



Microsoft DHCP As Built Report

Zen Pr Solutions

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Table of Contents

1 PHARMAX.LOCAL.....	5
1.1 DHCP Servers in Domain	5
1.1.1 Service Database.....	5
1.1.2 Dynamic DNS credentials	5
1.2 IPv4 Information.....	5
1.2.1 Service Statistics	5
1.2.2 Filter Status.....	6
1.2.3 CAYEY-DC-01V	6
1.2.3.1 Scopes	6
1.2.3.2 Scope Statistics.....	6
1.2.3.3 Scope Failover	6
1.2.3.4 NIC Binding	7
1.2.3.5 Client Classes.....	7
1.2.3.6 Option Definitions	8
1.2.3.7 Global Server Options	10
1.2.3.7.1 Global DNS Setting	10
1.2.3.8 Scope Configuration.....	10
1.2.3.8.1 10.0.0.0.....	10
1.2.3.8.2 10.10.32.0.....	11
1.2.3.8.3 10.10.33.0.....	12
1.2.4 SERVER-DC-01V	13
1.2.4.1 Scopes	13
1.2.4.2 Scope Statistics.....	13
1.2.4.3 Scope Failover	14
1.2.4.4 NIC Binding	15
1.2.4.5 Policies	15
1.2.4.6 Client Classes.....	15
1.2.4.7 Option Definitions	16
1.2.4.8 Global Server Options	18
1.2.4.8.1 Global DNS Setting	18
1.2.4.9 Scope Configuration.....	18
1.2.4.9.1 10.10.32.0.....	19
1.2.4.9.2 10.10.33.0.....	20
1.2.4.9.3 10.10.34.0.....	21

Microsoft DHCP As Built Report - v1.0

1.2.4.9.4 10.10.35.0.....	21
1.2.4.9.5 192.168.2.0	22
1.2.4.9.6 192.168.4.0	23
1.2.4.9.7 192.168.6.0	24
1.2.4.9.8 192.168.7.0	25
1.2.4.9.9 192.168.10.0.....	27
1.2.4.9.10 192.168.12.0	28
1.3 IPv6 Information.....	29
1.3.1 Service Statistics.....	30
2 ACAD.PHARMAX.LOCAL	30
2.1 DHCP Servers in Domain	30
2.1.1 Service Database.....	30
2.1.2 Dynamic DNS credentials.....	30
2.2 IPv4 Information.....	31
2.2.1 Service Statistics.....	31
2.2.2 Filter Status.....	31
2.2.3 ACAD-DHCP-01V	31
2.2.3.1 Scopes	31
2.2.3.2 Scope Statistics.....	31
2.2.3.3 NIC Binding	31
2.2.3.4 Client Classes.....	32
2.2.3.5 Option Definitions.....	32
2.2.3.6 Scope Configuration.....	34
2.2.3.6.1 172.23.8.0.....	34
2.2.4 ACAD-DC-01V	35
2.2.4.1 Scopes	35
2.2.4.2 Scope Statistics.....	35
2.2.4.3 NIC Binding	35
2.2.4.4 Client Classes.....	35
2.2.4.5 Option Definitions.....	36
2.2.4.6 Global Server Options	38
2.2.4.6.1 Global DNS Setting	38
2.2.4.7 Scope Configuration.....	38
2.2.4.7.1 172.23.4.0.....	39
2.2.4.7.2 172.23.5.0.....	39

Microsoft DHCP As Built Report - v1.0

2.3 IPv6 Information.....	40
2.3.1 Service Statistics.....	40
2.3.2 ACADE-DC-01V	40
2.3.2.1 Scopes.....	40
2.3.2.2 Scope Statistics.....	41
2.3.2.3 Client Classes.....	41
2.3.2.4 Option Definitions.....	41
2.3.2.5 Global Server Options.....	41
2.3.2.5.1 Global DNS Settings.....	42
2.3.2.6 Scope Configuration.....	42
2.3.2.6.1 fd99:2222::.....	42
2.3.2.6.2 fd99:9971::.....	42
3 UIA.LOCAL.....	43
3.1 DHCP Servers in Domain	43
3.1.1 Service Database.....	43
3.1.2 Dynamic DNS credentials	43
3.2 IPv4 Information.....	43
3.2.1 Service Statistics.....	43
3.2.2 Filter Status.....	43
3.2.3 DC-UIA-01V	44
3.2.3.1 Scopes.....	44
3.2.3.2 Scope Statistics.....	44
3.2.3.3 NIC Binding	44
3.2.3.4 Client Classes.....	44
3.2.3.5 Option Definitions.....	45
3.2.3.6 Scope Configuration.....	47
3.2.3.6.1 172.23.7.0.....	47
3.3 IPv6 Information.....	47
3.3.1 Service Statistics.....	48

1 PHARMAX.LOCAL

The following section provides a summary of the Dynamic Host Configuration Protocol.

1.1 DHCP Servers in Domain

The following table summarises the DHCP servers information within PHARMAX.LOCAL.

DC Name	IP Address	Domain Name	Domain Joined	Authorized	Conflict Detection Attempts
cayey-dc-01v	10.10.33.1	pharmax.local	Yes	Yes	0
server-dc-01v	192.168.5.1	pharmax.local	Yes	Yes	1

Table 1 - DHCP Servers in Domain - PHARMAX.LOCAL

1.1.1 Service Database

DC Name	File Path	Backup Path	Backup Interval	Logging Enabled
cayey-dc-01v	C:\Windows\system32\dhcp\dhcp.mdb	C:\Windows\system32\dhcp\backup	60 min	Yes
server-dc-01v	C:\Windows\system32\dhcp\dhcp.mdb	C:\Windows\system32\dhcp\backup	60 min	Yes

Table 2 - DHCP Servers Database - PHARMAX.LOCAL

1.1.2 Dynamic DNS credentials

DC Name	User Name	Domain Name
cayey-dc-01v	--	--
server-dc-01v	administrator	PHARMAX.LOCAL

Table 3 - DHCP Servers Dynamic DNS Credentials - PHARMAX.LOCAL

1.2 IPv4 Information

The following sections detail the configuration of the ipv4 scopes within domain pharmax.local.

1.2.1 Service Statistics

DC Name	Total Scopes	Total Addresses	Addresses In Use	Addresses Available	Percentage In Use	Percentage Available
cayey-dc-01v	3	704	19	685	3	97
server-dc-01v	10	1870	124	1746	7	93

Table 4 - DHCP Server Statistics - PHARMAX.LOCAL

1.2.2 Filter Status

DC Name	Allow	Deny
cayey-dc-01v	No	No
server-dc-01v	No	Yes

Table 5 - Filter Status - PHARMAX.LOCAL

1.2.3 CAYEY-DC-01V

1.2.3.1 Scopes

The following sections summarizes the ipv4 scope configuration within CAYEY-DC-01V.

Scope Id	Scope Name	Scope Range	Lease Duration	State
10.0.0.0/24	SCCM	10.0.0.1 - 10.0.0.254	8.00:00:00	Active
10.10.32.0/24	ESXi-vMotion-DR	10.10.32.10 - 10.10.32.250	8.00:00:00	Active
10.10.33.0/24	ESX-VM-NETWORK-DR	10.10.33.40 - 10.10.33.253	100.00:00:00	Active

Table 6 - Scopes - CAYEY-DC-01V

1.2.3.2 Scope Statistics

Scope Id	Free IP	In Use IP	Percentage In Use	Reserved IP
10.0.0.0	249	0	0	0
10.10.32.0	241	0	0	0
10.10.33.0	195	19	9	3

Table 7 - IPv4 Scope Statistics - CAYEY-DC-01V

1.2.3.3 Scope Failover

10.10.32.0

DHCP Server	cayey-dc-01v.pharmax.local
Partner DHCP Server	server-dc-01v.pharmax.local
Mode	LoadBalance
LoadBalance Percent	50
Server Role	--
Reserve Percent	0
Max Client Lead Time	01:00:00
State Switch Interval	--

Microsoft DHCP As Built Report - v1.0

Scope Ids	10.10.32.0
State	Normal
Auto State Transition	No
Authetication Enable	No

Table 8 - IPv4 Scope Failover Cofiguration - CAYEY-DC-01V

Health Check:

Corrective Action: Ensure Dhcp servers require authentication (a shared secret) in order to secure communications between failover partners.

