

Configuring DHCP Options for Automatic N-series Configuration

This document will assist administrators in configuring their Microsoft Windows DHCP server(s) to allow the NComputing N-Series to automatically connect to XenDesktop and vSpace Management Center environments.

If you are already familiar with the administration of DHCP servers and the creation of option tags, feel free to skip to the <u>N-series DHCP Tags</u> section of this guide for a list of tags that the N-series supports.

For those less familiar with DHCP administration, sections 1 and 2 of this manual describe how to access the DHCP settings in Server 2003 and Server 2008 respectively.

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1. Accessing DHCP Settings in Windows Server 2003

From the DHCP server:

1. From the Start Menu click "Manage Your Server"





2. Click "Manage this DHCP server" as seen below:

🂐 Manage	2 Your Server		
	Manage Your Server	Search Help and Support Ce	nter 📄 🔁
	Managing Your Server Roles Use the tools and information found here to add or remove roles and perform your daily administrative tasks. Your server has been configured with the following roles:	 Add or remove a role Read about server roles Read about remote administration 	Lools and Updates Administrative Tools More Tools Windows Update Computer and Domain Name Information Information Internet Explorer Enhanced Security Configuration
	DHCP (Dynamic Host Configuration Protocol) servers assign IP addresses to network clients.	Manage this DHCP server Manage this DHCP server Peview the next steps Opens the addresse	Sge Also e OHCP console, which helps you assign I is to network clients. Deployment and Resource Kits List of Common Administrative Tasks Windows Server Communities What's New Strategic Technology Protection Program
	☑ Don't display this page at logon		

3. Select DHCP and click "Set Predefined Options" as seen below.

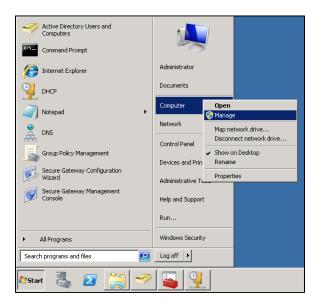
<u>С</u> р			_ 🗆 🗵
<u>File Action View H</u> elp			
DHCP DHCP	DHCP		
	ontents of DHCP	Status	
New Scoge New <u>M</u> ulticast Scope	oncdhcp [10.4.0.9]	Running	
<u>B</u> ackup Rest <u>o</u> re			
Reconcile <u>A</u> ll Scopes			
Defi <u>n</u> e User Classes Define Vendor <u>C</u> lasses			
Set Predefined Options			
All Tas <u>k</u> s	• _		
<u>D</u> elete Re <u>f</u> resh			
P <u>r</u> operties			
Help			
Add, remove or change options from the p	oredefined list		

4. Proceed to the <u>N-series DHCP Tags</u> section of this guide for a description of available DHCP tags and instructions for adding them to your DHCP server.



2. Accessing DHCP Settings in Windows Server 2008

From the DHCP Server:



- 1. Right-click Computer and select "Manage"
- 2. From the Computer Management window, open the Roles section and then the DHCP Server section as seen below.

File Action View Help					
🚠 Server Manager (QADC) ⊡ 恥 Roles)	IPv4 Contents of DHCP Server	Status	Actions IPv4	
	Certificate Services Domain Services	Concerns of UPCP Server Scope [192,168,10,0] QA Server Options Filters	** Active ** Inactive	More Actions	

3. Open the DHCP Server Name in question, right-click on IPv4, and select "Set Predefined Options". You are now ready to specify which DHCP tags you wish to add to your N-series environment. Each of the potential tags and their functions are explained in the next section of this guide.



3. N-series DHCP Tags

The N-series can make use of several DHCP tags and functions. This section will walk you through adding the tags and functions appropriate for your deployment.

