

Windows 2003 IAS (RADIUS) Server for Wi-Fi Protected Access Enterprise

Dcpromo procedure

Installing IAS (Internet Authentication Service)

Obtain a CA for IAS Server

Configuration of IAS for RADIUS Server

Creating new remote access policy

Creating Account for accessing wireless AP

Log file for analyzing IAS authentication problem

WAP/WPA2-enterprise configuration on Access Point/Wireless client

802.1x Authentication configuration on Access Point/Wireless client

Troubleshooting

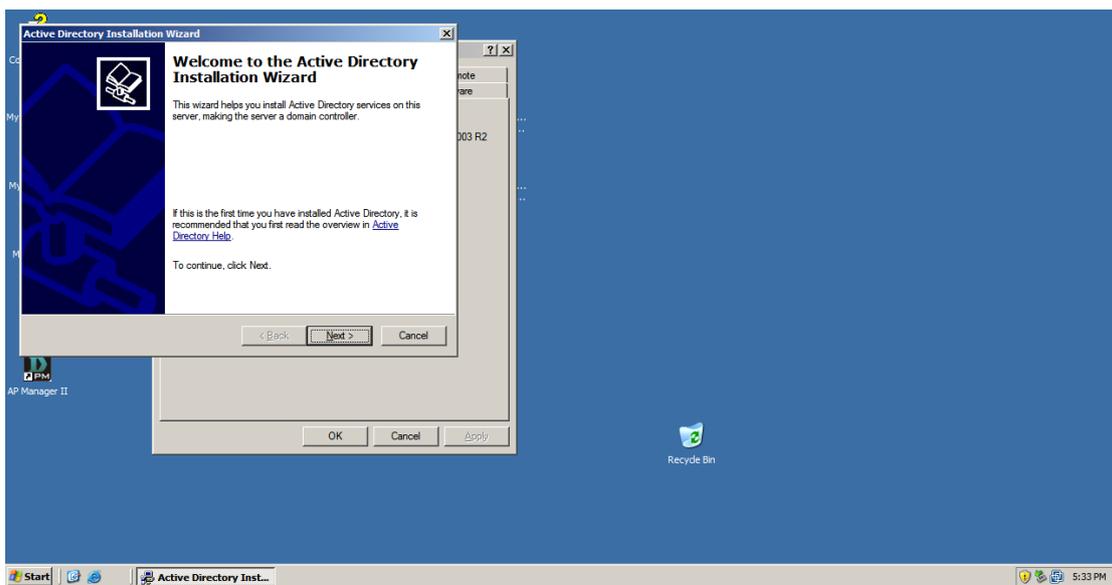
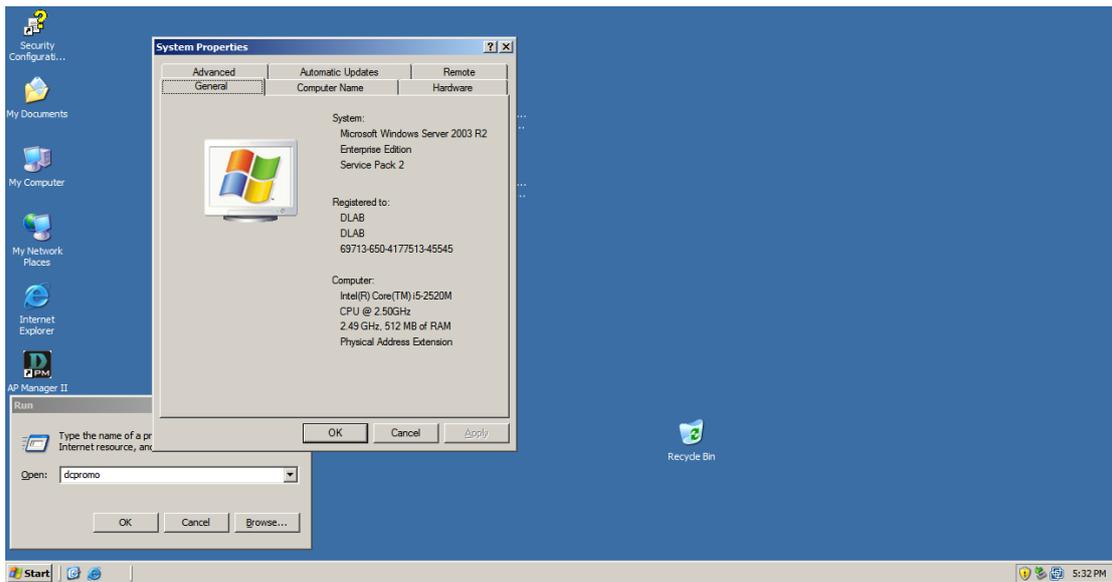
-Event viewer via 2003 server

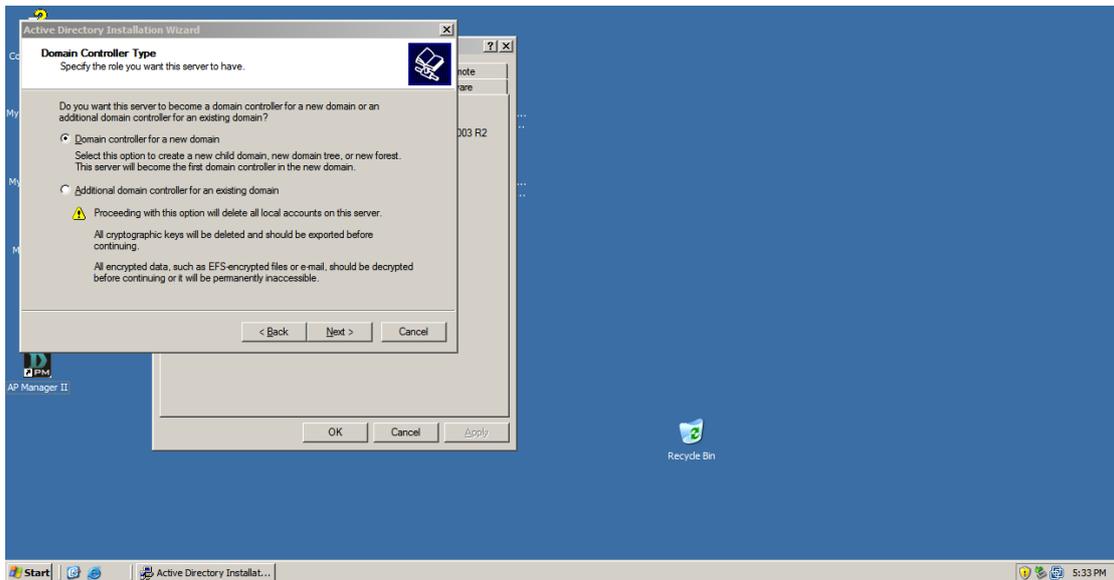
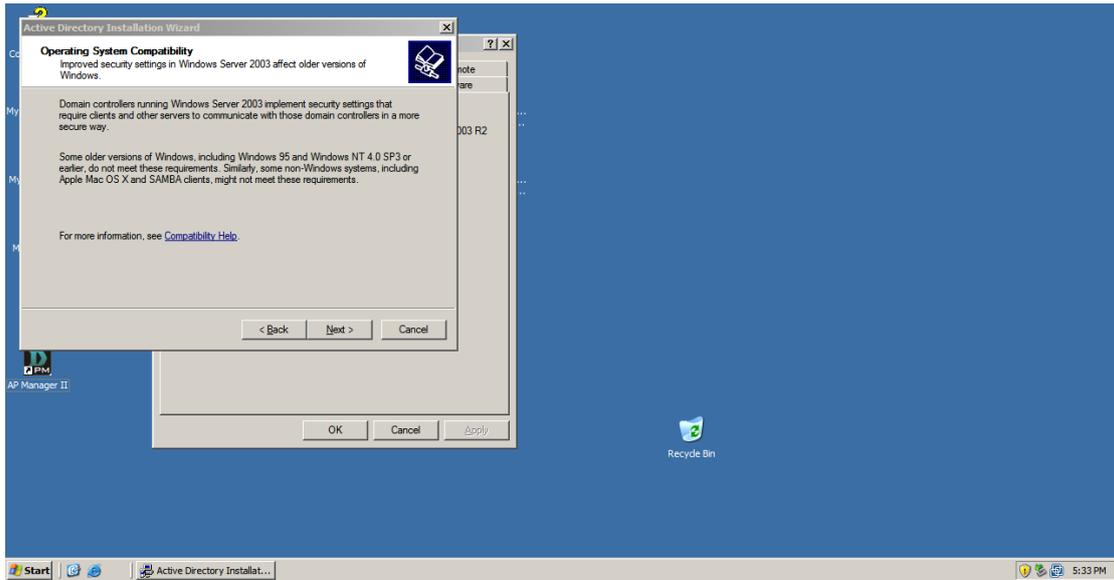
-Verifying and troubleshooting via log file