10.10.33.0

DHCP Server	cayey-dc-01v.pharmax.local
Partner DHCP Server	server-dc-01v.pharmax.local
Mode	LoadBalance
LoadBalance Percent	50
Server Role	--
Reserve Percent	0
Max Client Lead Time	01:00:00
State Switch Interval	--
Scope Ids	10.10.33.0
State	Normal
Auto State Transition	No
Authetication Enable	Yes

Table 9 - IPv4 Scope Failover Cofiguration - CAYEY-DC-01V

1.2.3.4 NIC Binding

Interface Alias	IP Address	Subnet Mask	State
Ethernet0	10.10.33.1	255.255.255.0	Enabled

Table 10 - NIC Biding - CAYEY-DC-01V

1.2.3.5 Client Classes

Name	Type	Data	Ascii Data	Description
Default BOOTP Class	User	0x424f4f54502e4d6963726f736f6674	BOOTP.Microsoft	User class for BOOTP Clients
Default Routing and Remote Access Class	User	0x525241532e4d6963726f736f6674	RRAS.Microsoft	User class for remote access clients
Microsoft Options	Vendor	0x4d534654	MSFT	Microsoft vendor-specific options

Microsoft DHCP As Built Report - v1.0

Name	Type	Data	Ascii Data	Description
				applicable to all Windows Clients
Microsoft Windows 2000 Options	Vendor	0x4d53465420352e30	MSFT 5.0	Microsoft vendor-specific options for Windows 2000 and above Clients
Microsoft Windows 98 Options	Vendor	0x4d534654203938	MSFT 98	Microsoft vendor-specific options for Windows 98 Clients

Table 11 - Client Classes - CAYEY-DC-01V

1.2.3.6 Option Definitions

Name	Option Id	Type	Vendor Class	Multi Valued
Subnet Mask	1	IPv4Address	--	No
Time Offset	2	DWord	--	No
Router	3	IPv4Address	--	Yes
Time Server	4	IPv4Address	--	Yes
Name Servers	5	IPv4Address	--	Yes
DNS Servers	6	IPv4Address	--	Yes
Log Servers	7	IPv4Address	--	Yes
Cookie Servers	8	IPv4Address	--	Yes
LPR Servers	9	IPv4Address	--	Yes
Impress Servers	10	IPv4Address	--	Yes
Resource Location Servers	11	IPv4Address	--	Yes
Host Name	12	String	--	No
Boot File Size	13	Word	--	No
Merit Dump File	14	String	--	No
DNS Domain Name	15	String	--	No
Swap Server	16	IPv4Address	--	No
Root Path	17	String	--	No
Extensions Path	18	String	--	No
IP Layer Forwarding	19	Byte	--	No
Nonlocal Source Routing	20	Byte	--	No
Policy Filter Masks	21	IPv4Address	--	Yes
Max DG Reassembly Size	22	Word	--	No
Default IP Time-to-live	23	Byte	--	No
Path MTU Aging Timeout	24	DWord	--	No
Path MTU Plateau Table	25	Word	--	Yes
MTU Option	26	Word	--	No

Microsoft DHCP As Built Report - v1.0

Name	Option Id	Type	Vendor Class	Multi Valued
All subnets are local	27	Byte	--	No
Broadcast Address	28	IPv4Address	--	No
Perform Mask Discovery	29	Byte	--	No
Mask Supplier Option	30	Byte	--	No
Perform Router Discovery	31	Byte	--	No
Router Solicitation Address	32	IPv4Address	--	No
Static Route Option	33	IPv4Address	--	Yes
Trailer Encapsulation	34	Byte	--	No
ARP Cache Timeout	35	DWord	--	No
Ethernet Encapsulation	36	Byte	--	No
TCP Default Time-to-live	37	Byte	--	No
Keepalive Interval	38	DWord	--	No
Keepalive Garbage	39	Byte	--	No
NIS Domain Name	40	String	--	No
NIS Servers	41	IPv4Address	--	Yes
NTP Servers	42	IPv4Address	--	Yes
Vendor Specific Info	43	BinaryData	--	No
WINS/NBNS Servers	44	IPv4Address	--	Yes
NetBIOS over TCP/IP NBDD	45	IPv4Address	--	Yes
WINS/NBT Node Type	46	Byte	--	No
NetBIOS Scope ID	47	String	--	No
X Window System Font	48	IPv4Address	--	Yes
X Window System Display	49	IPv4Address	--	Yes
Lease	51	DWord	--	No
Renewal (T1) Time Value	58	DWord	--	No
Rebinding (T2) Time Value	59	DWord	--	No
NIS+ Domain Name	64	String	--	No
NIS+ Servers	65	IPv4Address	--	Yes
Boot Server Host Name	66	String	--	No
Bootfile Name	67	String	--	No
Mobile IP Home Agents	68	IPv4Address	--	Yes
Simple Mail Transport Protocol (SMTP) Servers	69	IPv4Address	--	Yes
Post Office Protocol (POP3) Servers	70	IPv4Address	--	Yes
Network News Transport Protocol (NNTP) Servers	71	IPv4Address	--	Yes
World Wide Web (WWW) Servers	72	IPv4Address	--	Yes
Finger Servers	73	IPv4Address	--	Yes

Name	Option Id	Type	Vendor Class	Multi Valued
Internet Relay Chat (IRC) Servers	74	IPv4Address	--	Yes
StreetTalk Servers	75	IPv4Address	--	Yes
StreetTalk Directory Assistance (STDA) Servers	76	IPv4Address	--	Yes
Classless Static Routes	121	BinaryData	--	No

Table 12 - Option Definitions - CAYEY-DC-01V

1.2.3.7 Global Server Options

Name	Option Id	Value	Policy Name
Time Offset	2	0	--
Time Server	4	10.10.33.1	--
Name Servers	5	10.10.33.1	--
DNS Servers	6	10.10.33.1 192.168.5.1	--

Table 13 - Scopes Server Options - CAYEY-DC-01V

1.2.3.7.1 Global DNS Setting

The following table summarises the dhcp server ipv4 global dns setting.

Dynamic Updates	OnClientRequest
Dns Suffix	--
Name Protection	No
Update Dns RR For Older Clients	No
Disable Dns Ptr RR Update	No
Delete Dns RR On Lease Expiry	Yes

Table 14 - Global DNS Setting - CAYEY-DC-01V

Health Check:

Best Practice: 'Always dynamically update dns records' should be configured if secure dynamic DNS update is enabled and the domain controller is on the same host as the DHCP server.

1.2.3.8 Scope Configuration

The following sections detail the configuration of the ipv4 per scope configuration.

1.2.3.8.1 10.0.0.0

Properties

Microsoft DHCP As Built Report - v1.0

Name	SCCM
Type	Dhcp
Lease Duration	8.00:00:00
Start Range	10.0.0.1
End Range	10.0.0.254
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	--

Table 15 - Scopes Properties - 10.0.0.0

Exclusion

Start Range	End Range
10.0.0.20	10.0.0.24

Table 16 - Scopes Exclusion - 10.0.0.0

Options

Name	Option Id	Value	Policy Name
Router	3	10.0.0.254	--
DNS Servers	6	10.10.33.1 192.168.5.1 10.10.33.1	--
DNS Domain Name	15	pharmax.local	--
Lease	51	691200	--

Table 17 - Scopes Options - 10.0.0.0

1.2.3.8.2 10.10.32.0

Properties

Name	ESXi-vMotion-DR
Type	Dhcp
Lease Duration	8.00:00:00
Start Range	10.10.32.10
End Range	10.10.32.250
Subnet Mask	255.255.255.0

Microsoft DHCP As Built Report - v1.0

Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	VLAN32

Table 18 - Scopes Properties - 10.10.32.0

Options

Name	Option Id	Value	Policy Name
Router	3	10.10.32.254	--
DNS Domain Name	15	pharmax.local	--
Lease	51	691200	--

Table 19 - Scopes Options - 10.10.32.0

1.2.3.8.3 10.10.33.0

Properties

Name	ESX-VM-NETWORK-DR
Type	Dhcp
Lease Duration	100.00:00:00
Start Range	10.10.33.40
End Range	10.10.33.253
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	VLAN33

Table 20 - Scopes Properties - 10.10.33.0

Reservations

IP Address	Client Id	Name	Type
10.10.33.10	0a-21-0a-0a	BAD_ADDRESS	Dhcp
10.10.33.11	0b-21-0a-0a	BAD_ADDRESS	Dhcp
10.10.33.42	00-50-56-b0-e4-b1	disaster-01a.pharmax.local	Dhcp

Microsoft DHCP As Built Report - v1.0

Table 21 - Scopes Reservation - 10.10.33.0

Options

Name	Option Id	Value	Policy Name
Router	3	10.10.33.254	--
Lease	51	8640000	--
Boot Server Host Name	66	192.168.5.2	--
Bootfile Name	67	snponly64.efi.vmw-hardwired	--
	81	23	--

Table 22 - Scopes Options - 10.10.33.0

1.2.4 SERVER-DC-01V

1.2.4.1 Scopes

The following sections summarizes the ipv4 scope configuration within SERVER-DC-01V.

