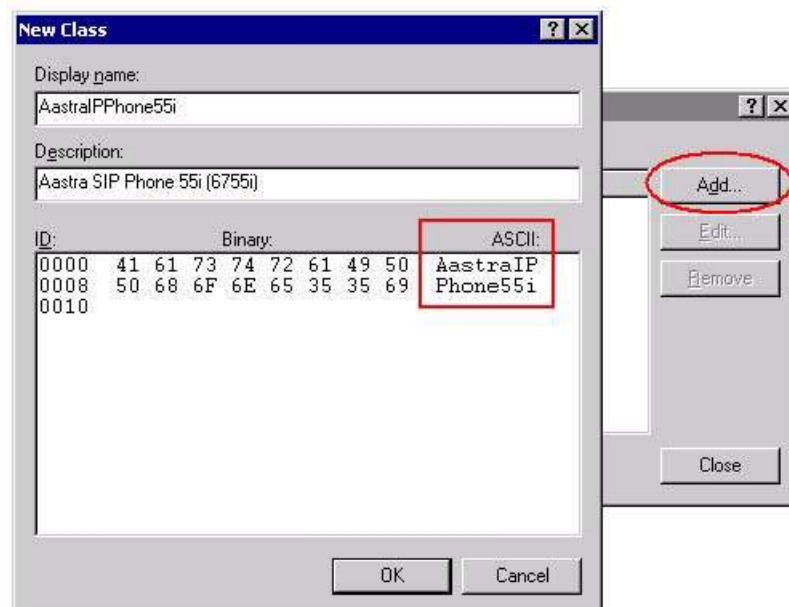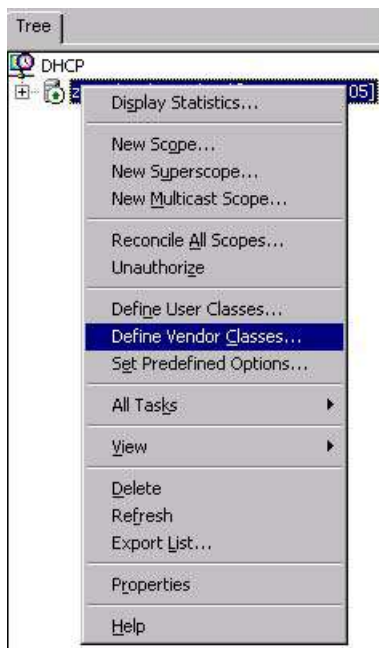# Example showing how to configure for 67xxi model phones DHCP for Options 60 and 43 in a Windows environment

Define Vendor Class

Select Define Vendor Class in the drop down list.

To enter the Vendor Class ID, click on the right side below **ASCII** in the large form field. Enter the Identifier Value from table 7 above. Repeat this step for each phone model that should be served by this DHCP server.