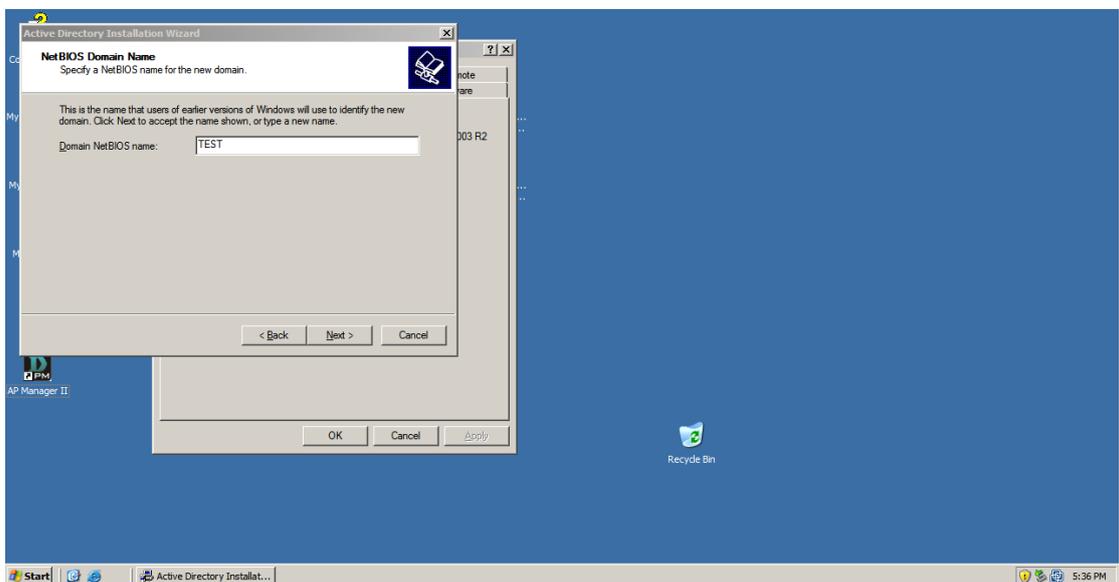
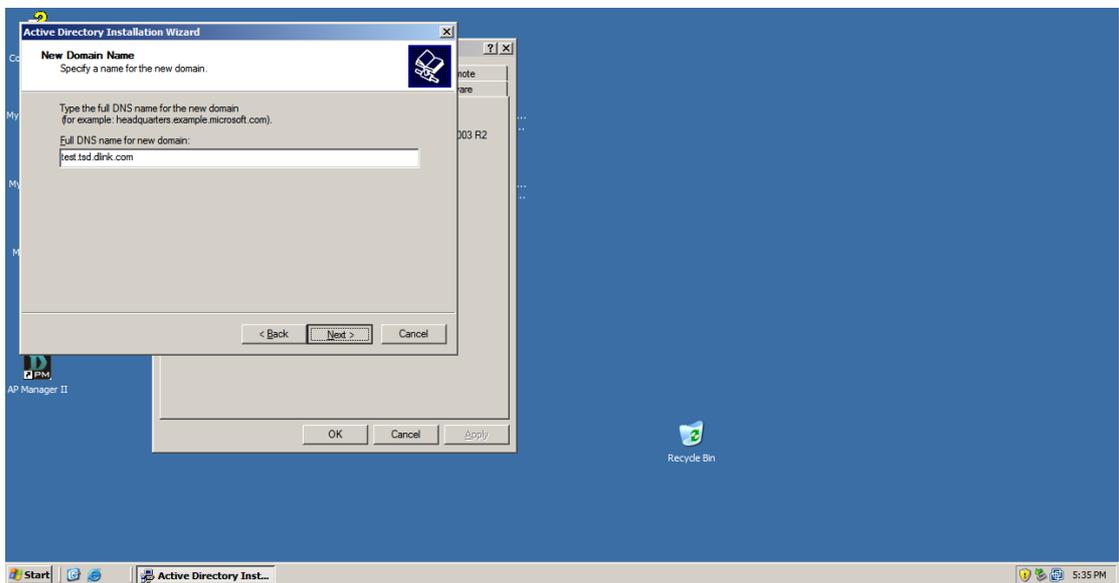
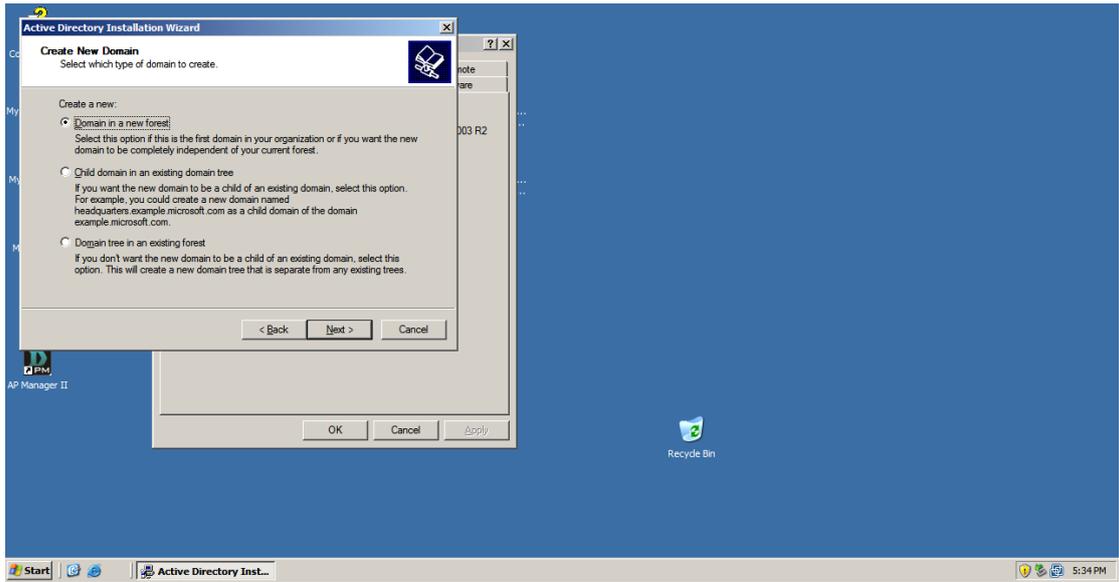
TSD

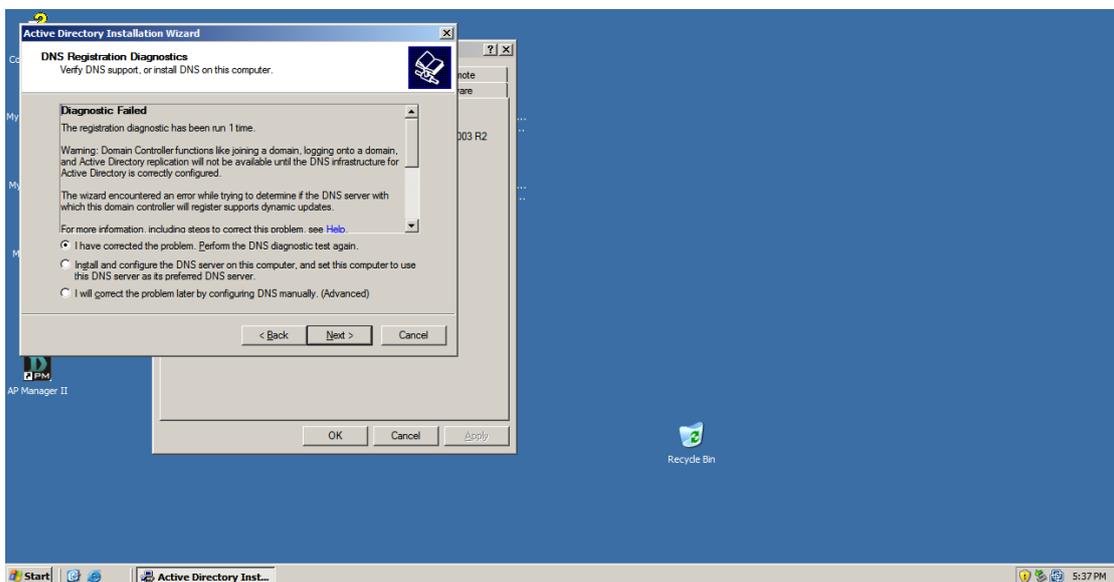
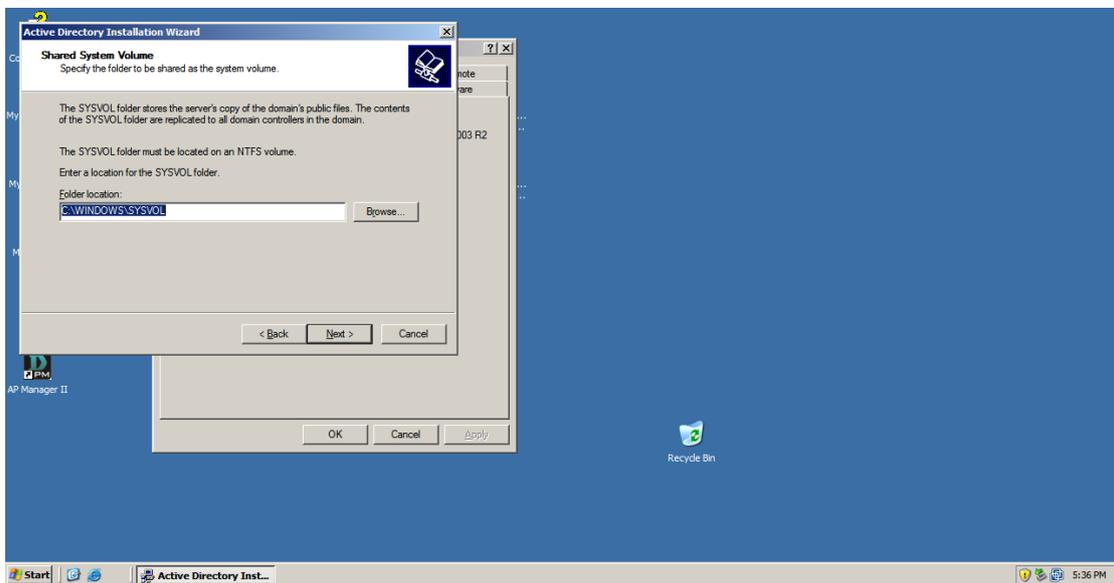
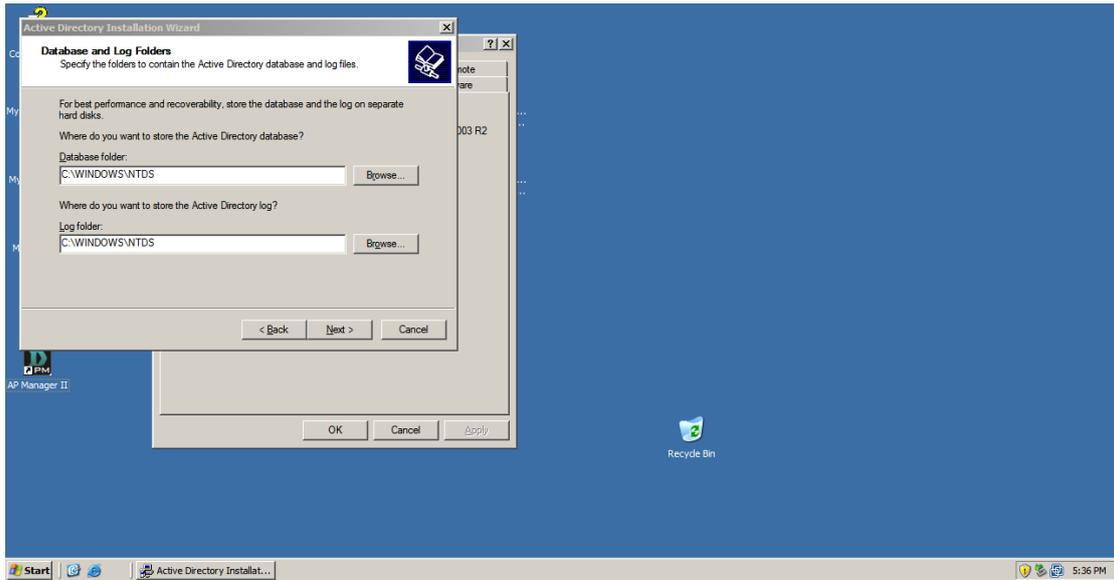
Aaron Jhang