Scope Id	Scope Name	Scope Range	Lease Duration	State
10.10.32.0/24	ESXi-vMotion-DR	10.10.32.10 - 10.10.32.250	8.00:00:00	Inactive
10.10.33.0/24	ESX-VM-NETWORK-DR	10.10.33.40 - 10.10.33.253	100.00:00:00	Active
10.10.34.0/24	ESXi-ISCSI-BLOCK-A-DR	10.10.34.10 - 10.10.34.253	8.00:00:00	Active
10.10.35.0/24	ESXi-ISCSI-BLOCK-B-DR	10.10.35.10 - 10.10.35.253	8.00:00:00	Active
192.168.10.0/24	ESX-vSAN-NET	192.168.10.10 - 192.168.10.253	8.00:00:00	Active
192.168.12.0/24	ESXi-ISCSI-BLOCK-B	192.168.12.10 - 192.168.12.240	8.00:00:00	Active
192.168.2.0/24	ESXi-vMotion	192.168.2.10 - 192.168.2.253	8.00:00:00	Active
192.168.4.0/24	ESXi-NFS-File	192.168.4.10 - 192.168.4.20	8.00:00:00	Active
192.168.6.0/24	ESXi-ISCSI-BLOCK-A	192.168.6.10 - 192.168.6.240	8.00:00:00	Active
192.168.7.0/24	ESX-VM-NETWORK	192.168.7.40 - 192.168.7.253	8.00:00:00	Active

Table 23 - Scopes - SERVER-DC-01V

Health Check:

Corrective Action: Ensure inactive scope are removed from DHCP server.

1.2.4.2 Scope Statistics

Microsoft DHCP As Built Report - v1.0

Scope Id	Free IP	In Use IP	Percentage In Use	Reserved IP
10.10.32.0	0	0	0	0
10.10.33.0	195	19	9	3
10.10.34.0	243	1	0	0
10.10.35.0	243	1	0	0
192.168.10.0	244	0	0	0
192.168.12.0	226	5	2	3
192.168.2.0	244	0	0	0
192.168.4.0	11	0	0	0
192.168.6.0	227	4	2	2
192.168.7.0	113	94	45	17

Table 24 - IPv4 Scope Statistics - SERVER-DC-01V

1.2.4.3 Scope Failover

10.10.32.0

DHCP Server	server-dc-01v.pharmax.local
Partner DHCP Server	cayey-dc-01v.pharmax.local
Mode	LoadBalance
LoadBalance Percent	50
Server Role	--
Reserve Percent	0
Max Client Lead Time	01:00:00
State Switch Interval	--
Scope Ids	10.10.32.0
State	Normal
Auto State Transition	No
Authetication Enable	No

Table 25 - IPv4 Scope Failover Cofiguration - SERVER-DC-01V

Health Check:

Corrective Action: Ensure Dhcp servers require authentication (a shared secret) in order to secure communications between failover partners.

10.10.33.0

DHCP Server	server-dc-01v.pharmax.local
Partner DHCP Server	cayey-dc-01v.pharmax.local
Mode	LoadBalance
LoadBalance Percent	50
Server Role	--
Reserve Percent	0

Microsoft DHCP As Built Report - v1.0

Max Client Lead Time	01:00:00
State Switch Interval	--
Scope Ids	10.10.33.0
State	Normal
Auto State Transition	No
Authentication Enable	Yes

Table 26 - IPv4 Scope Failover Configuration - SERVER-DC-01V

1.2.4.4 NIC Binding

Interface Alias	IP Address	Subnet Mask	State
Ethernet0	192.168.5.1	255.255.255.0	Enabled

Table 27 - NIC Biding - SERVER-DC-01V

1.2.4.5 Policies

Name	Global Policy SCCM
Enabled	Yes
Scope Id	0.0.0.0
Processing Order	1
Condition	OR
Vendor Class	EQ Microsoft Windows 2000 Options
User Class	--
Mac Address	--
Client Id	--
Fqdn	--
Relay Agent	--
Circuit Id	--
Remote Id	--
Subscriber Id	--
Lease Duration	00:00:00
Description	--

Table 28 - Policy - Global Policy SCCM

1.2.4.6 Client Classes

Name	Type	Data	Ascii Data	Description
Default BOOTP Class	User	0x424f4f54502e4d6963726f736f6674	BOOTP.Microsoft	User class for BOOTP Clients

Microsoft DHCP As Built Report - v1.0

Name	Type	Data	Ascii Data	Description
Default Routing and Remote Access Class	User	0x525241532e4d6963726f736f6674	RRAS.Microsoft	User class for remote access clients
Microsoft Options	Vendor	0x4d534654	MSFT	Microsoft vendor-specific options applicable to all Windows Clients
Microsoft Windows 2000 Options	Vendor	0x4d53465420352e30	MSFT 5.0	Microsoft vendor-specific options for Windows 2000 and above Clients
Microsoft Windows 98 Options	Vendor	0x4d534654203938	MSFT 98	Microsoft vendor-specific options for Windows 98 Clients

Table 29 - Client Classes - SERVER-DC-01V

1.2.4.7 Option Definitions

Name	Option Id	Type	Vendor Class	Multi Valued
Subnet Mask	1	IPv4Address	--	No
Time Offset	2	DWord	--	No
Router	3	IPv4Address	--	Yes
Time Server	4	IPv4Address	--	Yes
Name Servers	5	IPv4Address	--	Yes
DNS Servers	6	IPv4Address	--	Yes
Log Servers	7	IPv4Address	--	Yes
Cookie Servers	8	IPv4Address	--	Yes
LPR Servers	9	IPv4Address	--	Yes
Impress Servers	10	IPv4Address	--	Yes
Resource Location Servers	11	IPv4Address	--	Yes
Host Name	12	String	--	No
Boot File Size	13	Word	--	No
Merit Dump File	14	String	--	No
DNS Domain Name	15	String	--	No
Swap Server	16	IPv4Address	--	No
Root Path	17	String	--	No
Extensions Path	18	String	--	No
IP Layer Forwarding	19	Byte	--	No
Nonlocal Source Routing	20	Byte	--	No
Policy Filter Masks	21	IPv4Address	--	Yes

Microsoft DHCP As Built Report - v1.0

Name	Option Id	Type	Vendor Class	Multi Valued
Max DG Reassembly Size	22	Word	--	No
Default IP Time-to-live	23	Byte	--	No
Path MTU Aging Timeout	24	DWord	--	No
Path MTU Plateau Table	25	Word	--	Yes
MTU Option	26	Word	--	No
All subnets are local	27	Byte	--	No
Broadcast Address	28	IPv4Address	--	No
Perform Mask Discovery	29	Byte	--	No
Mask Supplier Option	30	Byte	--	No
Perform Router Discovery	31	Byte	--	No
Router Solicitation Address	32	IPv4Address	--	No
Static Route Option	33	IPv4Address	--	Yes
Trailer Encapsulation	34	Byte	--	No
ARP Cache Timeout	35	DWord	--	No
Ethernet Encapsulation	36	Byte	--	No
TCP Default Time-to-live	37	Byte	--	No
Keepalive Interval	38	DWord	--	No
Keepalive Garbage	39	Byte	--	No
NIS Domain Name	40	String	--	No
NIS Servers	41	IPv4Address	--	Yes
NTP Servers	42	IPv4Address	--	Yes
Vendor Specific Info	43	BinaryData	--	No
WINS/NBNS Servers	44	IPv4Address	--	Yes
NetBIOS over TCP/IP NBDD	45	IPv4Address	--	Yes
WINS/NBT Node Type	46	Byte	--	No
NetBIOS Scope ID	47	String	--	No
X Window System Font	48	IPv4Address	--	Yes
X Window System Display	49	IPv4Address	--	Yes
Lease	51	DWord	--	No
Renewal (T1) Time Value	58	DWord	--	No
Rebinding (T2) Time Value	59	DWord	--	No
NIS+ Domain Name	64	String	--	No
NIS+ Servers	65	IPv4Address	--	Yes
Boot Server Host Name	66	String	--	No
Bootfile Name	67	String	--	No
Mobile IP Home Agents	68	IPv4Address	--	Yes
Simple Mail Transport Protocol (SMTP) Servers	69	IPv4Address	--	Yes
Post Office Protocol (POP3) Servers	70	IPv4Address	--	Yes

Name	Option Id	Type	Vendor Class	Multi Valued
Network News Transport Protocol (NNTP) Servers	71	IPv4Address	--	Yes
World Wide Web (WWW) Servers	72	IPv4Address	--	Yes
Finger Servers	73	IPv4Address	--	Yes
Internet Relay Chat (IRC) Servers	74	IPv4Address	--	Yes
StreetTalk Servers	75	IPv4Address	--	Yes
StreetTalk Directory Assistance (STDA) Servers	76	IPv4Address	--	Yes
Classless Static Routes	121	BinaryData	--	No

Table 30 - Option Definitions - SERVER-DC-01V

1.2.4.8 Global Server Options

Name	Option Id	Value	Policy Name
Time Server	4	192.168.5.1	--
Name Servers	5	192.168.5.1	--
DNS Servers	6	192.168.5.1	--
NTP Servers	42	192.168.5.1	--
Simple Mail Transport Protocol (SMTP) Servers	69	192.168.7.21	--
Post Office Protocol (POP3) Servers	70	192.168.7.21	--
	81	55	--

Table 31 - Scopes Server Options - SERVER-DC-01V

1.2.4.8.1 Global DNS Setting

The following table summarises the dhcp server ipv4 global dns setting.

