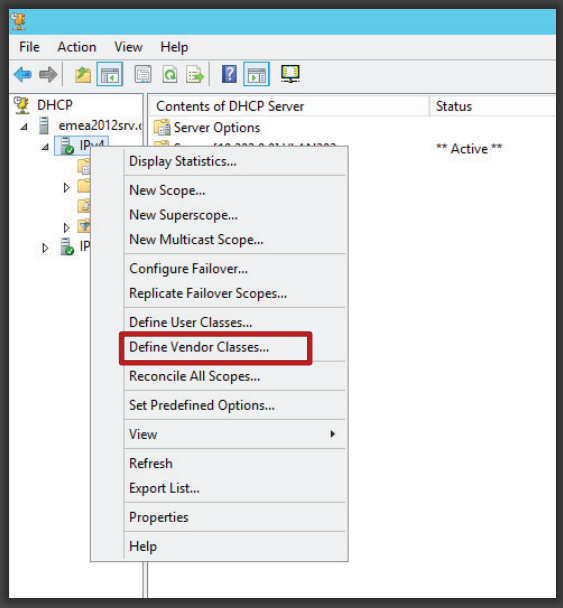
3.7.2.3 Microsoft Windows DHCP Server

Microsoft Windows Server 2003 / 2008 / 2012 provide integrated DHCP services which may be deployed centrally in the data center or locally at each store. The Microsoft DHCP server supports the ability to assign option 191 values directly to each DHCP scope as well as globally across multiple scopes using the Vendor Class Identifier. When a Microsoft based DHCP server is utilized, the option 191 value must be assigned directly to each DHCP scope providing DHCP services to the Access Points Native VLAN.

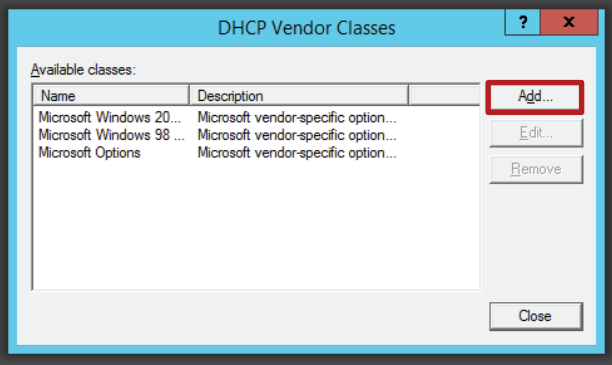
Note – Please reference the relevant Microsoft documentation for assigning DHCP options globally across multiple scopes as this procedure varies by Windows Server version.

Use the following procedure to create a Vendor Class Identifier and Predefined options 191 values on a Microsoft DHCP server that will assign DHCP option 191 and values from a specific DHCP scope:

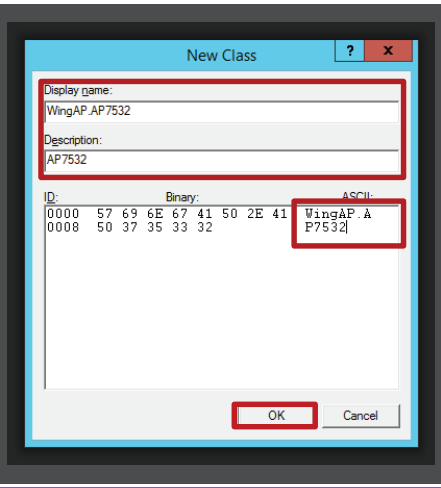
1 **In the DHCP snap-in, right click on the *DHCP Server* icon then select *Define Vendor Classes*:**



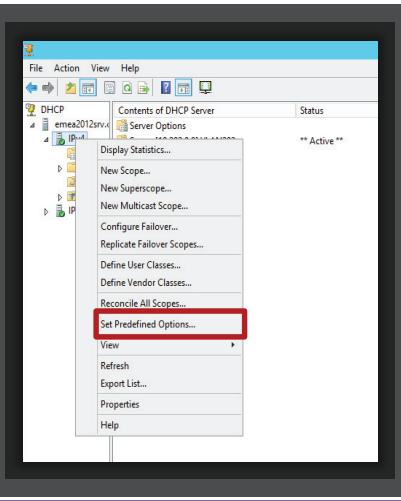
2 **Click *Add*:**



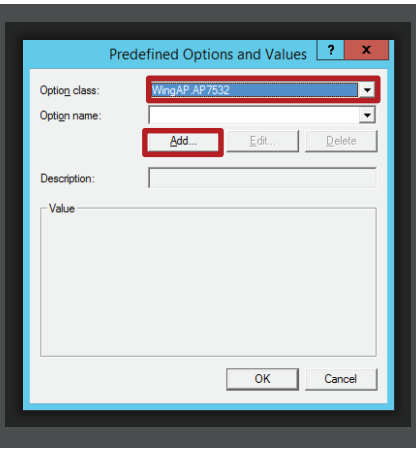
3	Enter the *Display Name* and *Description*. In the *ASCII* field type the *Vendor Class Identifier* for the Access Point model then click *OK*. Note in this example the Vendor Class for the AP 7532 Access Points *WingAP.AP7532* is defined:



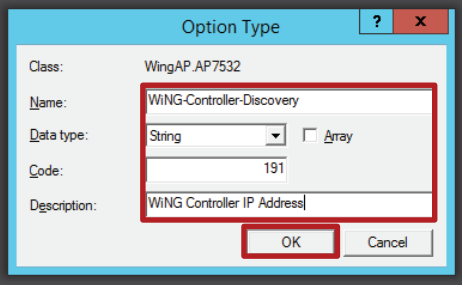
4	In the DHCP snap-in, right click on the *DHCP Server* icon then select *Set Predefined Options*:



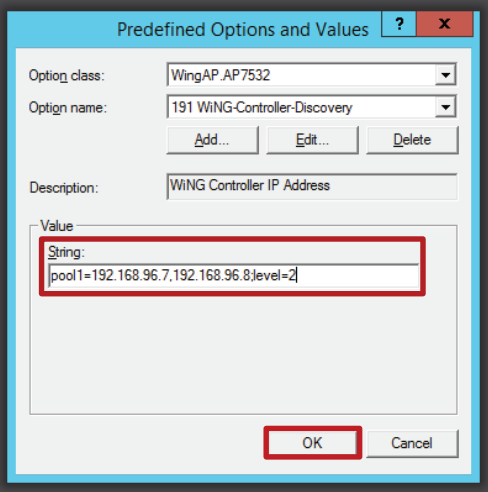
5	Select the *Option class* name created earlier then click *Add*:



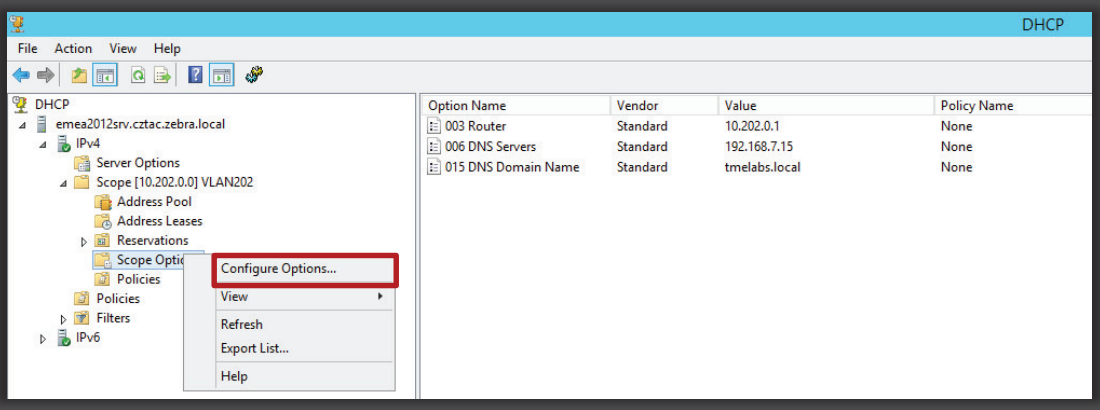
6	Enter a *Name* and *Description* for the option then set the *Data type* to *String*. In the *Code* field enter *191* then click *OK*:



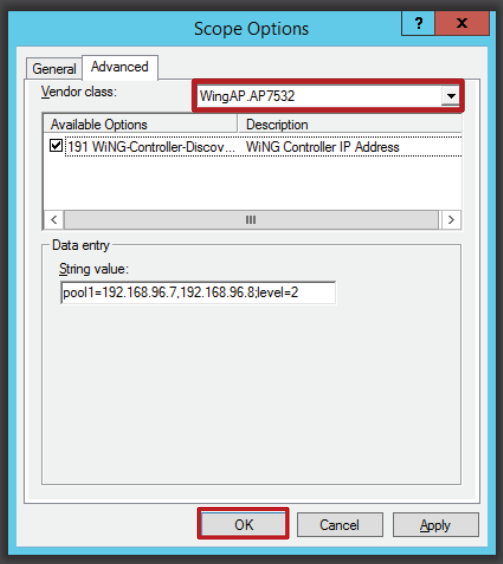
7	In the *String* field enter the value to provide to the WiNG 5 Access Points. In this example AP 7532 Access Points will be provided the Wireless Controller IP addresses *192.168.96.7* and *192.168.96.8* and will establish *Level 2* IP based MINT links to the Wireless Controllers. Click *OK*:



8	In the DHCP snap-in, select a DHCP scope then right click on *Scope Options* then select *Configure Options*:



9	**Select the *Advanced* tab then under *Vendor class* select the Vendor Class name to assign to the DHCP scope. Click *OK*:**



10	**The Vendor Class and Options have now been assigned to a DHCP scope supporting the Access Points Native VLAN at one remote site:**