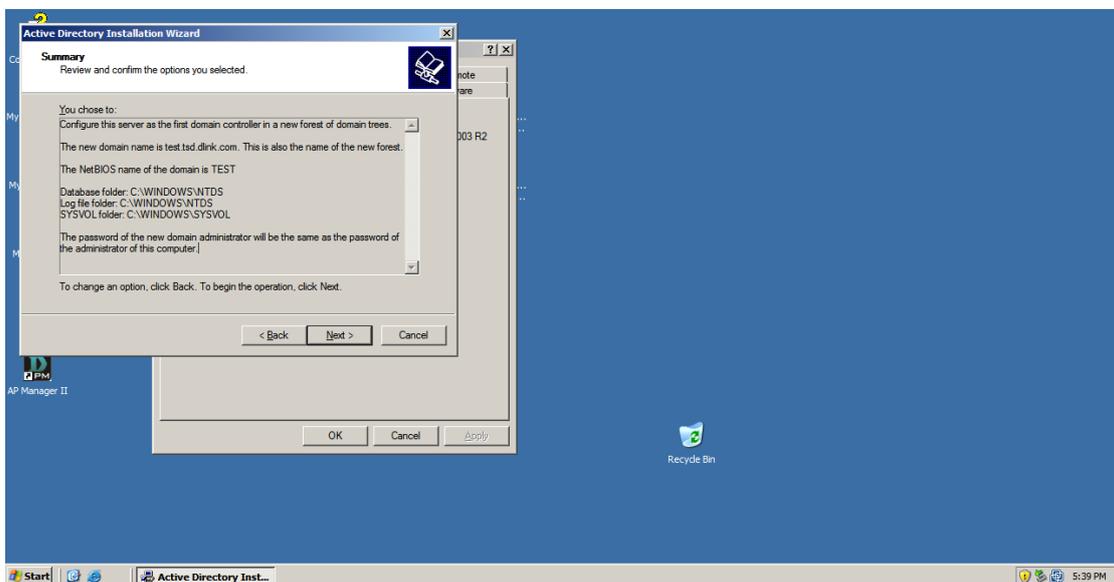
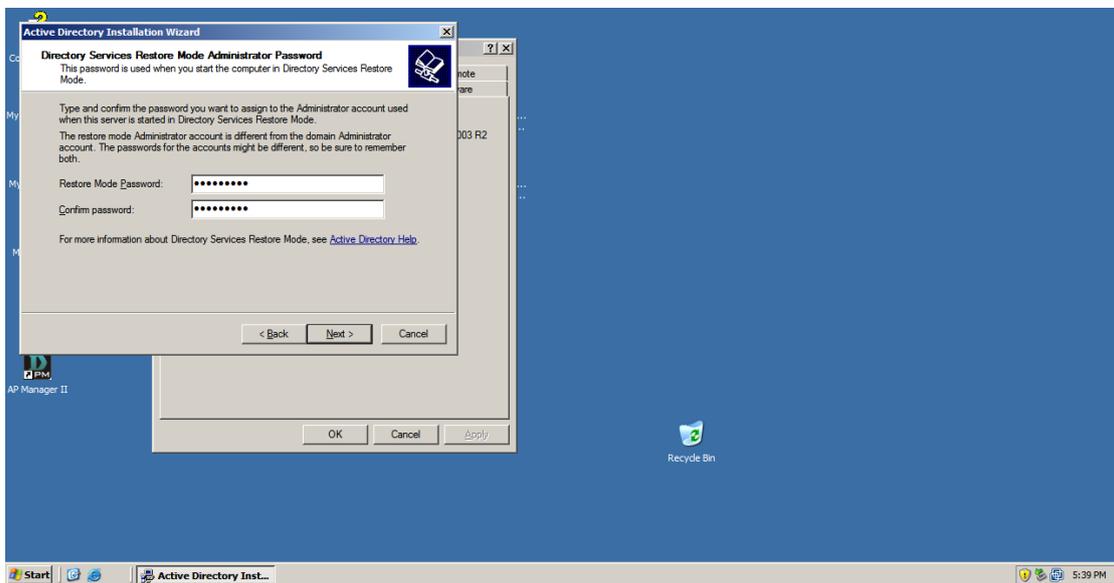
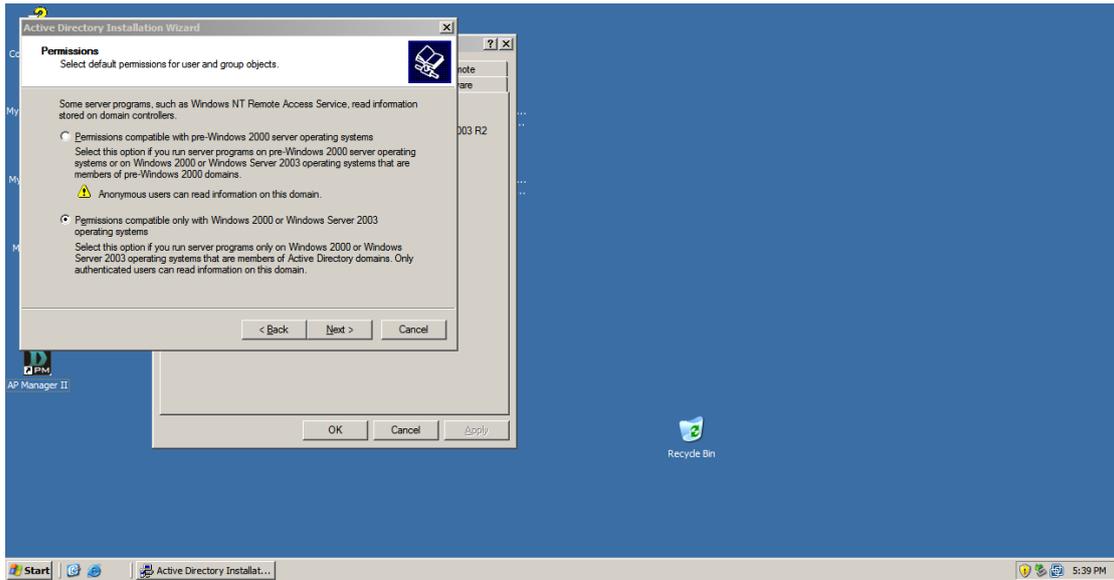
● Dcpromo procedure