Dynamic Updates	Always
Dns Suffix	--
Name Protection	Yes
Update Dns RR For Older Clients	Yes
Disable Dns Ptr RR Update	No
Delete Dns RR On Lease Expiry	Yes

Table 32 - Global DNS Setting - SERVER-DC-01V

1.2.4.9 Scope Configuration

Microsoft DHCP As Built Report - v1.0

The following sections detail the configuration of the ipv4 per scope configuration.

1.2.4.9.1 10.10.32.0

Properties

Name	ESXi-vMotion-DR
Type	Dhcp
Lease Duration	8.00:00:00
Start Range	10.10.32.10
End Range	10.10.32.250
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Inactive
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	VLAN32

Table 33 - Scopes Properties - 10.10.32.0

Options

Name	Option Id	Value	Policy Name
Router	3	10.10.32.254	--
DNS Domain Name	15	pharmax.local	--
Lease	51	691200	--

Table 34 - Scopes Options - 10.10.32.0

Policies

Name	SCCM
Enabled	Yes
Scope Id	10.10.32.0
Processing Order	1
Condition	OR
Vendor Class	EQ Microsoft Windows 2000 Options
User Class	--
Mac Address	--
Client Id	--
Fqdn	--
Relay Agent	--

Microsoft DHCP As Built Report - v1.0

Circuit Id	--
Remote Id	--
Subscriber Id	--
Lease Duration	00:00:00
Description	--

Table 35 - Policy - SCCM

1.2.4.9.2 10.10.33.0

Properties

Name	ESX-VM-NETWORK-DR
Type	Dhcp
Lease Duration	100.00:00:00
Start Range	10.10.33.40
End Range	10.10.33.253
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	VLAN33

Table 36 - Scopes Properties - 10.10.33.0

Reservations

IP Address	Client Id	Name	Type
10.10.33.10	0a-21-0a-0a	BAD_ADDRESS	Dhcp
10.10.33.11	0b-21-0a-0a	BAD_ADDRESS	Dhcp
10.10.33.42	00-50-56-b0-e4-b1	disaster-01a.pharmax.local	Dhcp

Table 37 - Scopes Reservation - 10.10.33.0

Options

Name	Option Id	Value	Policy Name
Router	3	10.10.33.254	--
Lease	51	8640000	--
Boot Server Host Name	66	192.168.5.2	--
Bootfile Name	67	snponly64.efi.vmw-hardwired	--

Microsoft DHCP As Built Report - v1.0

Name	Option Id	Value	Policy Name
	81	23	--

Table 38 - Scopes Options - 10.10.33.0

1.2.4.9.3 10.10.34.0

Properties

Name	ESXi-ISCSI-BLOCK-A-DR
Type	Dhcp
Lease Duration	8.00:00:00
Start Range	10.10.34.10
End Range	10.10.34.253
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	--

Table 39 - Scopes Properties - 10.10.34.0

Options

Name	Option Id	Value	Policy Name
DNS Servers	6	192.168.5.1 192.168.5.1	--
DNS Domain Name	15	pharmax.local	--
Lease	51	691200	--

Table 40 - Scopes Options - 10.10.34.0

1.2.4.9.4 10.10.35.0

Properties

Name	ESXi-ISCSI-BLOCK-B-DR
Type	Dhcp
Lease Duration	8.00:00:00
Start Range	10.10.35.10
End Range	10.10.35.253
Subnet Mask	255.255.255.0

Microsoft DHCP As Built Report - v1.0

Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	--

Table 41 - Scopes Properties - 10.10.35.0

Options

Name	Option Id	Value	Policy Name
DNS Servers	6	192.168.5.1 192.168.5.1	--
DNS Domain Name	15	pharmax.local	--
Lease	51	691200	--

Table 42 - Scopes Options - 10.10.35.0

1.2.4.9.5 192.168.2.0

Properties

Name	ESXi-vMotion
Type	Dhcp
Lease Duration	8.00:00:00
Start Range	192.168.2.10
End Range	192.168.2.253
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	VLAN02

Table 43 - Scopes Properties - 192.168.2.0

Options

Name	Option Id	Value	Policy Name
Router	3	192.168.2.254	--
DNS Domain Name	15	pharmax.local	--

Microsoft DHCP As Built Report - v1.0

Name	Option Id	Value	Policy Name
Lease	51	691200	--

Table 44 - Scopes Options - 192.168.2.0

1.2.4.9.6 192.168.4.0

Properties

Name	ESXi-NFS-File
Type	Dhcp
Lease Duration	8.00:00:00
Start Range	192.168.4.10
End Range	192.168.4.20
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	--

Table 45 - Scopes Properties - 192.168.4.0

Options

Name	Option Id	Value	Policy Name
Router	3	192.168.4.254	--
DNS Domain Name	15	pharmax.local	--
Lease	51	691200	--

Table 46 - Scopes Options - 192.168.4.0

Policies

Name	Test
Enabled	Yes
Scope Id	192.168.4.0
Processing Order	1
Condition	OR
Vendor Class	EQ Microsoft Windows 98 Options*
User Class	EQ Default BOOTP Class*

Microsoft DHCP As Built Report - v1.0

Mac Address	--
Client Id	--
Fqdn	--
Relay Agent	--
Circuit Id	--
Remote Id	--
Subscriber Id	--
Lease Duration	00:00:00
Description	--

Table 47 - Policy - Test

1.2.4.9.7 192.168.6.0

Properties

Name	ESXi-ISCSI-BLOCK-A
Type	Both
Lease Duration	8.00:00:00
Start Range	192.168.6.10
End Range	192.168.6.240
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	VLAN06

Table 48 - Scopes Properties - 192.168.6.0

Reservations

IP Address	Client Id	Name	Type
192.168.6.13	00-50-56-b0-66-b1	VEEAM-VBR.pharmax.local	Dhcp
192.168.6.14	00-50-56-b0-99-c8	VEEAM-VTL.pharmax.local	Dhcp

Table 49 - Scopes Reservation - 192.168.6.0

Options

Name	Option Id	Value	Policy Name
DNS Domain Name	15	pharmax.local	--
Lease	51	691200	--

Microsoft DHCP As Built Report - v1.0

Table 50 - Scopes Options - 192.168.6.0

Policies

Name	Default BOOTP Class
Enabled	Yes
Scope Id	192.168.6.0
Processing Order	1
Condition	OR
Vendor Class	--
User Class	EQ Default BOOTP Class
Mac Address	--
Client Id	--
Fqdn	--
Relay Agent	--
Circuit Id	--
Remote Id	--
Subscriber Id	--
Lease Duration	30.00:00:00
Description	User class for BOOTP Clients

Table 51 - Policy - Default BOOTP Class

1.2.4.9.8 192.168.7.0

Properties

Name	ESX-VM-NETWORK
Type	Dhcp
Lease Duration	8.00:00:00
Start Range	192.168.7.40
End Range	192.168.7.253
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	VLAN7

