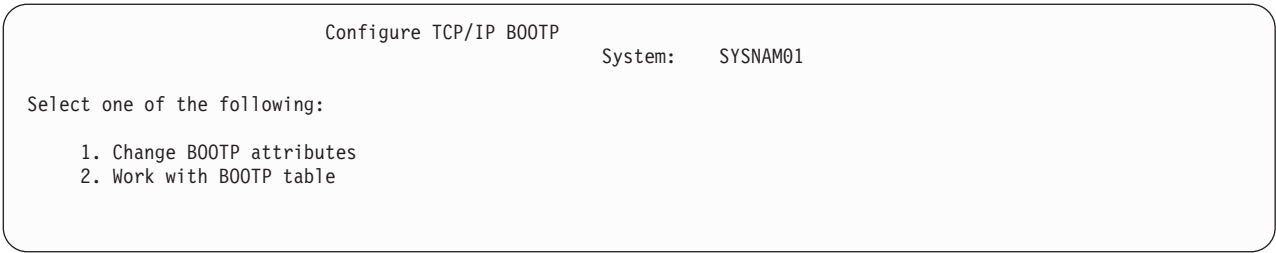


Figure 1. Configure TCP/IP BOOTP

The following OS/400 commands control the BOOTP server:

- The Change BOOTP Attributes (CHGBPA) command allows an administrator to set the configurable attributes for the BOOTP server.
- The Work with BOOTP Table (WRKBPTBL) command allows an administrator to work with the BOOTP table.

Changing BOOTP attributes

Select option 1 (Change BOOTP Attributes) on the Configure TCP/IP BOOTP display (or simply type CHGBPA and press F4) to view the Change BOOTP Attributes display. The AUTOSTART parameter controls if the BOOTP server is to start automatically when TCP/IP starts with the STRTCP command.

Note: You must have *IOSYSCFG special authority to make changes to the BOOTP attributes with the CHGBPA command.

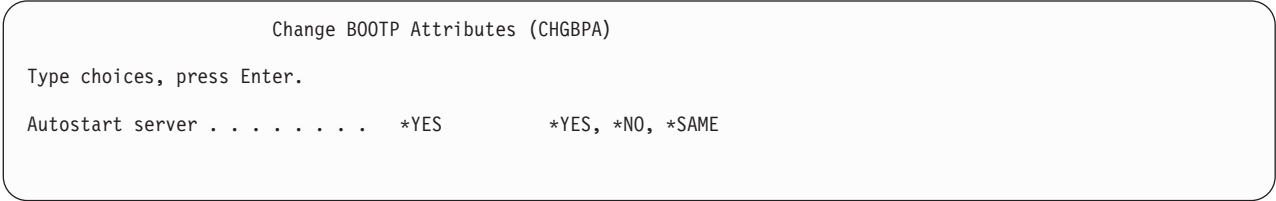


Figure 2. Change BOOTP Attributes (CHGBPA)

Working with the BOOTP Table

Select option 2 (Work with BOOTP Table) on the Configure TCP/IP BOOTP display (or simply specify WRKBPTBL) to view the Work with BOOTP Table display.

The administrator uses the Work with BOOTP Table display to add, change, remove, or display an entry in the BOOTP table.


```
Work with BOOTP Table          System:  SYSNAM01
Type options, press Enter.
  1=Add  2=Change  4=Remove  5=Display

Client
Host
Opt  Name                MAC          IP
      Name                Address      Address
act01.ibm.com            02.01.8C.06.34.98  9.130.42.1
```

Figure 3. Work with BOOTP Table (WRKBPTBL)

Appendix. Notices

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