

Topic: Changing the Static IP Address of a PXE Server
Component(s) Affected: PowerQuest Control Center
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OVERVIEW / ENVIRONMENT

During installation of PowerQuest Control Center, the PXE Server records the local machine's IP address. In the PXE boot process, this IP address is sent to the client machine so the client can download the appropriate boot program from the PXE Server. If the PXE Server's IP address changes, the client machine will receive erroneous information and will not be able to download the boot program. In such a case, the PXE Server's configuration must be updated with the correct IP address. This process must be repeated every time the IP address changes. Because of this, it is highly recommended that the PXE Server machine be assigned a static IP address.

DETAILED DESCRIPTION

In the event that a PXE Server's IP address must be changed, the PXE Server's configuration can be updated by using one of two methods:

- Using the PXE Configuration Utility
- Editing the Windows registry

Use one of the following procedures below to make these configuration changes

Editing The IP Address Using The PXE Configuration Utility:

1. From the Windows task bar, click **Start > Programs > ControlCenter ST for DeployCenter 5.0 > PXE Server**. The executable is `pxeconfig.exe`.
2. From the tree view, right-click on **proxyDHCP Server**, and then click **Configure proxyDHCP Server**.
3. Select the Client Options tab, and then click **Add to Bootserver Discovery List**. The **Bootserver Discovery List** box should contain only one entry. Under the **Type** column, the value 65533 should appear, followed by the correct IP address for PXE Server.
4. If the IP address is wrong:
 - Select **65533**.
 - Click **Delete Selected Entry**.
 - Click **Yes**.
5. Enter the correct bootserver type number and IP address.
 - In the **Bootserver Type** field, enter 65533.
 - In the **IP Address** field, enter the correct IP address of your PXE server.
 - Click **Add to Discovery List**.
6. Click **OK** twice to return to the PXE Configuration Utility window.
7. Click **File > Exit**.

Editing The IP Address Using the Windows Registry:

1. Run regedit from a command prompt and locate the following in the Registry:

```
HKEY_LOCAL_MACHINE\Software\PowerQuest\PXE\ProxyDhcp
```

2. In the right pane, double-click **Discovery_List**.
3. Change the value data (in Unicode) to 65533,1,<IP address>, followed by two null characters. Be sure you enter it as a valid Unicode multi-string. Because every digit in Unicode ends with a null byte, the last five bytes in the sting are null bytes. The contents of the **Value data** box should look similar to the following when you are done:

```
0000 36 00 35 00 35 00 33 00 6 . 5 . 5 . 3 .  
0008 33 00 2C 00 31 00 2C 00 3 . , . 1 . , .  
0010 32 00 31 00 36 00 00 00 2 . 1 . 6 . . .  
0018 31 00 30 00 00 00 32 00 1 . 0 . . . 2 .  
0020 30 00 33 00 00 00 31 00 0 . 3 . . . 1 .  
0028 37 00 35 00 00 00 00 00 7 . 5 . . . . .  
0030
```

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