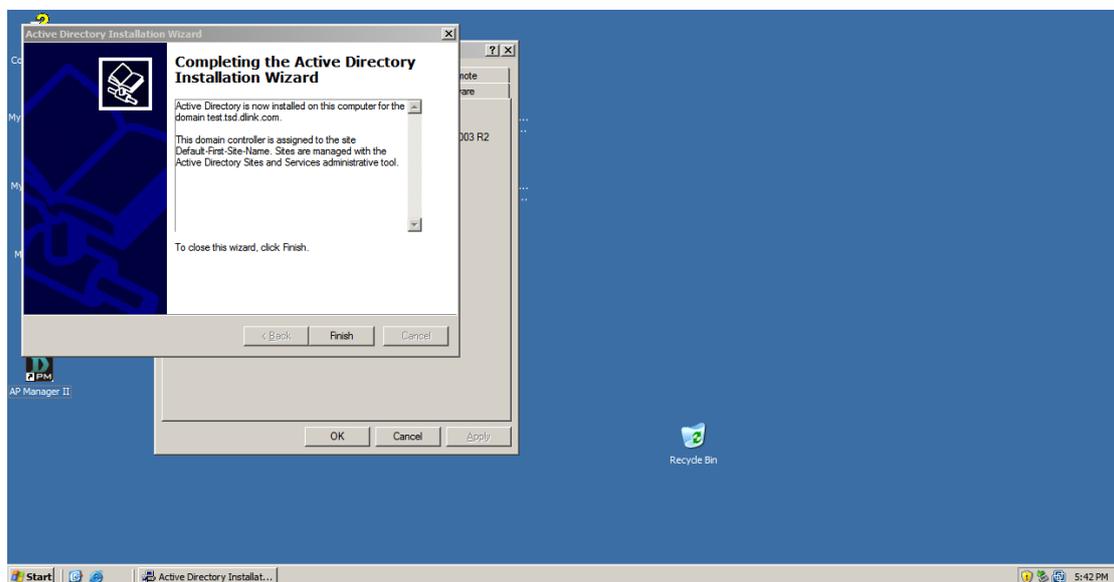
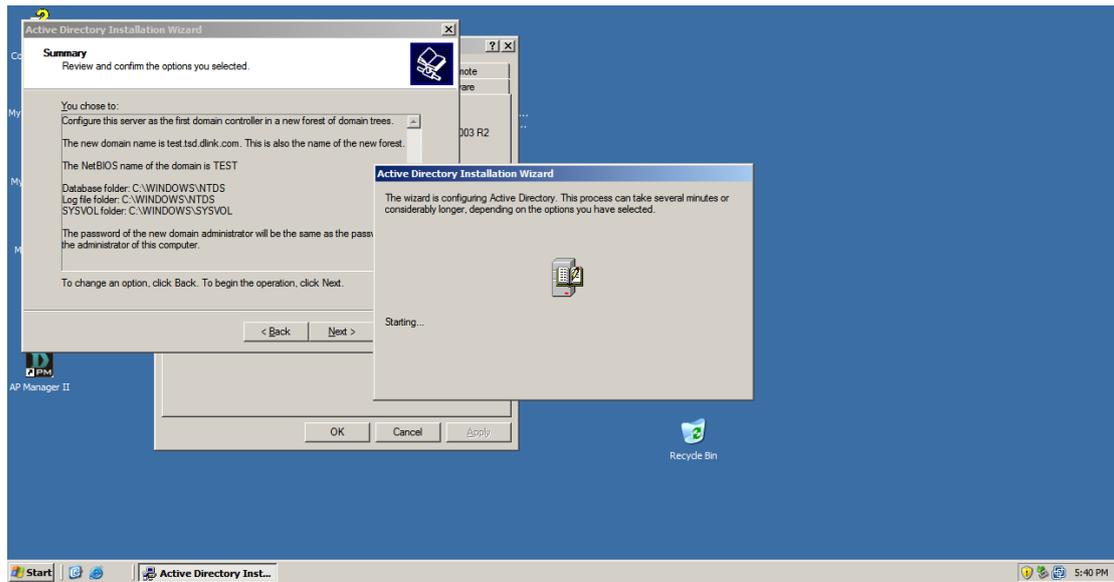






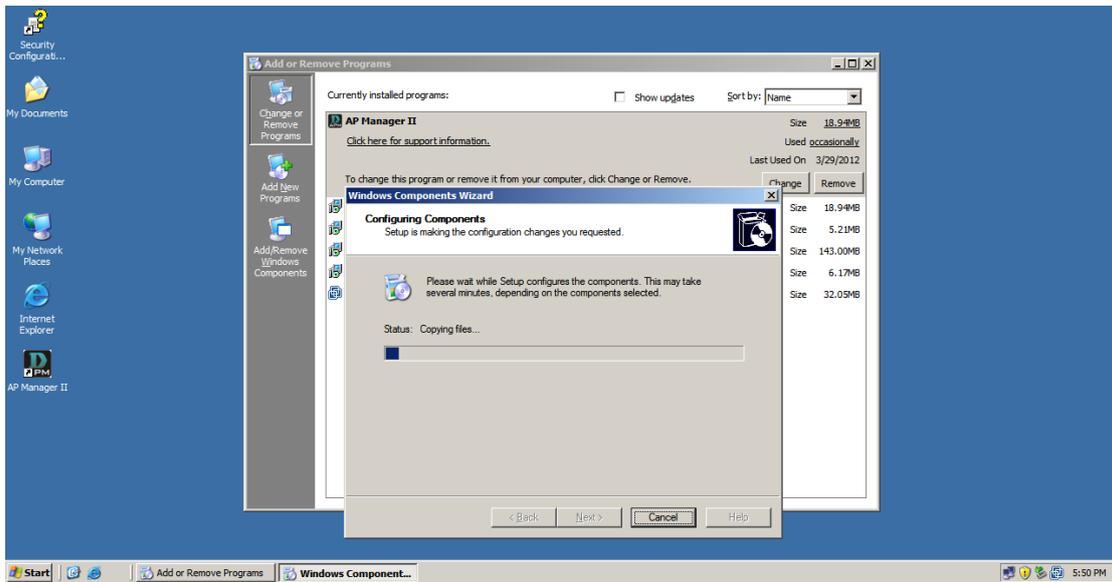
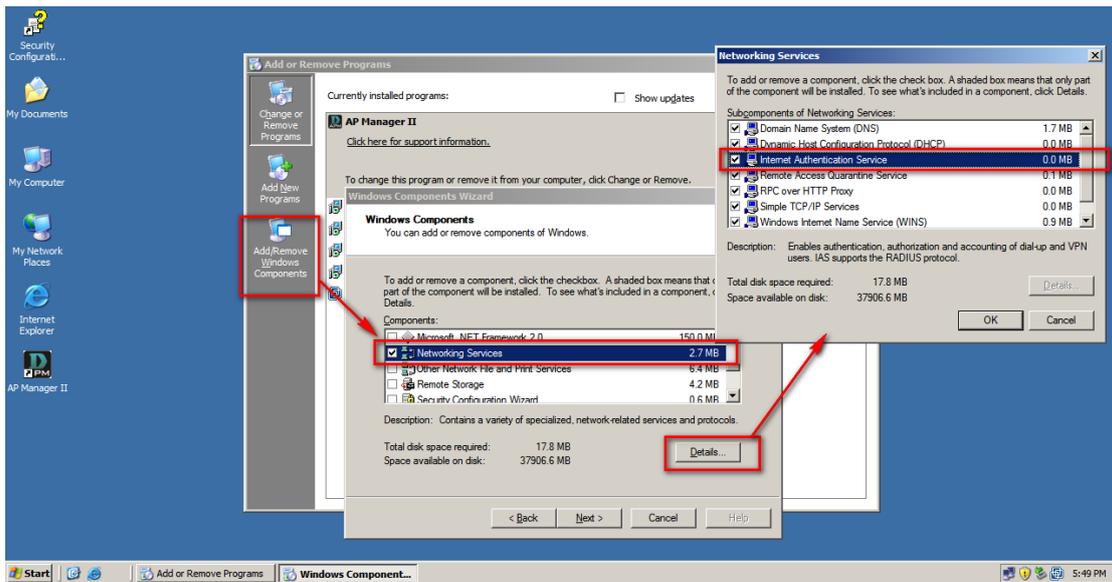


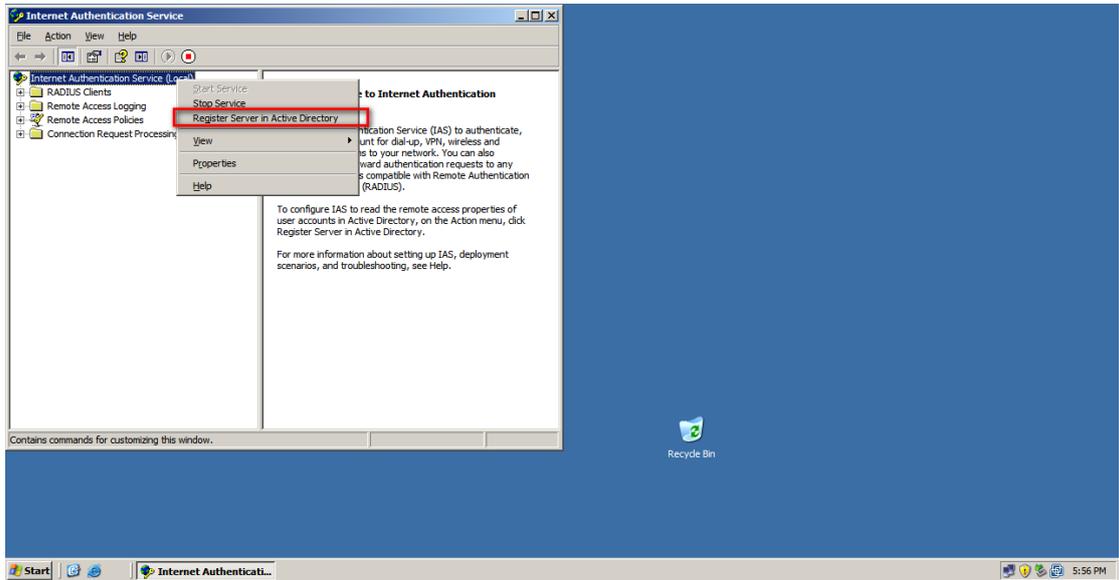
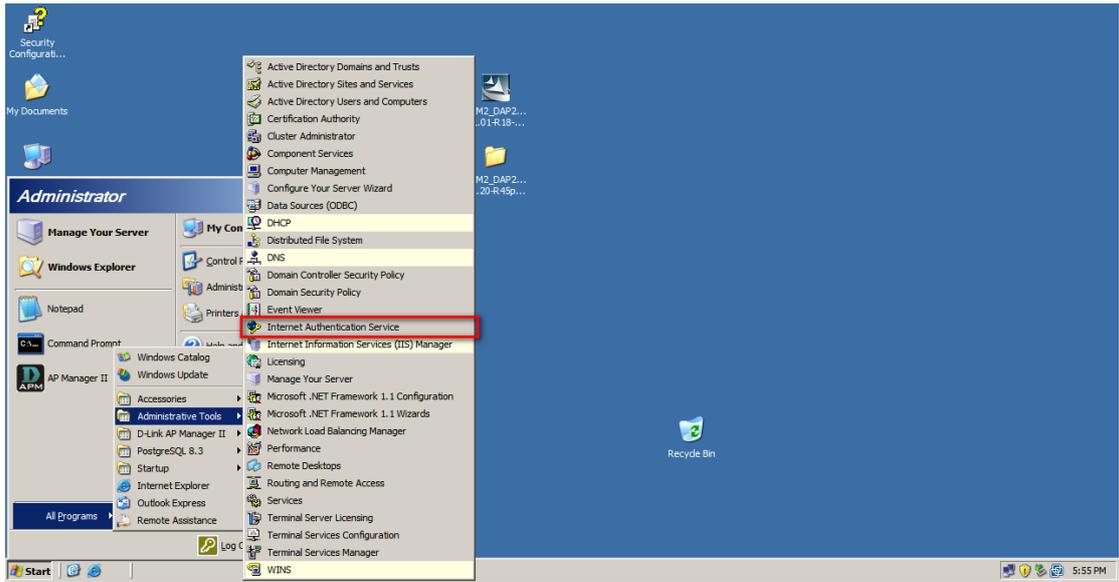


