

## BridgeChecker v1.4 Microsoft GPO and Msiexec Application Note

### Microsoft Group Policy

BridgeChecker can be deployed using Microsoft Group Policy

1. Create a new Shared folder on Domain Controller named Software (share with everyone and give everyone read permission)
2. Create a folder inside Software name BridgeChecker and put the BridgeCheckerInstaller.msi package there.
3. Create a new GPO and link it to the Organizational Unit. Name it BridgeCheckerInstall
4. In the Computers section of the GPO, we'll go to the Software Settings under Policies to get to the Software Installation settings.
5. Create a new Package by right-clicking and selecting New-Package
6. Select the .msi file and select any Options.
7. Run gpupdate /force from the Server (or wait for the Refresh Interval)
8. Have your users reboot their client machines.

### Using ProgramData File To Duplicate Configuration

BridgeChecker stores configuration settings in the c:\programdata\accessagility\bridgechecker\settings.mdb file. (NOTE: The c:\programdata folder is hidden by default. Setting can be changed from Control Pane > Folder Options > View Tab

For machines with identical hardware the settings.mdb file can be copied to the folder above to configure multiple machines quickly.

### Using Microsoft Msiexec

Msiexec is a Microsoft Windows command that provides the means to install, modify, and perform operations on Windows Installer from the command line.

Type msiexec on command line to for help or see link below for details about msixec.exe  
<http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/msiexec.msp>

BridgeChecker support msiexec parameters for installation and configuration.

Below command line parameters are supported:

**PASSWORD** - admin password

**MODE** - B=BridgeCheck, O=OneNic

**PRIMARY\_ADAPTER** - can only have one value

**SECONDARY\_ADAPTER** - can only have one value

**WHITELIST\_ADAPTER** - can have multiple values separated by a comma "," ("adapter1,adapter2,adpater3")

**DISABLE\_ADAPTER\_LIST** - can have multiple values separated by a comma "," and is parameter is only applicable when Mode=O (oneNIC). ("adapter1,adapter2,adpater3").

### Sample Command

```
msiexec /i bridgecheckerinstaller.msi /passive PASSWORD=12345678 MODE=B
```

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```
C:\Windows\system32\cmd.exe
Wireless LAN adapter Wireless Network Connection 4:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . :
Description . . . . . : Microsoft Virtual WiFi Miniport Adapter
Physical Address. . . . . :
DHCP Enabled. . . . . :
Autoconfiguration Enabled . . . . . :

Wireless LAN adapter Wireless Network Connection 3:
Media State . . . . . :
Connection-specific DNS Suffix . . . . . :
Description . . . . . : DW1501 Wireless-N WLAN Half-Mini Card
Physical Address. . . . . :
DHCP Enabled. . . . . :
Autoconfiguration Enabled . . . . . :

Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix . . . . . :
Description . . . . . : Intel(R) 82577LM Gigabit Network Connection
Physical Address. . . . . :
DHCP Enabled. . . . . :
Autoconfiguration Enabled . . . . . :
Link-local IPv6 Address . . . . . :
IPv4 Address. . . . . :
Subnet Mask . . . . . :
Lease Obtained . . . . . :
Lease Expires . . . . . :
Default Gateway . . . . . :
DHCP Server . . . . . :
DHCPv6 Iaid . . . . . :
DHCPv6 Client DUID. . . . . :
```

\*To find the adapter names, you can start the Command Prompt then type “ipconfig /all”. The name will be the one next to “Description” for each

\*You can also go to Control Panel\Network and Internet\Network Connections and right-click on an adapter, select “Properties” from the drop-down menu. The name of the adapter will be displayed under “Connect using”.

1 - Following command will install BridgeChecker and set the password to “12345678”, mode to Bridgechecker, set the adapter with the name “Intel(R) 82577LM Gigabit Network Connection” as the primary adapter and “DW1501 Wireless-N WLAN Half-Mini Card” as the secondary adapter. It also whitelists the adapter “Microsoft Virtual WiFi Miniport Adapter”:

```
msiexec /i bridgecheckerinstaller.msi /passive PASSWORD=12345678 MODE=B PRIMARY_ADAPTER="Intel(R) 82577LM Gigabit Network Connection" SECONDARY_ADAPTER="DW1501 Wireless-N WLAN Half-Mini Card" WHITELIST_ADAPTER="Microsoft Virtual WiFi Miniport Adapter"
```

2 - Following command will install BridgeChecker and set the password to “ASDFQWER”, mode to OneNIC, and set the adapter with the name “DW1501 Wireless-N WLAN Half-Mini Card” as the primary adapter. It also whitelists the adapters “Intel(R) 82577LM Gigabit Network Connection” and “Microsoft Virtual WiFi Miniport Adapter”:

```
msiexec /i bridgecheckerinstaller.msi /passive PASSWORD= ASDFQWER MODE=O PRIMARY_ADAPTER="DW1501 Wireless-N WLAN Half-Mini Card" WHITELIST_ADAPTER="Microsoft Virtual WiFi Miniport Adapter,Intel(R) 82577LM Gigabit Network Connection"
```