Table 52 - Scopes Properties - 192.168.7.0

Microsoft DHCP As Built Report - v1.0

Exclusion

Start Range	End Range
192.168.7.89	192.168.7.95

Table 53 - Scopes Exclusion - 192.168.7.0

Reservations

IP Address	Client Id	Name	Type
192.168.7.102	00-50-56-b0-9e-ba	srmsvr-01v.pharmax.local	Dhcp
192.168.7.128	00-50-56-b0-aa-e0	VEEAM-HSV.pharmax.local	Dhcp
192.168.7.141	00-50-56-b0-a8-da	VEEAM-VTL.pharmax.local	Dhcp
192.168.7.200	00-50-56-b0-39-d9	VEEAM-MINIO.pharmax.local	Both
192.168.7.30	00-50-56-b0-68-05	VEEAM-HSV.pharmax.local	Both
192.168.7.50	00-50-56-b0-a5-0b	SCCM-PC-01V.pharmax.local	Dhcp
192.168.7.53	00-50-56-b0-d0-c1	Horizon-CS-01V.pharmax.local	Dhcp
192.168.7.54	00-50-56-b0-28-78	Horizon-CS-02V.pharmax.local	Dhcp
192.168.7.55	00-50-56-b0-a9-dd	Horizon-CP-01V.pharmax.local	Dhcp
192.168.7.56	00-50-56-b0-82-4d	Horizon-SQL-01V.pharmax.local	Dhcp
192.168.7.57	00-50-56-b0-e7-8b	Horizon-APV-02V.pharmax.local	Dhcp
192.168.7.58	00-50-56-b0-a0-ae	Horizon-APV-01V.pharmax.local	Dhcp
192.168.7.73	00-50-56-b0-10-7a	VEEAM-VBR.pharmax.local	Dhcp
192.168.7.76	00-50-56-b0-ca-8a	VEEAM-VSA.pharmax.local	Dhcp
192.168.7.80	00-50-56-b0-96-97	VEEAM-SP.pharmax.local	Dhcp
192.168.7.83	00-50-56-b0-44-70	VEEAM-EM.pharmax.local	Dhcp
192.168.7.86	00-50-56-b0-a8-58	VEEAM-VBR-01V.pharmax.local	Dhcp

Table 54 - Scopes Reservation - 192.168.7.0

Options

Name	Option Id	Value	Policy Name
Router	3	192.168.7.254	--
DNS Domain Name	15	pharmax.local	--
Lease	51	691200	--
Boot Server Host Name	66	192.168.5.2	--
Bootfile Name	67	snponly64.efi.vmw-hardwired	--
	81	23	--

Table 55 - Scopes Options - 192.168.7.0

Policies

Name	VM-Policy
------	-----------

Microsoft DHCP As Built Report - v1.0

Enabled	Yes
Scope Id	192.168.7.0
Processing Order	1
Condition	AND
Vendor Class	--
User Class	EQ *Default Routing and Remote Access Class
Mac Address	--
Client Id	--
Fqdn	EQ bla.pharmax.local
Relay Agent	--
Circuit Id	--
Remote Id	--
Subscriber Id	--
Lease Duration	00:00:00
Description	Policy done bla bla bla

Table 56 - Policy - VM-Policy

1.2.4.9.9 192.168.10.0

Properties

Name	ESX-vSAN-NET
Type	Both
Lease Duration	8.00:00:00
Start Range	192.168.10.10
End Range	192.168.10.253
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	--

Table 57 - Scopes Properties - 192.168.10.0

Options

Name	Option Id	Value	Policy Name
Router	3	192.168.10.254	--

Microsoft DHCP As Built Report - v1.0

Name	Option Id	Value	Policy Name
DNS Servers	6	192.168.5.1 192.168.5.1	--
DNS Domain Name	15	pharmax.local	--
Lease	51	691200	--

Table 58 - Scopes Options - 192.168.10.0

Policies

Name	Default BOOTP Class
Enabled	Yes
Scope Id	192.168.10.0
Processing Order	1
Condition	OR
Vendor Class	--
User Class	EQ Default BOOTP Class
Mac Address	--
Client Id	--
Fqdn	--
Relay Agent	--
Circuit Id	--
Remote Id	--
Subscriber Id	--
Lease Duration	30.00:00:00
Description	User class for BOOTP Clients

Table 59 - Policy - Default BOOTP Class

1.2.4.9.10 192.168.12.0

Properties

Name	ESXi-ISCSI-BLOCK-B
Type	Both
Lease Duration	8.00:00:00
Start Range	192.168.12.10
End Range	192.168.12.240
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes

Microsoft DHCP As Built Report - v1.0

Nap Enable	No
Nap Profile	--
Description	VLAN12

Table 60 - Scopes Properties - 192.168.12.0

Reservations

IP Address	Client Id	Name	Type
192.168.12.12	00-50-56-62-64-6f	comp-02a.pharmax.local	Dhcp
192.168.12.13	00-50-56-b0-ec-c1	VEEAM-VBR.pharmax.local	Dhcp
192.168.12.14	00-50-56-b0-c6-0e	VEEAM-VTL.pharmax.local	Dhcp

Table 61 - Scopes Reservation - 192.168.12.0

Options

Name	Option Id	Value	Policy Name
DNS Domain Name	15	pharmax.local	--
Lease	51	691200	--

Table 62 - Scopes Options - 192.168.12.0

Policies

Name	Default BOOTP Class
Enabled	Yes
Scope Id	192.168.12.0
Processing Order	1
Condition	OR
Vendor Class	--
User Class	EQ
Mac Address	Default BOOTP Class
Client Id	--
Fqdn	--
Relay Agent	--
Circuit Id	--
Remote Id	--
Subscriber Id	--
Lease Duration	30.00:00:00
Description	User class for BOOTP Clients

Table 63 - Policy - Default BOOTP Class

1.3 IPv6 Information

The following section provides a IPv6 configuration summary of the Dynamic Host Configuration Protocol.

1.3.1 Service Statistics

DC Name	Total Scopes	Total Addresses	Addresses In Use	Addresses Available	Percentage In Use	Percentage Available
cayey-dc-01v	0	0	0	0	0	0
server-dc-01v	0	0	0	0	0	0

Table 64 - DHCP Server Statistics - PHARMAX.LOCAL

2 ACAD.PHARMAX.LOCAL

The following section provides a summary of the Dynamic Host Configuration Protocol.

2.1 DHCP Servers in Domain

The following table summarises the DHCP servers information within ACAD.PHARMAX.LOCAL.

DC Name	IP Address	Domain Name	Domain Joined	Authorized	Conflict Detection Attempts
acad-dhcp-01v	172.23.4.21	acad.pharmax.local	Yes	Yes	0
acade-dc-01v	172.23.4.1	acad.pharmax.local	Yes	Yes	0

Table 65 - DHCP Servers in Domain - ACAD.PHARMAX.LOCAL

2.1.1 Service Database

DC Name	File Path	Backup Path	Backup Interval	Logging Enabled
acad-dhcp-01v	C:\Windows\system32\dhcp\dhcp.mdb	C:\Windows\system32\dhcp\backup	60 min	Yes
acade-dc-01v	C:\Windows\system32\dhcp\dhcp.mdb	C:\Windows\system32\dhcp\backup	60 min	Yes

Table 66 - DHCP Servers Database - ACAD.PHARMAX.LOCAL

2.1.2 Dynamic DNS credentials

DC Name	User Name	Domain Name
acad-dhcp-01v	--	--
acade-dc-01v	--	--

Table 67 - DHCP Servers Dynamic DNS Credentials - ACAD.PHARMAX.LOCAL

2.2 IPv4 Information

The following sections detail the configuration of the ipv4 scopes within domain acad.pharmax.local.

2.2.1 Service Statistics

DC Name	Total Scopes	Total Addresses	Addresses In Use	Addresses Available	Percentage In Use	Percentage Available
acad-dhcp-01v	1	244	0	244	0	100
acade-dc-01v	2	467	0	467	0	100

Table 68 - DHCP Server Statistics - ACAD.PHARMAX.LOCAL

2.2.2 Filter Status

DC Name	Allow	Deny
acad-dhcp-01v	No	Yes
acade-dc-01v	No	No

Table 69 - Filter Status - ACAD.PHARMAX.LOCAL

2.2.3 ACAD-DHCP-01V

2.2.3.1 Scopes

The following sections summarizes the ipv4 scope configuration within ACAD-DHCP-01V.