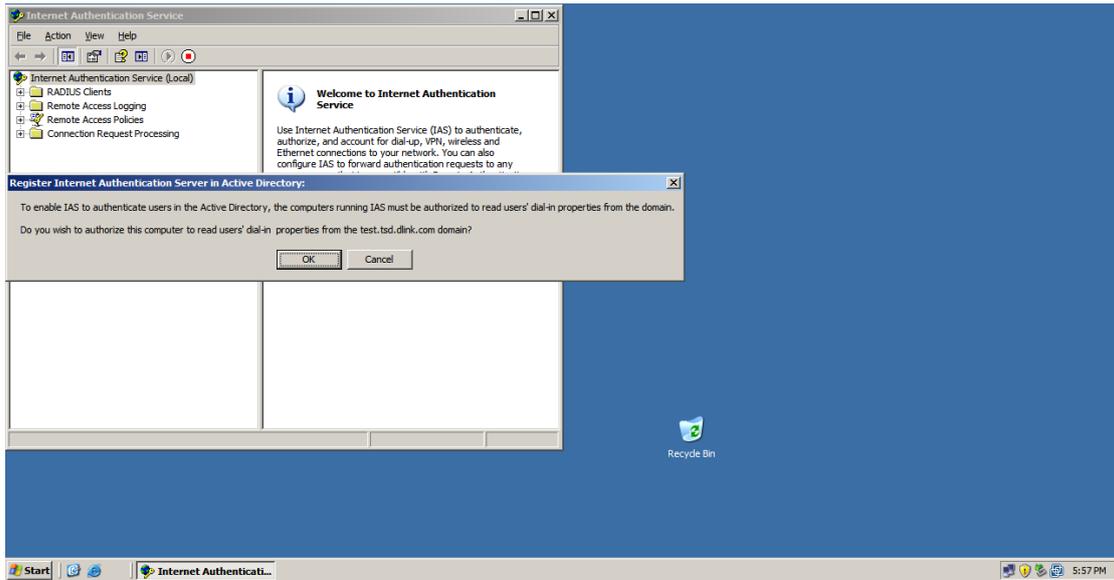


Click Finish button, Restart Windows

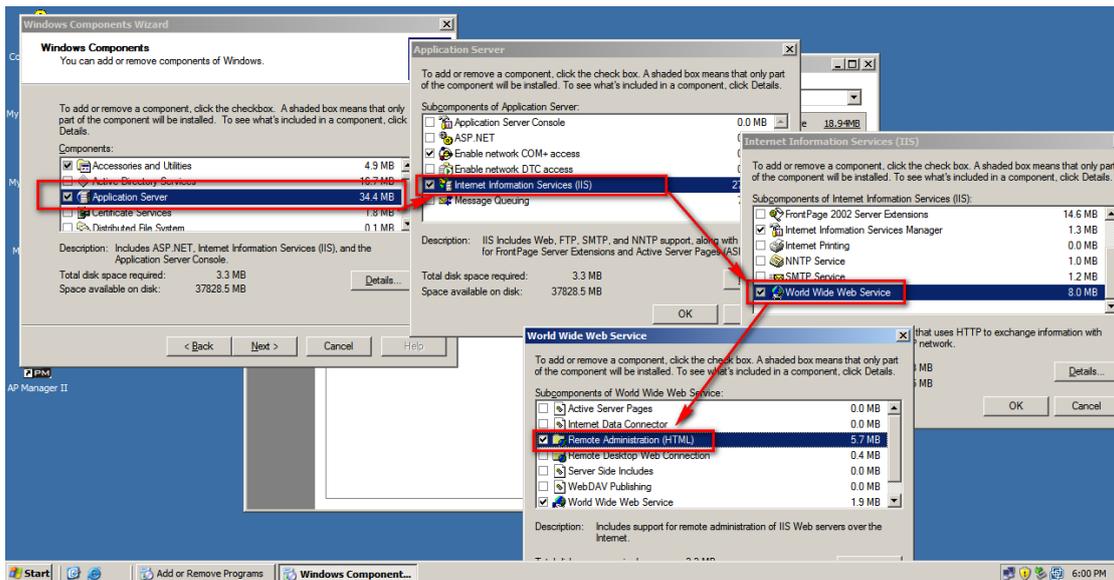
● Installing IAS (Internet Authentication Service)