1. From the Predefined Options and Values window, click the "Add" button.

Predefined Option	ns and ¥alues	? ×
Option class:	DHCP Standard Options	-
Option name:	002 Time Offset	•
	Add Edit	Delete
Description:	UCT offset in seconds	
Value Long: 0x0		
	OK	Cancel

 Select and implement your chosen tags by filling out the Name, Data type, Code, and Description fields as specified below. Note that the "STRING VALUE" is used later in step 5.

XenDesktop Tag 181			
This tag will automatically link your N-series	Name	XenDesktop*	
device(s) with their designated XenDesktop	Data Type	String	
server(s).	Code	181	
	Description	Default XenDesktop server	
	STRING VALUE	(The IP, URL, or Fully Qualified	
		Domain Name of your	
		XenDesktop server.)	
	Notes	*We recommend you use	
		"XenDesktop" plus the IP	
		address or URL of your	
		XenDesktop server to	
		differentiate this tag from any	
		future tags you might add.	



•			
NComputing CMF Tag 171			
This tag will automatically link your N-series	Name	VMC*	
device(s) with their designated vSpace Management Center server.	Data Type	String	
	Code	171	
	Description	Default vSpace Management	
		Center Server	
	STRING VALUE	(The IP or Fully Qualified Domain	
		Name of your vSpace	
		Management Center server)	
	Notes	*We recommend you use "VMC"	
		plus the IP address or URL of	
		your vSpace Management	
		Center server to differentiate	
		this tag from any future tags you	
		might add.	
N-series Firmware Tag 172			
This tag allows you to direct your N-series	Name	N-series Firmware URL	
devices to a server that you have created to	Data Type	String	
store and distribute N-series firmware.	Code	172	
	Description	Address of firmware update	
Use this tag to store the firmware server's		server.	
network address.	STRING VALUE	(The FTP, HTTP, or HTTPS	
		address of your firmware	
If your firmware server requires a username		server.)	
and password, use tags 173 and 174 to store	Notes	If the server you are storing N-	
those details.		series firmware on requires a	
		username and password, add	
		NComputing CMF Tags 173 and	
		174 to store that information.	
N-series Firmware Tag 173			
Use this tag in conjunction with 172 to store the	Name	N-series Firmware Username	
firmware server's username (if username and	Data Type	String	
password are required).	Code	173	
	Description	Address of firmware update server.	
	STRING VALUE	(The FTP, HTTP, or HTTPS	
		address of your firmware	
		server.)	
	Notes	This tag is only required if the	
		server you are storing N-series	
		firmware on requires a	
		username.	
	1		



N-series Firmware Tag 174			
Use this tag in conjunction with 172 to store the	Name	N-series Firmware Password	
firmware server's password (if username and	Data Type	String	
password are required).	Code	174	
	Description	Address of firmware update	
		server.	
	STRING VALUE	(The FTP, HTTP, or HTTPS	
		address of your firmware	
		server.)	
	Notes	This tag is only required if the	
		server you are storing N-series	
		firmware on requires a	
		password.	

Option Type	? ×
Class:	Global
Name:	VMC
Data type:	String CArray
Code:	171
Description:	Default VMC Server
	OK Cancel

- To the right is an example of a completed entry (in this case, the VMC 171 tag).
- 3. You can now verify that the tag you created has been saved by clicking on the **Option Name** drop down (see image below) and searching for the tag(s) in question.
- 4. Once again from the Predefined Options and Values window, select each tag and fill in the **Value** field with the string values specified earlier in **step 2**.
 - a. **Example:** For Tag 171, the string value would be the IP address or Fully Qualified Domain Name of your vSpace Management Center server.
 - b. Note: For tags that accept IP addresses, you can enter multiple IP addresses so long as each IP is separated by a semi-colon (;).
- 5. Once your entries are complete, click "OK". Your DHCP Tags are now configured. You may now exit Server Management.

Predefined Options	and ¥alues	? ×
Option class:	DHCP Standard Options	•
Option name:	002 Time Offset	•
	Add Edit	Delete
Description:	UCT offset in seconds	
Value Long: 0x0		
	ОК	Cancel