Scope Id	Scope Name	Scope Range	Lease Duration	State
172.23.8.0/24	DATA	172.23.8.10 - 172.23.8.253	8.00:00:00	Active

Table 70 - Scopes - ACAD-DHCP-01V

2.2.3.2 Scope Statistics

Scope Id	Free IP	In Use IP	Percentage In Use	Reserved IP
172.23.8.0	244	0	0	0

Table 71 - IPv4 Scope Statistics - ACAD-DHCP-01V

2.2.3.3 NIC Binding

Microsoft DHCP As Built Report - v1.0

Interface Alias	IP Address	Subnet Mask	State
Ethernet1	192.168.6.40	255.255.255.0	Disabled
Ethernet0	172.23.4.21	255.255.255.0	Enabled

Table 72 - NIC Biding - ACAD-DHCP-01V

2.2.3.4 Client Classes

Name	Type	Data	Ascii Data	Description
Default BOOTP Class	User	0x424f4f54502e4d6963726f736f6674	BOOTP.Microsoft	User class for BOOTP Clients
Default Routing and Remote Access Class	User	0x525241532e4d6963726f736f6674	RRAS.Microsoft	User class for remote access clients
Microsoft Options	Vendor	0x4d534654	MSFT	Microsoft vendor-specific options applicable to all Windows Clients
Microsoft Windows 2000 Options	Vendor	0x4d53465420352e30	MSFT 5.0	Microsoft vendor-specific options for Windows 2000 and above Clients
Microsoft Windows 98 Options	Vendor	0x4d534654203938	MSFT 98	Microsoft vendor-specific options for Windows 98 Clients

Table 73 - Client Classes - ACAD-DHCP-01V

2.2.3.5 Option Definitions

Name	Option Id	Type	Vendor Class	Multi Valued
Subnet Mask	1	IPv4Address	--	No
Time Offset	2	DWord	--	No
Router	3	IPv4Address	--	Yes
Time Server	4	IPv4Address	--	Yes
Name Servers	5	IPv4Address	--	Yes
DNS Servers	6	IPv4Address	--	Yes
Log Servers	7	IPv4Address	--	Yes
Cookie Servers	8	IPv4Address	--	Yes
LPR Servers	9	IPv4Address	--	Yes
Impress Servers	10	IPv4Address	--	Yes
Resource Location Servers	11	IPv4Address	--	Yes
Host Name	12	String	--	No

Microsoft DHCP As Built Report - v1.0

Name	Option Id	Type	Vendor Class	Multi Valued
Boot File Size	13	Word	--	No
Merit Dump File	14	String	--	No
DNS Domain Name	15	String	--	No
Swap Server	16	IPv4Address	--	No
Root Path	17	String	--	No
Extensions Path	18	String	--	No
IP Layer Forwarding	19	Byte	--	No
Nonlocal Source Routing	20	Byte	--	No
Policy Filter Masks	21	IPv4Address	--	Yes
Max DG Reassembly Size	22	Word	--	No
Default IP Time-to-live	23	Byte	--	No
Path MTU Aging Timeout	24	DWord	--	No
Path MTU Plateau Table	25	Word	--	Yes
MTU Option	26	Word	--	No
All subnets are local	27	Byte	--	No
Broadcast Address	28	IPv4Address	--	No
Perform Mask Discovery	29	Byte	--	No
Mask Supplier Option	30	Byte	--	No
Perform Router Discovery	31	Byte	--	No
Router Solicitation Address	32	IPv4Address	--	No
Static Route Option	33	IPv4Address	--	Yes
Trailer Encapsulation	34	Byte	--	No
ARP Cache Timeout	35	DWord	--	No
Ethernet Encapsulation	36	Byte	--	No
TCP Default Time-to-live	37	Byte	--	No
Keepalive Interval	38	DWord	--	No
Keepalive Garbage	39	Byte	--	No
NIS Domain Name	40	String	--	No
NIS Servers	41	IPv4Address	--	Yes
NTP Servers	42	IPv4Address	--	Yes
Vendor Specific Info	43	BinaryData	--	No
WINS/NBNS Servers	44	IPv4Address	--	Yes
NetBIOS over TCP/IP NBDD	45	IPv4Address	--	Yes
WINS/NBT Node Type	46	Byte	--	No
NetBIOS Scope ID	47	String	--	No
X Window System Font	48	IPv4Address	--	Yes
X Window System Display	49	IPv4Address	--	Yes
Lease	51	DWord	--	No
Renewal (T1) Time Value	58	DWord	--	No
Rebinding (T2) Time Value	59	DWord	--	No

Microsoft DHCP As Built Report - v1.0

Name	Option Id	Type	Vendor Class	Multi Valued
NIS+ Domain Name	64	String	--	No
NIS+ Servers	65	IPv4Address	--	Yes
Boot Server Host Name	66	String	--	No
Bootfile Name	67	String	--	No
Mobile IP Home Agents	68	IPv4Address	--	Yes
Simple Mail Transport Protocol (SMTP) Servers	69	IPv4Address	--	Yes
Post Office Protocol (POP3) Servers	70	IPv4Address	--	Yes
Network News Transport Protocol (NNTP) Servers	71	IPv4Address	--	Yes
World Wide Web (WWW) Servers	72	IPv4Address	--	Yes
Finger Servers	73	IPv4Address	--	Yes
Internet Relay Chat (IRC) Servers	74	IPv4Address	--	Yes
StreetTalk Servers	75	IPv4Address	--	Yes
StreetTalk Directory Assistance (STDA) Servers	76	IPv4Address	--	Yes
Classless Static Routes	121	BinaryData	--	No

Table 74 - Option Definitions - ACAD-DHCP-01V

2.2.3.6 Scope Configuration

The following sections detail the configuration of the ipv4 per scope configuration.

2.2.3.6.1 172.23.8.0

Properties

Name	DATA
Type	Dhcp
Lease Duration	8.00:00:00
Start Range	172.23.8.10
End Range	172.23.8.253
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No

Microsoft DHCP As Built Report - v1.0

Nap Profile	--
Description	--

Table 75 - Scopes Properties - 172.23.8.0

Options

Name	Option Id	Value	Policy Name
Router	3	172.23.8.254	--
DNS Servers	6	172.23.4.1 192.168.5.1	--
DNS Domain Name	15	acad.pharmax.local	--
Lease	51	691200	--

Table 76 - Scopes Options - 172.23.8.0

2.2.4 ACADE-DC-01V

2.2.4.1 Scopes

The following sections summarizes the ipv4 scope configuration within ACADE-DC-01V.

Scope Id	Scope Name	Scope Range	Lease Duration	State
172.23.4.0/24	Dept-A Clients	172.23.4.20 - 172.23.4.253	8.00:00:00	Active
172.23.5.0/24	Dept-B Clients	172.23.5.10 - 172.23.5.253	1.00:00:00	Active

Table 77 - Scopes - ACADE-DC-01V

2.2.4.2 Scope Statistics

Scope Id	Free IP	In Use IP	Percentage In Use	Reserved IP
172.23.4.0	234	0	0	0
172.23.5.0	233	0	0	0

Table 78 - IPv4 Scope Statistics - ACADE-DC-01V

2.2.4.3 NIC Binding

Interface Alias	IP Address	Subnet Mask	State
Ethernet0	172.23.4.1	255.255.255.0	Enabled

Table 79 - NIC Biding - ACADE-DC-01V

2.2.4.4 Client Classes

Microsoft DHCP As Built Report - v1.0

Name	Type	Data	Ascii Data	Description
Default BOOTP Class	User	0x424f4f54502e4d6963726f736f6674	BOOTP.Microsoft	User class for BOOTP Clients
Default Routing and Remote Access Class	User	0x525241532e4d6963726f736f6674	RRAS.Microsoft	User class for remote access clients
Microsoft Options	Vendor	0x4d534654	MSFT	Microsoft vendor-specific options applicable to all Windows Clients
Microsoft Windows 2000 Options	Vendor	0x4d53465420352e30	MSFT 5.0	Microsoft vendor-specific options for Windows 2000 and above Clients
Microsoft Windows 98 Options	Vendor	0x4d534654203938	MSFT 98	Microsoft vendor-specific options for Windows 98 Clients

Table 80 - Client Classes - ACADE-DC-01V

2.2.4.5 Option Definitions

Name	Option Id	Type	Vendor Class	Multi Valued
Subnet Mask	1	IPv4Address	--	No
Time Offset	2	DWord	--	No
Router	3	IPv4Address	--	Yes
Time Server	4	IPv4Address	--	Yes
Name Servers	5	IPv4Address	--	Yes
DNS Servers	6	IPv4Address	--	Yes
Log Servers	7	IPv4Address	--	Yes
Cookie Servers	8	IPv4Address	--	Yes
LPR Servers	9	IPv4Address	--	Yes
Impress Servers	10	IPv4Address	--	Yes
Resource Location Servers	11	IPv4Address	--	Yes
Host Name	12	String	--	No
Boot File Size	13	Word	--	No
Merit Dump File	14	String	--	No
DNS Domain Name	15	String	--	No
Swap Server	16	IPv4Address	--	No
Root Path	17	String	--	No
Extensions Path	18	String	--	No
IP Layer Forwarding	19	Byte	--	No