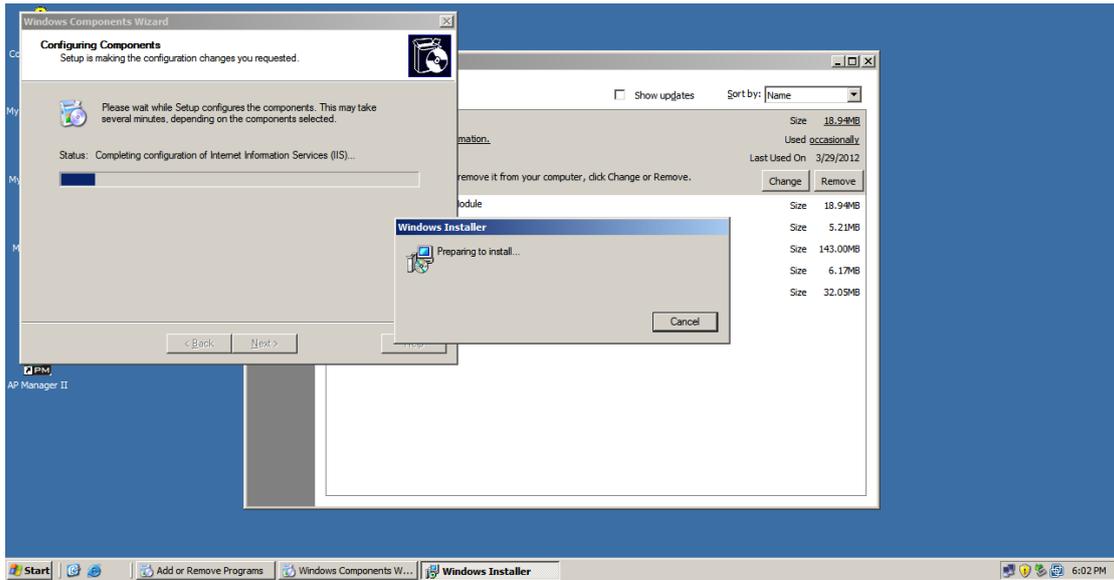






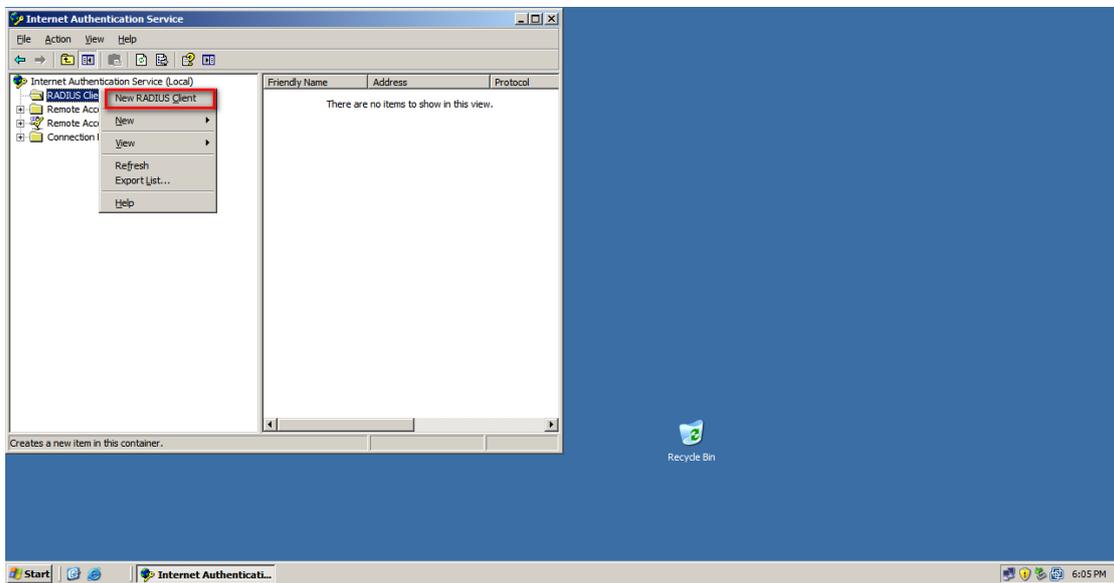
● Obtain a CA for IAS Server

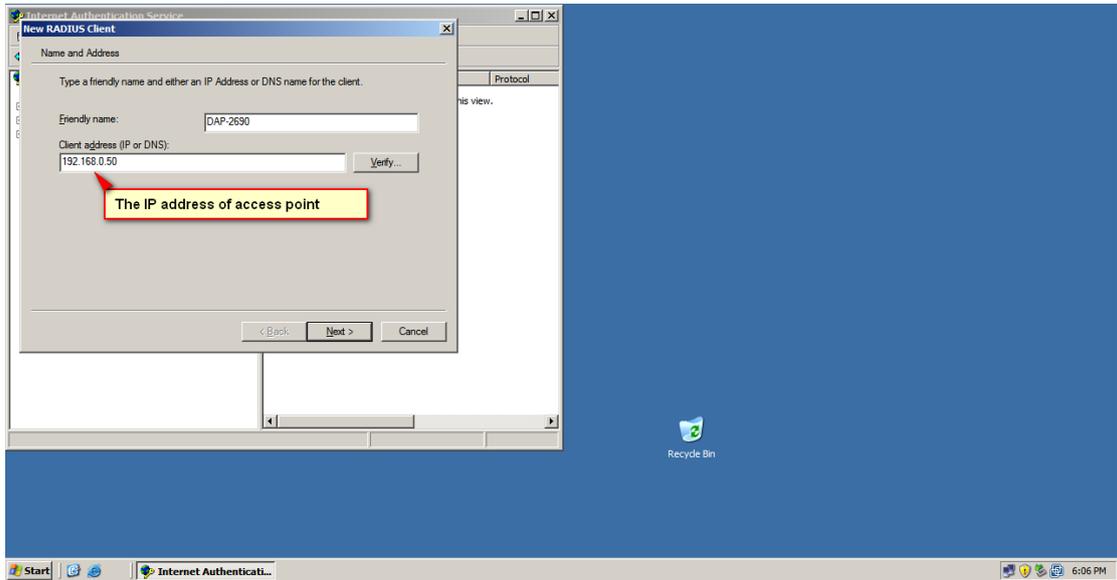
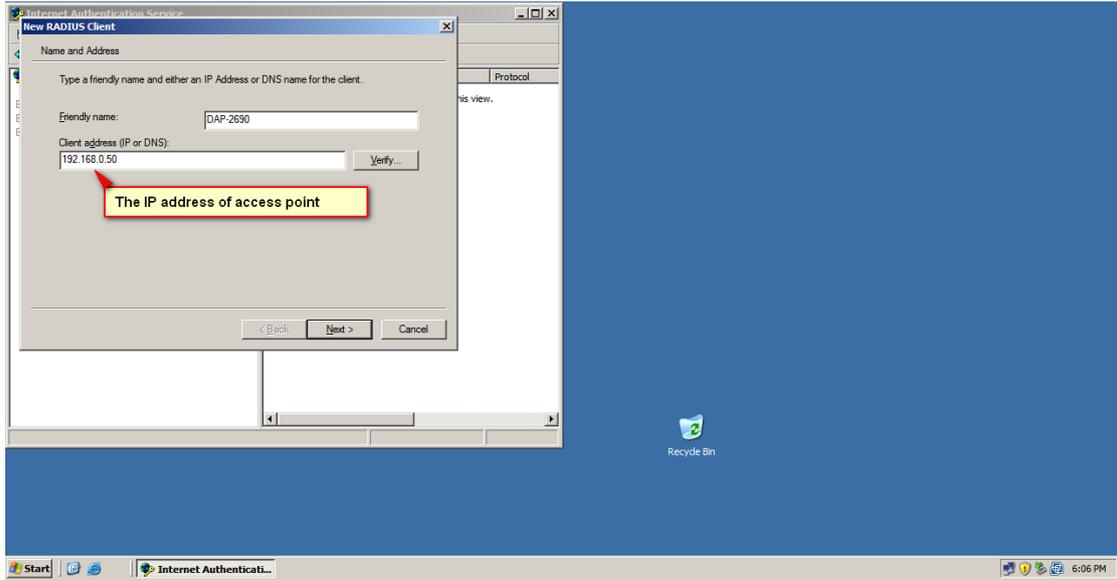