Set Predefined Options

Select Set Predefined Options to get the menu to enter the option 43 data.
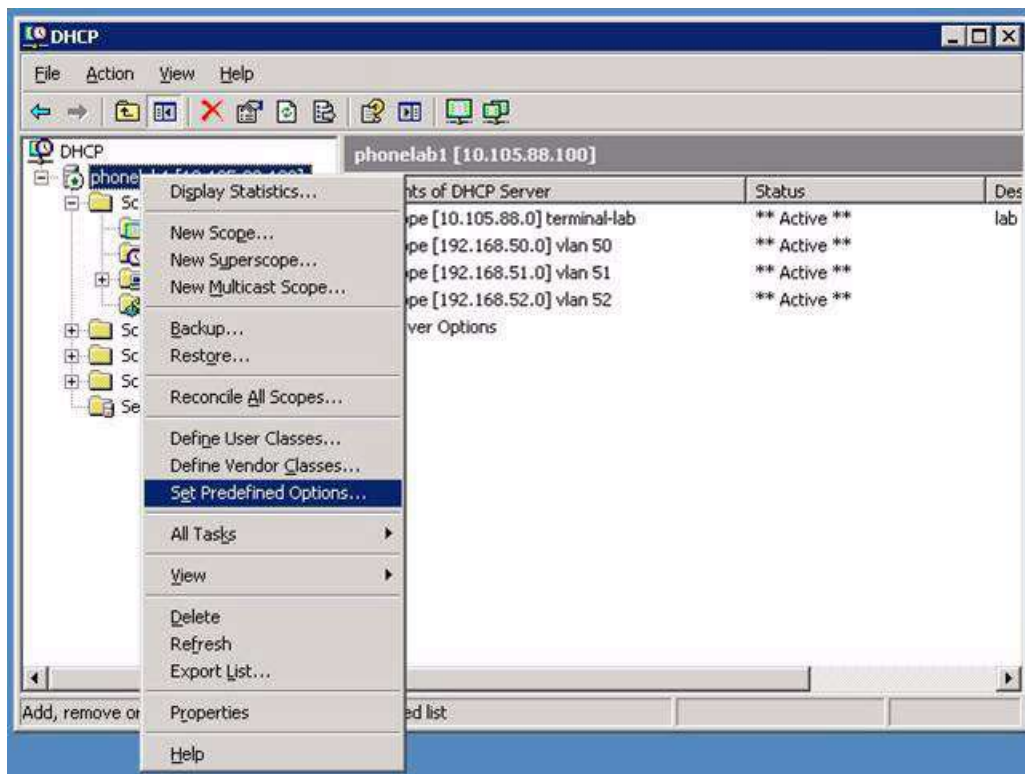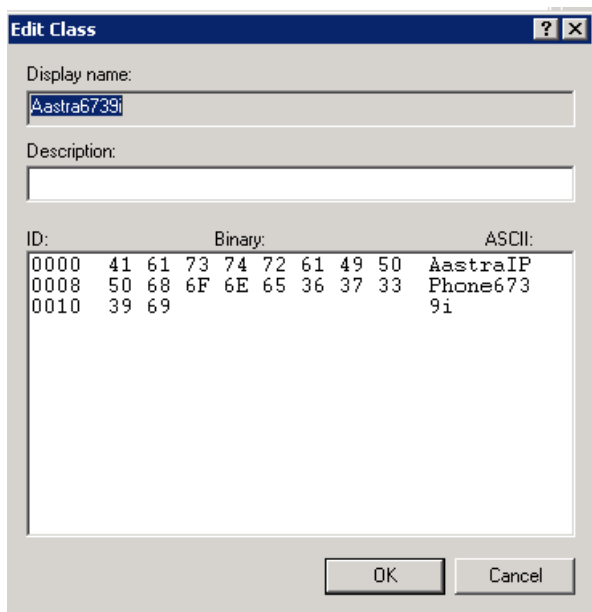

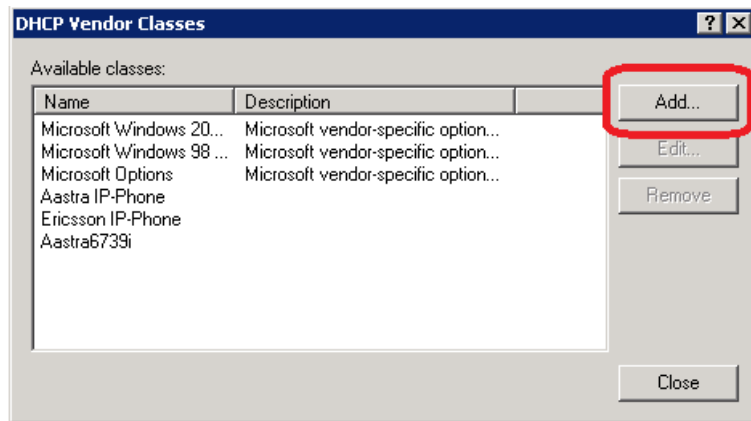Select appropriate option class from the drop down list and press the **Add** button.
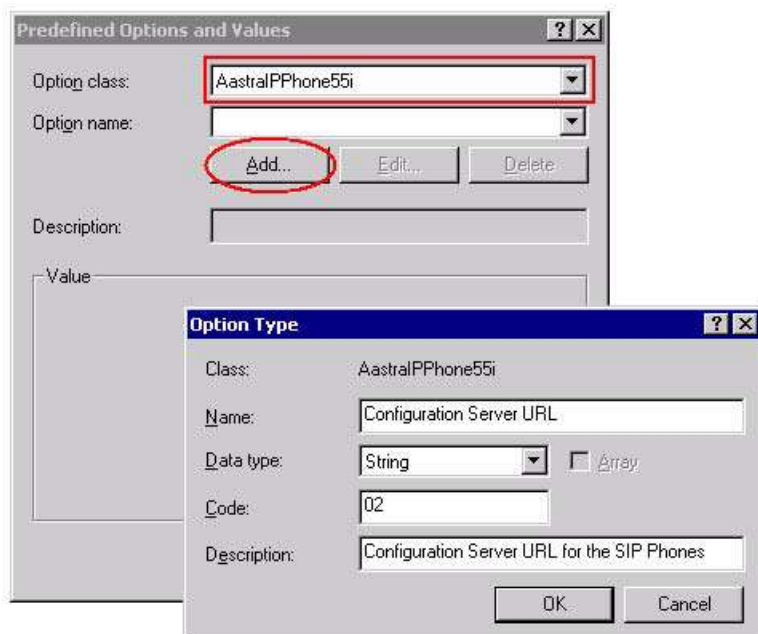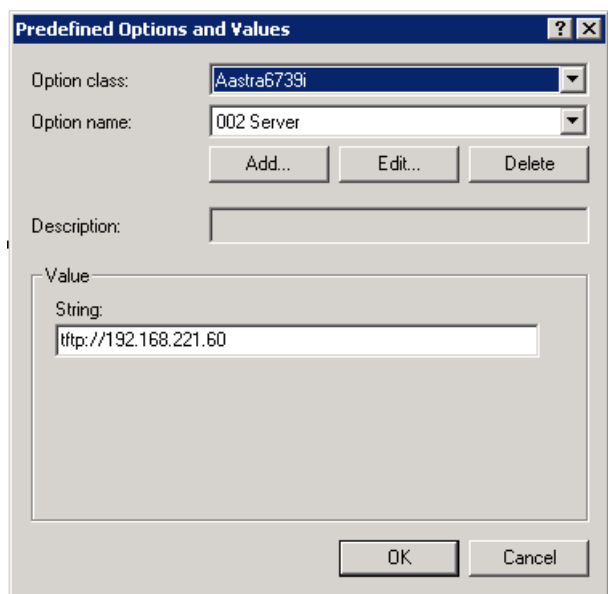