Microsoft DHCP As Built Report - v1.0

Name	Option Id	Type	Vendor Class	Multi Valued
Nonlocal Source Routing	20	Byte	--	No
Policy Filter Masks	21	IPv4Address	--	Yes
Max DG Reassembly Size	22	Word	--	No
Default IP Time-to-live	23	Byte	--	No
Path MTU Aging Timeout	24	DWord	--	No
Path MTU Plateau Table	25	Word	--	Yes
MTU Option	26	Word	--	No
All subnets are local	27	Byte	--	No
Broadcast Address	28	IPv4Address	--	No
Perform Mask Discovery	29	Byte	--	No
Mask Supplier Option	30	Byte	--	No
Perform Router Discovery	31	Byte	--	No
Router Solicitation Address	32	IPv4Address	--	No
Static Route Option	33	IPv4Address	--	Yes
Trailer Encapsulation	34	Byte	--	No
ARP Cache Timeout	35	DWord	--	No
Ethernet Encapsulation	36	Byte	--	No
TCP Default Time-to-live	37	Byte	--	No
Keepalive Interval	38	DWord	--	No
Keepalive Garbage	39	Byte	--	No
NIS Domain Name	40	String	--	No
NIS Servers	41	IPv4Address	--	Yes
NTP Servers	42	IPv4Address	--	Yes
Vendor Specific Info	43	BinaryData	--	No
WINS/NBNS Servers	44	IPv4Address	--	Yes
NetBIOS over TCP/IP NBDD	45	IPv4Address	--	Yes
WINS/NBT Node Type	46	Byte	--	No
NetBIOS Scope ID	47	String	--	No
X Window System Font	48	IPv4Address	--	Yes
X Window System Display	49	IPv4Address	--	Yes
Lease	51	DWord	--	No
Renewal (T1) Time Value	58	DWord	--	No
Rebinding (T2) Time Value	59	DWord	--	No
NIS+ Domain Name	64	String	--	No
NIS+ Servers	65	IPv4Address	--	Yes
Boot Server Host Name	66	String	--	No
Bootfile Name	67	String	--	No
Mobile IP Home Agents	68	IPv4Address	--	Yes
Simple Mail Transport Protocol (SMTP) Servers	69	IPv4Address	--	Yes

Name	Option Id	Type	Vendor Class	Multi Valued
Post Office Protocol (POP3) Servers	70	IPv4Address	--	Yes
Network News Transport Protocol (NNTP) Servers	71	IPv4Address	--	Yes
World Wide Web (WWW) Servers	72	IPv4Address	--	Yes
Finger Servers	73	IPv4Address	--	Yes
Internet Relay Chat (IRC) Servers	74	IPv4Address	--	Yes
StreetTalk Servers	75	IPv4Address	--	Yes
StreetTalk Directory Assistance (STDA) Servers	76	IPv4Address	--	Yes
Classless Static Routes	121	BinaryData	--	No

Table 81 - Option Definitions - ACADE-DC-01V

2.2.4.6 Global Server Options

Name	Option Id	Value	Policy Name
DNS Servers	6	172.23.4.1 192.168.5.1 10.10.33.1	--
DNS Domain Name	15	acad.pharmax.local	--

Table 82 - Scopes Server Options - ACADE-DC-01V

2.2.4.6.1 Global DNS Setting

The following table summarises the dhcp server ipv4 global dns setting.

Dynamic Updates	OnClientRequest
Dns Suffix	--
Name Protection	No
Update Dns RR For Older Clients	No
Disable Dns Ptr RR Update	No
Delete Dns RR On Lease Expiry	Yes

Table 83 - Global DNS Setting - ACADE-DC-01V

Health Check:

Best Practice: 'Always dynamically update dns records' should be configured if secure dynamic DNS update is enabled and the domain controller is on the same host as the DHCP server.

2.2.4.7 Scope Configuration

Microsoft DHCP As Built Report - v1.0

The following sections detail the configuration of the ipv4 per scope configuration.

2.2.4.7.1 172.23.4.0

Properties

Name	Dept-A Clients
Type	Dhcp
Lease Duration	8.00:00:00
Start Range	172.23.4.20
End Range	172.23.4.253
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	--

Table 84 - Scopes Properties - 172.23.4.0

Options

Name	Option Id	Value	Policy Name
Router	3	172.23.4.254	--
DNS Servers	6	172.23.4.1 10.10.33.1 192.168.5.1	--
DNS Domain Name	15	acad.pharmax.local	--
Lease	51	691200	--

Table 85 - Scopes Options - 172.23.4.0

2.2.4.7.2 172.23.5.0

Properties

Name	Dept-B Clients
Type	Dhcp
Lease Duration	1.00:00:00
Start Range	172.23.5.10
End Range	172.23.5.253
Subnet Mask	255.255.255.0
Delay(ms)	0

Microsoft DHCP As Built Report - v1.0

State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	VLAN 25

Table 86 - Scopes Properties - 172.23.5.0

Exclusion

Start Range	End Range
172.23.5.20	172.23.5.30

Table 87 - Scopes Exclusion - 172.23.5.0

Options

Name	Option Id	Value	Policy Name
Router	3	172.23.5.254	--
Lease	51	86400	--

Table 88 - Scopes Options - 172.23.5.0

2.3 IPv6 Information

The following section provides a IPv6 configuration summary of the Dynamic Host Configuration Protocol.

2.3.1 Service Statistics

DC Name	Total Scopes	Total Addresses	Addresses In Use	Addresses Available	Percentage In Use	Percentage Available
acad-dhcp-01v	0	0	0	0	0	0
acade-dc-01v	2	1844674407 3709542362	0	1844674407 3709542362	0	100

Table 89 - DHCP Server Statistics - ACAD.PHARMAX.LOCAL

2.3.2 ACADE-DC-01V

2.3.2.1 Scopes

The following sections detail the configuration of the ipv6 scope within ACADE-DC-01V.

Microsoft DHCP As Built Report - v1.0

Scope Id	Scope Name	Lease Duration	State
fd99:2222::/64	Dept-D Client	8.00:00:00	Active
fd99:9971::/64	Dept-C Clients	8.00:00:00	Active

Table 90 - Scopes - ACADE-DC-01V

2.3.2.2 Scope Statistics

Scope Id	Free IP	In Use IP	Percentage In Use	Reserved IP
fd99:2222::	1844674407370954 2621	0	0	0
fd99:9971::	1844674407370955 1357	0	0	0

Table 91 - Scope Statistics - ACADE-DC-01V

2.3.2.3 Client Classes

Name	Type	Data	Ascii Data	Description
Microsoft Windows Options	Vendor	0x4d53465420352e30	MSFT 5.0	Microsoft vendor-specific options for Windows Clients

Table 92 - Client Classes - ACADE-DC-01V

2.3.2.4 Option Definitions

Name	Option Id	Type	Vendor Class	Multi Valued
SIP Server Domain Name List	21	String	--	Yes
SIP Servers IPv6 Address List	22	IPv6Address	--	Yes
DNS Recursive Name Server IPv6 Address List	23	IPv6Address	--	Yes
Domain Search List	24	String	--	Yes
NIS IPv6 Address List	27	IPv6Address	--	Yes
NIS+ IPv6 Address List	28	IPv6Address	--	Yes
NIS Domain List	29	String	--	Yes
NIS+ Domain Name List	30	String	--	Yes
SNTP Servers IPv6 Address List	31	IPv6Address	--	Yes
Information Refresh Time	32	DWord	--	No

Table 93 - Option Definitions - ACADE-DC-01V

2.3.2.5 Global Server Options

The following table summarises the dhcp server ipv4 global dns setting.

Name	Option Id	Type	Value
Domain Search List	24	String	fd99:9971::1

Table 94 - Global Server Options - ACADE-DC-01V

2.3.2.5.1 Global DNS Settings

Dynamic Updates	OnClientRequest
Name Protection	No
Delete Dns RR On Lease Expiry	Yes

Table 95 - Global DNS Setting - ACADE-DC-01V

2.3.2.6 Scope Configuration

The following section provides a summary 6 Scope Server Options information.

2.3.2.6.1 fd99:2222::

Exclusion

Start Range	End Range
fd99:2222::1	fd99:2222::2322

Table 96 - Scopes Exclusion - fd99:2222::

2.3.2.6.2 fd99:9971::

Exclusion

Start Range	End Range
fd99:9971::1	fd99:9971::1
fd99:9971::2233:2323:2323:2200	fd99:9971::2233:2323:2323:2300

Table 97 - Scopes Exclusion - fd99:9971::

Options

Name	Option Id	Type	Value
DNS Recursive Name Server IPv6 Address List	23	IPv6Address	fd99:9971::1

Table 98 - Scopes Options - fd99:9971::

3 UIA.LOCAL

The following section provides a summary of the Dynamic Host Configuration Protocol.