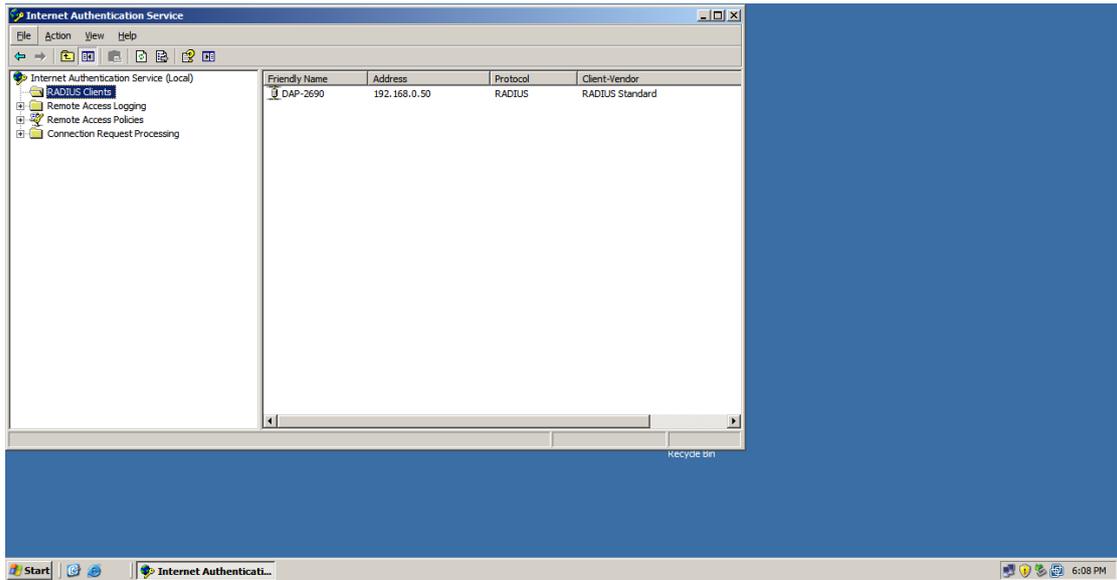


- **Configuration of IAS for RADIUS Server**

Add RADIUS client

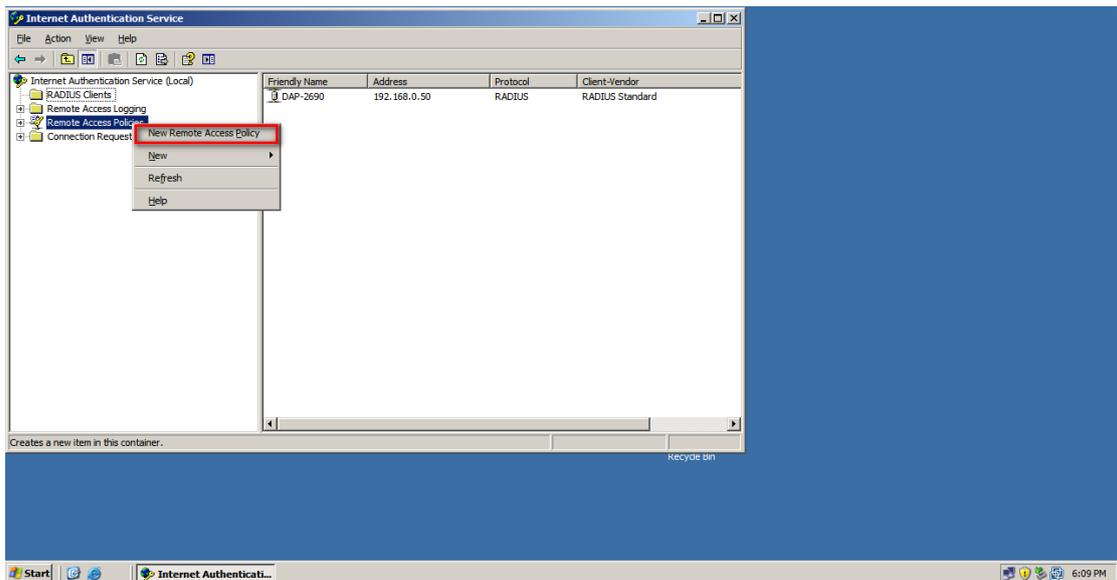


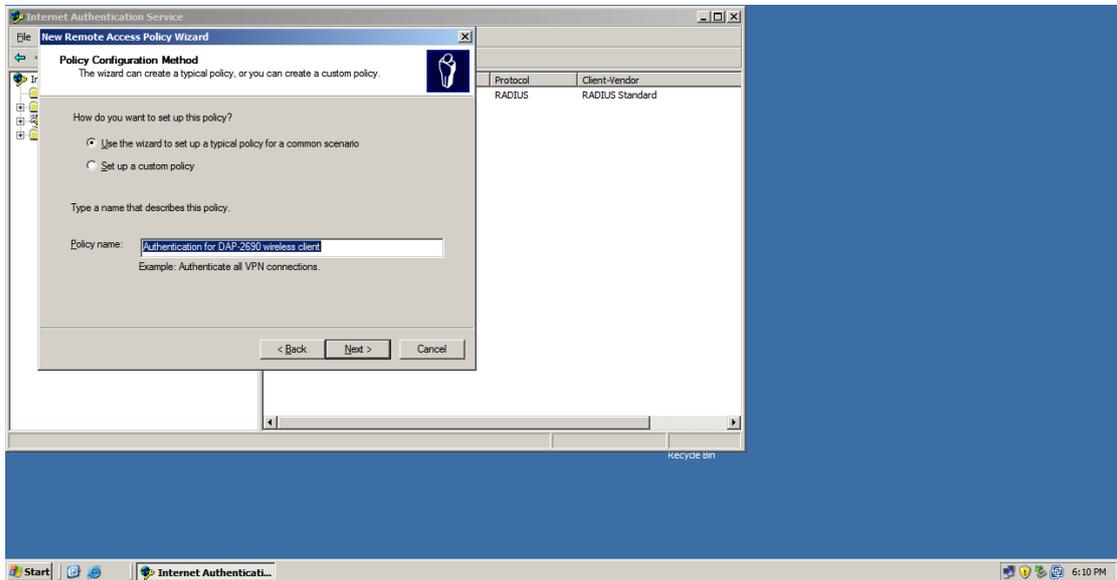
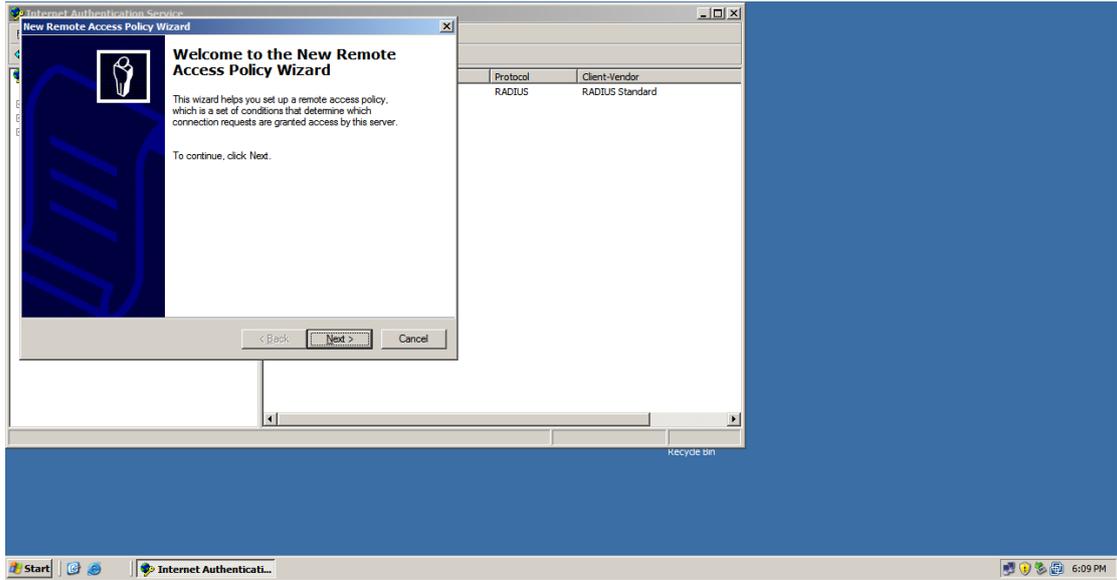


