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:



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 3 7532 Access Points WingAP.AP7532 is defined:

		New Class 2 Display mame: WingAP AP7532 Description: AP7532 Description: AP7532 D0000 57 69 67 41 50 2E 41 WingAP.A D008 50 37 35 33 32 0K Cancel
	In the DHCP snap-in, right c <i>Options</i> :	ick on the <i>DHCP Server</i> icon then select <i>Set Predefined</i>
_		File Action View Help File Action View Help Image: Second Sec

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

1000 € 1000 € 1000 € 1000 €

New Scope... New Superscope... New Multicast Scope... Configure Failover... Replicate Failover Scopes. Define User Classes... Define Vendor Classes... Reconcile All Scopes... Set Predefined Options.. Refresh Export List... Properties Help

4

	Predefined Options and Values	×
Option_clas Option nam	rss: WingAP AP7532 me: Add Edit Delete	
Description	n:	
	OK Cancel	

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

6

	Option Type ? X	
Class: <u>N</u> ame: Data type: <u>C</u> ode: D <u>e</u> scription:	WingAP.AP7532 WiNG-Controller-Discovery String Array 191 WiNG Controller IP Address	
	OK Cancel	
In the Otvine field enter the velue	to provide to the WiNC E Access D	sinte la this s

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*:

	Pred Option_class: Option_name:	defined Options and Values ? × WingAP.AP7532 • 191 WiNG-Controller-Discovery • Add Edit
	Description: Value String: pool1=192.168.9	WING Controller IP Address 96.7,192.168.96.8;jevel=2

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



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

	Scope Option	ns ? X		
General	Advanced			
<u>V</u> endor o	lass: WingAP.AP7532	•		
Availab	le Options Description	n		
I III III III III III III III III III	WiNG-Controller-Discov WiNG Co	ntroller IP Address		
		>		
- Data e	ntry			
String	value:			
pool				
	ОК	Cancel <u>A</u> pply		
10 The Vendor Class and Options	have now been	assigned to a E	OHCP scope su	pporting the
Access Points Native VLAN at	one remote site:			
File Anton Mary Links				DHCP
	Ontion Name	/ondor Value		Policy Name
∠ Enter	E 003 Router	Standard 10.202.0.1		None
⊿ 🐌 IPv4	E 006 DNS Servers S	Standard 192.168.7.15		None
Server Options	E 015 DNS Domain Name	Standard tmelabs.local	ac 7 400 400 00 01 0 0	None
Address Pool	191 WiNG-Controller-Disc	WingAP.AP7532 pool1=192.168	.96.7,192.168.96.8;level=2	None
Address Leases				
Reservations Scope Options				
Bolizion				
Policies				
Policies ▷ 20 Folicies ▷ 20 Filters ▷ 4. IP/06				