3.1 DHCP Servers in Domain

The following table summarises the DHCP servers information within UIA.LOCAL.

DC Name	IP Address	Domain Name	Domain Joined	Authorized	Conflict Detection Attempts
dc-uia-01v	172.23.7.1	uia.local	Yes	Yes	0

Table 99 - DHCP Servers in Domain - UIA.LOCAL

3.1.1 Service Database

DC Name	File Path	Backup Path	Backup Interval	Logging Enabled
dc-uia-01v	C:\Windows\system32\dhcp\dhcp.mdb	C:\Windows\system32\dhcp\backup	60 min	Yes

Table 100 - DHCP Servers Database - UIA.LOCAL

3.1.2 Dynamic DNS credentials

DC Name	User Name	Domain Name
dc-uia-01v	--	--

Table 101 - DHCP Servers Dynamic DNS Credentials - UIA.LOCAL

3.2 IPv4 Information

The following sections detail the configuration of the ipv4 scopes within domain uia.local.

3.2.1 Service Statistics

DC Name	Total Scopes	Total Addresses	Addresses In Use	Addresses Available	Percentage In Use	Percentage Available
dc-uia-01v	1	244	0	244	0	100

Table 102 - DHCP Server Statistics - UIA.LOCAL

3.2.2 Filter Status

DC Name	Allow	Deny
dc-uia-01v	No	No

Table 103 - Filter Status - UIA.LOCAL

3.2.3 DC-UIA-01V

3.2.3.1 Scopes

The following sections summarizes the ipv4 scope configuration within DC-UIA-01V.

Scope Id	Scope Name	Scope Range	Lease Duration	State
172.23.7.0/24	UIA Admin Scope	172.23.7.10 - 172.23.7.253	8.00:00:00	Active

Table 104 - Scopes - DC-UIA-01V

3.2.3.2 Scope Statistics

Scope Id	Free IP	In Use IP	Percentage In Use	Reserved IP
172.23.7.0	244	0	0	0

Table 105 - IPv4 Scope Statistics - DC-UIA-01V

3.2.3.3 NIC Binding

Interface Alias	IP Address	Subnet Mask	State
Ethernet0	172.23.7.1	255.255.255.0	Enabled

Table 106 - NIC Biding - DC-UIA-01V

3.2.3.4 Client Classes

Name	Type	Data	Ascii Data	Description
Default BOOTP Class	User	0x424f4f54502e4d6963726f736f6674	BOOTP.Microsoft	User class for BOOTP Clients
Default Routing and Remote Access Class	User	0x525241532e4d6963726f736f6674	RRAS.Microsoft	User class for remote access clients
Microsoft Options	Vendor	0x4d534654	MSFT	Microsoft vendor-specific options applicable to all Windows Clients
Microsoft Windows 2000 Options	Vendor	0x4d53465420352e30	MSFT 5.0	Microsoft vendor-specific options for

Microsoft DHCP As Built Report - v1.0

Name	Type	Data	Ascii Data	Description
				Windows 2000 and above Clients
Microsoft Windows 98 Options	Vendor	0x4d534654203938	MSFT 98	Microsoft vendor-specific options for Windows 98 Clients

Table 107 - Client Classes - DC-UIA-01V

3.2.3.5 Option Definitions

Name	Option Id	Type	Vendor Class	Multi Valued
Subnet Mask	1	IPv4Address	--	No
Time Offset	2	DWord	--	No
Router	3	IPv4Address	--	Yes
Time Server	4	IPv4Address	--	Yes
Name Servers	5	IPv4Address	--	Yes
DNS Servers	6	IPv4Address	--	Yes
Log Servers	7	IPv4Address	--	Yes
Cookie Servers	8	IPv4Address	--	Yes
LPR Servers	9	IPv4Address	--	Yes
Impress Servers	10	IPv4Address	--	Yes
Resource Location Servers	11	IPv4Address	--	Yes
Host Name	12	String	--	No
Boot File Size	13	Word	--	No
Merit Dump File	14	String	--	No
DNS Domain Name	15	String	--	No
Swap Server	16	IPv4Address	--	No
Root Path	17	String	--	No
Extensions Path	18	String	--	No
IP Layer Forwarding	19	Byte	--	No
Nonlocal Source Routing	20	Byte	--	No
Policy Filter Masks	21	IPv4Address	--	Yes
Max DG Reassembly Size	22	Word	--	No
Default IP Time-to-live	23	Byte	--	No
Path MTU Aging Timeout	24	DWord	--	No
Path MTU Plateau Table	25	Word	--	Yes
MTU Option	26	Word	--	No
All subnets are local	27	Byte	--	No
Broadcast Address	28	IPv4Address	--	No
Perform Mask Discovery	29	Byte	--	No

Microsoft DHCP As Built Report - v1.0

Name	Option Id	Type	Vendor Class	Multi Valued
Mask Supplier Option	30	Byte	--	No
Perform Router Discovery	31	Byte	--	No
Router Solicitation Address	32	IPv4Address	--	No
Static Route Option	33	IPv4Address	--	Yes
Trailer Encapsulation	34	Byte	--	No
ARP Cache Timeout	35	DWord	--	No
Ethernet Encapsulation	36	Byte	--	No
TCP Default Time-to-live	37	Byte	--	No
Keepalive Interval	38	DWord	--	No
Keepalive Garbage	39	Byte	--	No
NIS Domain Name	40	String	--	No
NIS Servers	41	IPv4Address	--	Yes
NTP Servers	42	IPv4Address	--	Yes
Vendor Specific Info	43	BinaryData	--	No
WINS/NBNS Servers	44	IPv4Address	--	Yes
NetBIOS over TCP/IP NBDD	45	IPv4Address	--	Yes
WINS/NBT Node Type	46	Byte	--	No
NetBIOS Scope ID	47	String	--	No
X Window System Font	48	IPv4Address	--	Yes
X Window System Display	49	IPv4Address	--	Yes
Lease	51	DWord	--	No
Renewal (T1) Time Value	58	DWord	--	No
Rebinding (T2) Time Value	59	DWord	--	No
NIS+ Domain Name	64	String	--	No
NIS+ Servers	65	IPv4Address	--	Yes
Boot Server Host Name	66	String	--	No
Bootfile Name	67	String	--	No
Mobile IP Home Agents	68	IPv4Address	--	Yes
Simple Mail Transport Protocol (SMTP) Servers	69	IPv4Address	--	Yes
Post Office Protocol (POP3) Servers	70	IPv4Address	--	Yes
Network News Transport Protocol (NNTP) Servers	71	IPv4Address	--	Yes
World Wide Web (WWW) Servers	72	IPv4Address	--	Yes
Finger Servers	73	IPv4Address	--	Yes
Internet Relay Chat (IRC) Servers	74	IPv4Address	--	Yes
StreetTalk Servers	75	IPv4Address	--	Yes

Name	Option Id	Type	Vendor Class	Multi Valued
StreetTalk Directory Assistance (STDA) Servers	76	IPv4Address	--	Yes
Classless Static Routes	121	BinaryData	--	No

Table 108 - Option Definitions - DC-UIA-01V

3.2.3.6 Scope Configuration

The following sections detail the configuration of the ipv4 per scope configuration.

3.2.3.6.1 172.23.7.0

Properties

Name	UIA Admin Scope
Type	Dhcp
Lease Duration	8.00:00:00
Start Range	172.23.7.10
End Range	172.23.7.253
Subnet Mask	255.255.255.0
Delay(ms)	0
State	Active
Max Bootp Clients	4294967295
Activate Policies	Yes
Nap Enable	No
Nap Profile	--
Description	--

Table 109 - Scopes Properties - 172.23.7.0

Options

Name	Option Id	Value	Policy Name
Router	3	172.23.7.254	--
DNS Servers	6	172.23.7.1 192.168.5.1	--
DNS Domain Name	15	uia.local	--
Lease	51	691200	--

Table 110 - Scopes Options - 172.23.7.0

3.3 IPv6 Information

Microsoft DHCP As Built Report - v1.0

The following section provides a IPv6 configuration summary of the Dynamic Host Configuration Protocol.

3.3.1 Service Statistics

DC Name	Total Scopes	Total Addresses	Addresses In Use	Addresses Available	Percentage In Use	Percentage Available
dc-uia-01v	0	0	0	0	0	0

Table 111 - DHCP Server Statistics - UIA.LOCAL