Example for Configuration server (Sub option 02).

The data in the Option Type menu has to be entered manually: Name: Configuration Server URL Data type: String Code: 02

Create a Vendor class (option 60) for each Aastra model in use. Refer to CPI or admin Guide for corresponding strings. Here it is an example for 6739i model:

DHCP Vendor Classes [?] [X]

Available classes:

Name	Description		Add...
Microsoft Windows 20...	Microsoft vendor-specific option...		Edit...
Microsoft Windows 98 ...	Microsoft vendor-specific option...		Remove
Microsoft Options	Microsoft vendor-specific option...		
Aastra IP-Phone			
Ericsson IP-Phone			
Aastra6739i			

Close

Edit Class [?] [X]

Display name:
Aastra6739i

Description:

```
ID:            Binary:                       ASCII:
0000   41 61 73 74 72 61 49 50    AastraIP
0008   50 68 6F 6E 65 36 37 33    Phone673
0010   39 69                      9i
```

OK   Cancel

Configure provisioning sever, if needed:

Predefined Options and Values [?] [X]

Option class: Aastra6739i

Option name: 002 Server

Add...   Edit...   Delete

Description:

Value
String:
tftp://192.168.221.60

OK   Cancel

"Add…" sub-option 08 with
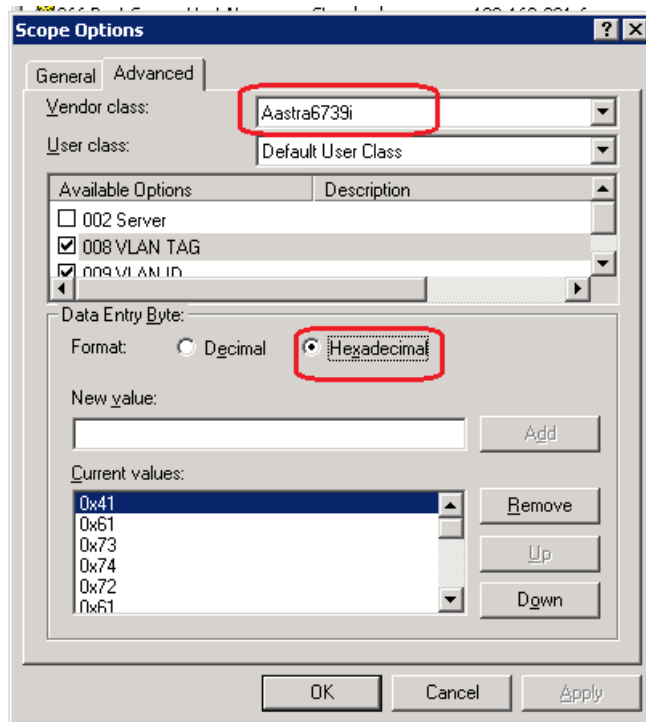
- Data type: "byte" and "array"

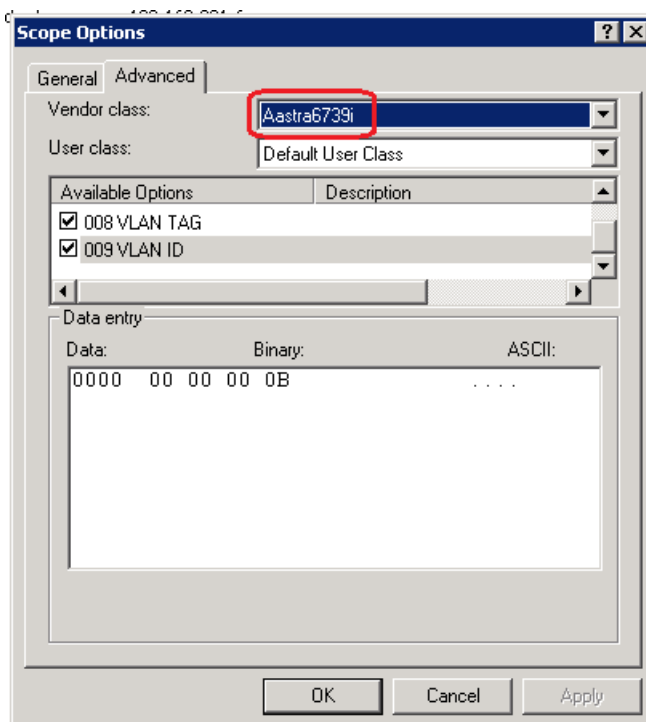"Add…" sub-option 09 with

- Data type: "binary"

Configure for sub-option 08:

- On the array enter 16 hexadecimal entries for "Aastra Telecom ". For example 0x41, 0x61, 0x73 . . . and so on:
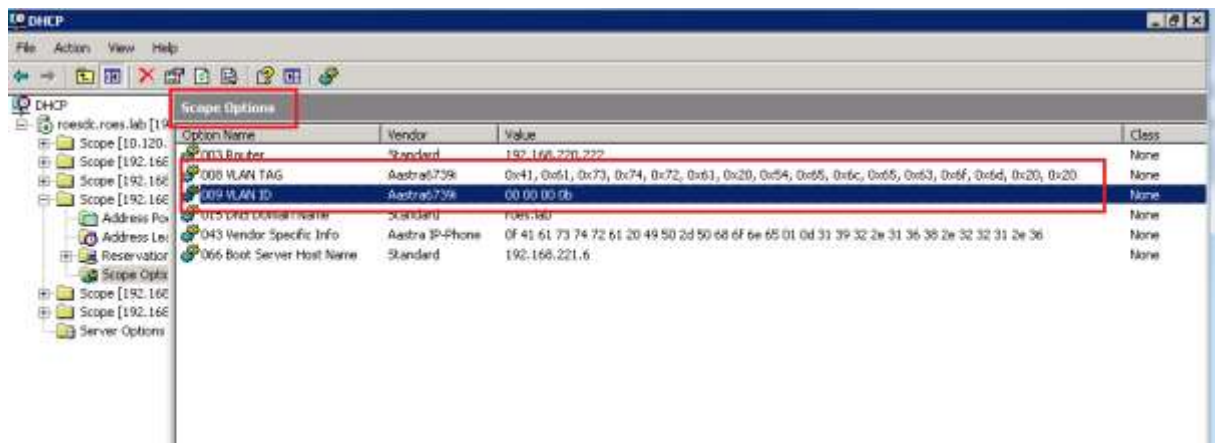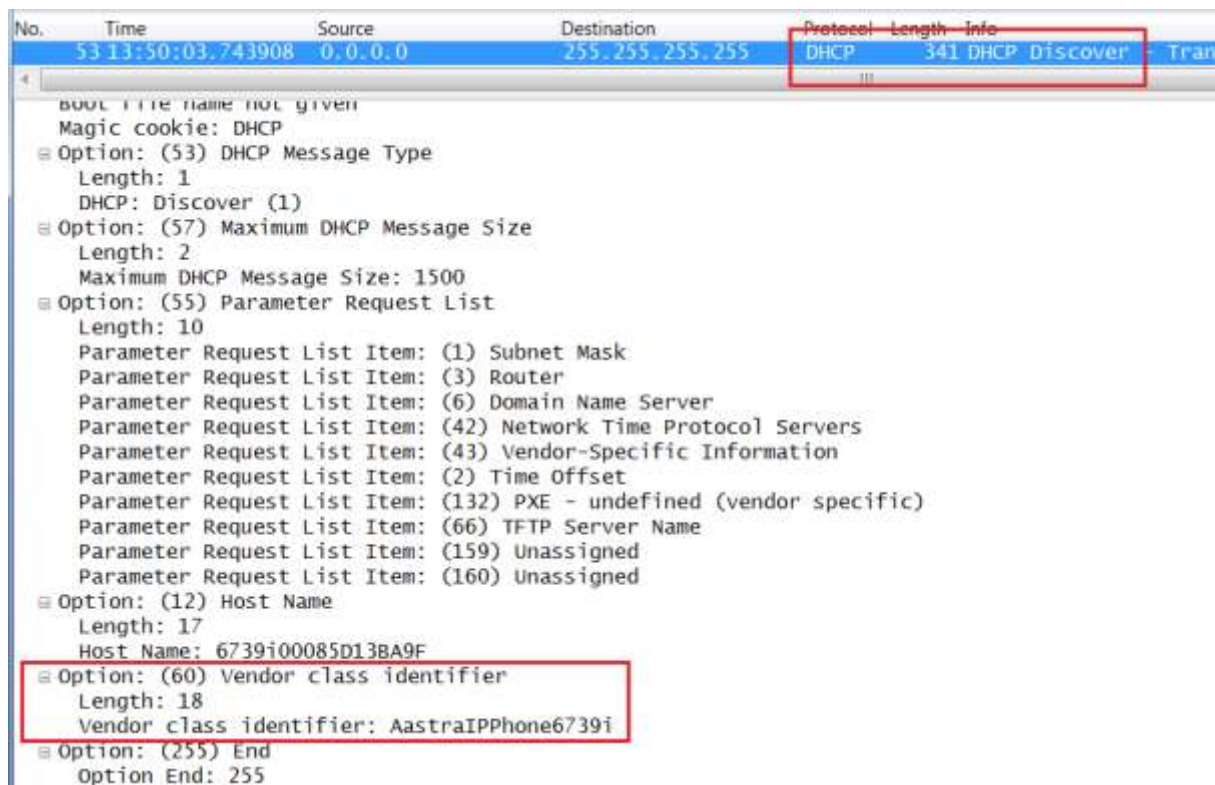
Configure sub-option 09:

- On the array enter the 4 entries to represent the four bytes of your VLAN ID in HEX. In the example below the VLAN ID is 11 (0x0b)

How it shall look like:

Here it is an example in a DHCP capture. The Option 43 length is 24 bytes (when only sub-options 8 & 9 are in use, no sub-option 2):

In DHCP OFFER – Option 43:

2b180810416173747472612054656c65636f6d20200904000000dc

0x2b – Option 43

0x18 – length 24 bytes

0x08 – Sub-option 8

- 0x10 – length 16 bytes
- 4161737472612054656c65636f6d2020 - string „Aastra Telecom „

0x09 – sub-option 9 (VLAN ID)

- 0x04 – length 4 bytes
- 000000DC – VLAN ID 220 (0xDC)


```
56 13:50:05.858926   192.168.220.222       192.168.220.101      DHCP      364 DHCP Offer
```

```
Length: 1
   DHCP: Offer (2)
Option: (1) Subnet Mask
   Length: 4
   Subnet Mask: 255.255.255.0 (255.255.255.0)
Option: (58) Renewal Time Value
   Length: 4
   Renewal Time Value: (345600s) 4 days
Option: (59) Rebinding Time Value
   Length: 4
   Rebinding Time Value: (604800s) 7 days
Option: (51) IP Address Lease Time
   Length: 4
   IP Address Lease Time: (691200s) 8 days
Option: (54) DHCP Server Identifier
   Length: 4
   DHCP Server Identifier: 192.168.222.5 (192.168.222.5)
Option: (3) Router
   Length: 4
   Router: 192.168.220.222 (192.168.220.222)
Option: (66) TFTP Server Name
   Length: 14
   TFTP Server Name: 192.168.221.6
Option: (43) Vendor-Specific Information
   Length: 24
Option: (255) End
   Option End: 255
```

```
00c0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
00d0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
00e0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
00f0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
0100  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........ ........
0110  00 00 00 00 00 00 63 82  53 63 35 01 02 01 04 ff   ......c. Sc5.....
0120  ff ff 00 3a 04 00 05 46  00 3b 04 00 09 3a 80 33   ...:...F .;...:.3
0130  04 00 0a 8c 00 36 04 c0  a8 de 05 03 04 c0 a8 dc   .....6.. ........
0140  de 42 0e 31 39 32 2e 31  36 38 2e 32 32 31 2e 36   .B.192.1 68.221.6
0150  00 2b 18 08 10 41 61 73  74 72 61 20 54 65 6c 65   .+...Aas tra Tele
0160  63 6f 6d 20 20 09 04 00  00 00 dc ff               com  ... ....
```