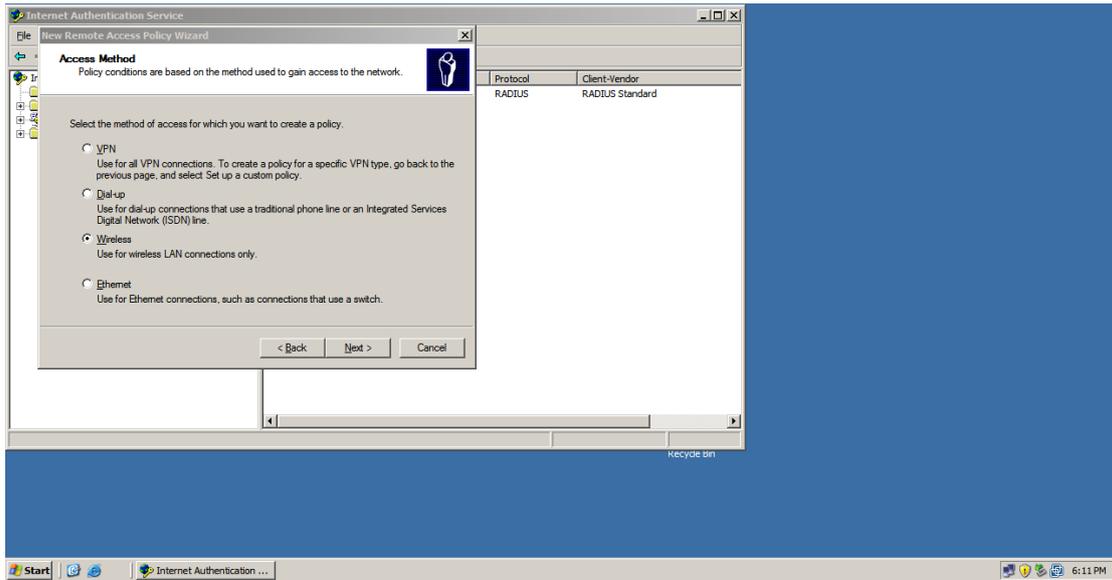


Finished

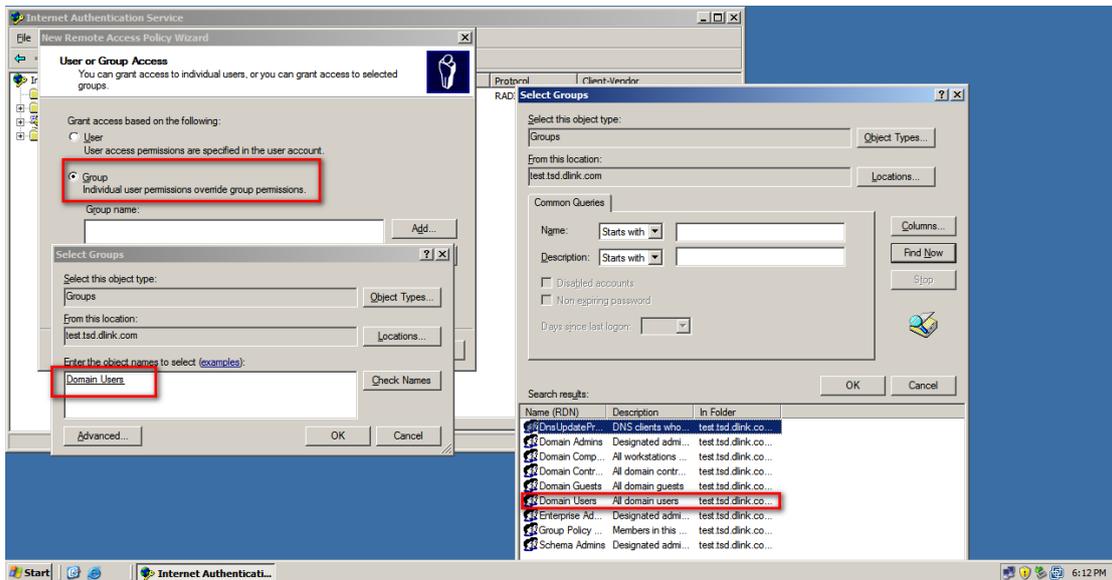
● Creating new remote access policy

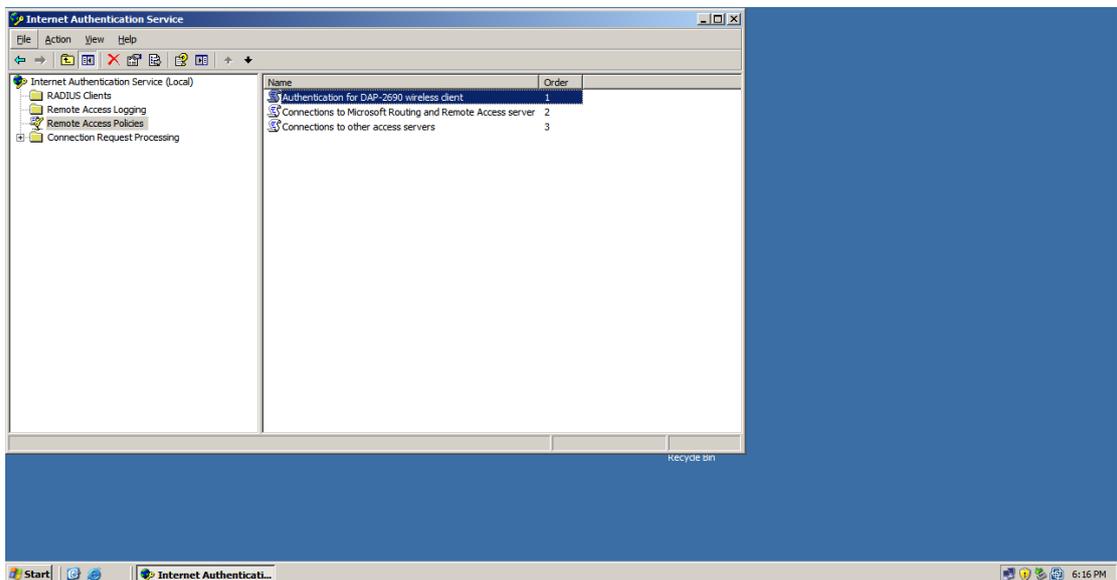
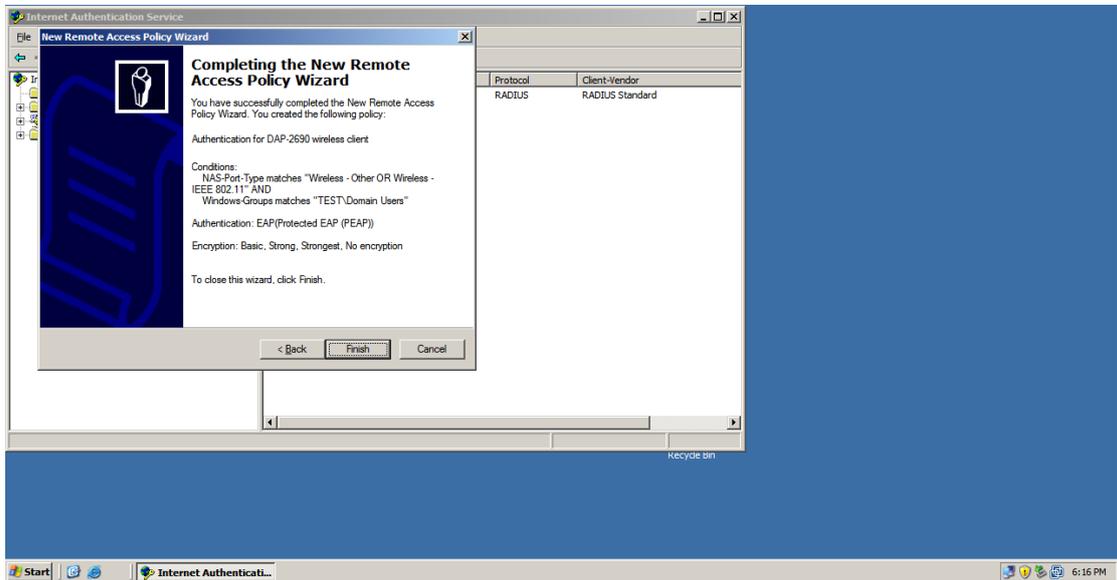
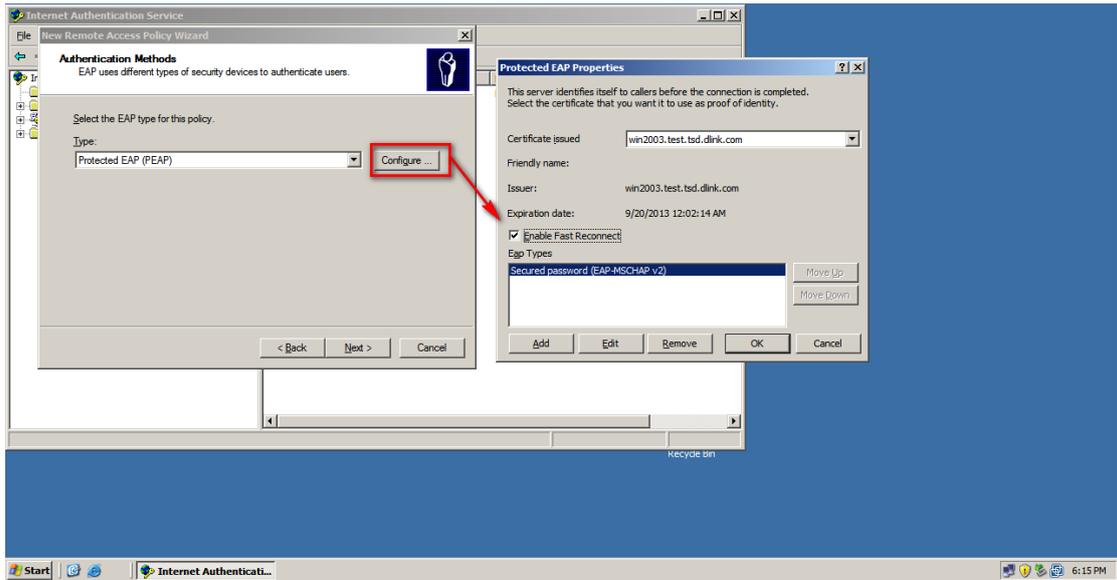






Chose the group or account for authenticating to connect wireless AP

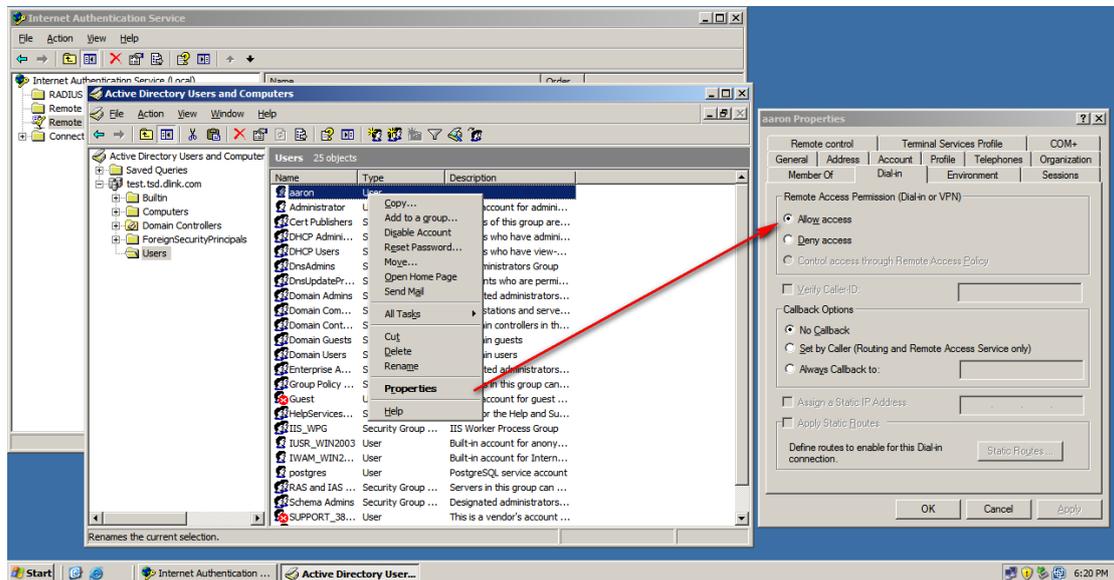




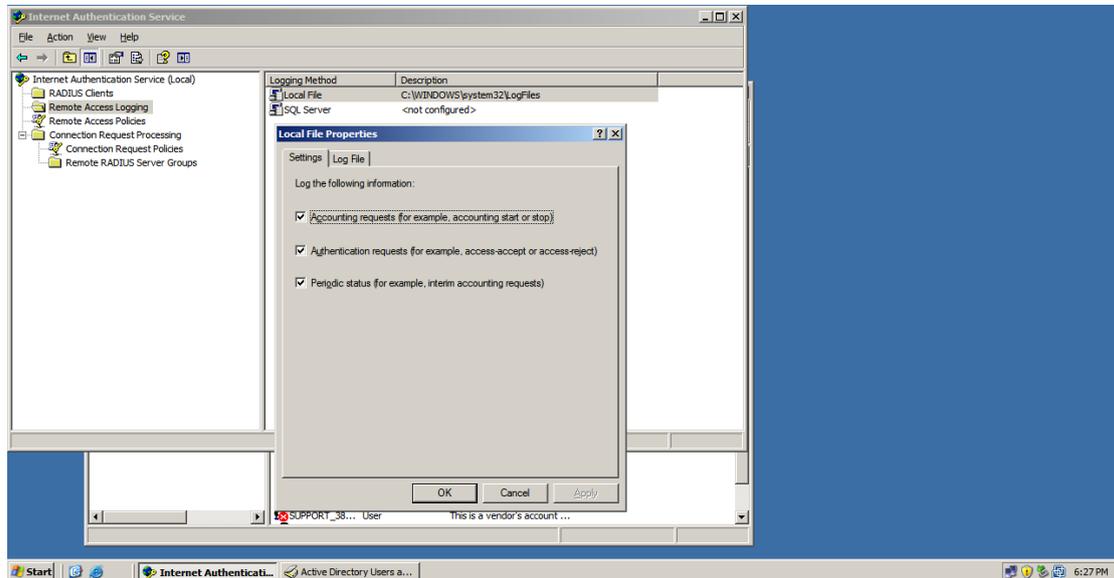
- **Creating Account for accessing wireless AP**

Add account from AD

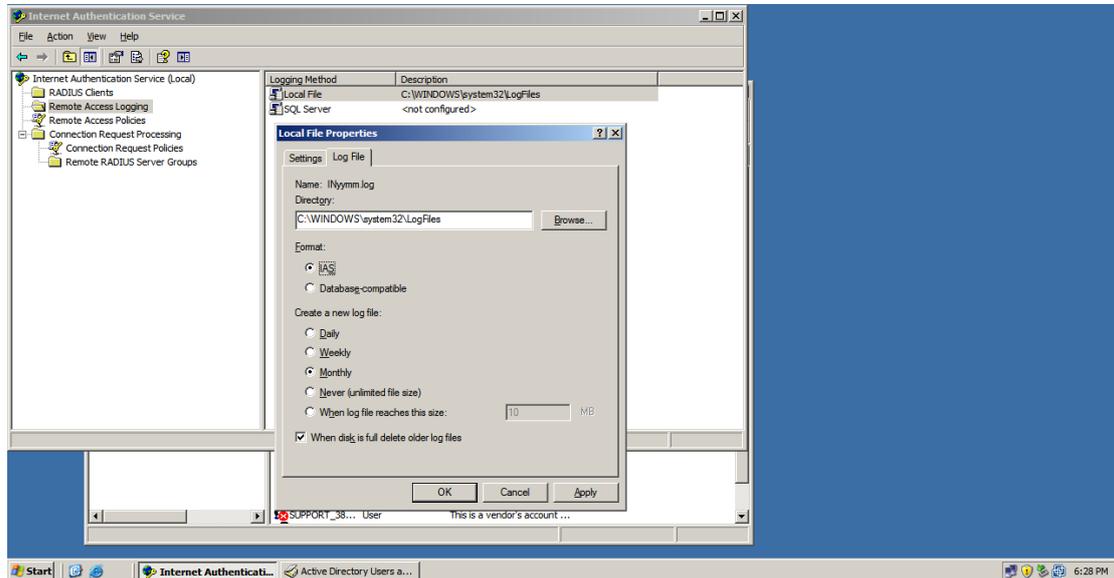
Modifying remote access permission to Allow access (Deny access by default)



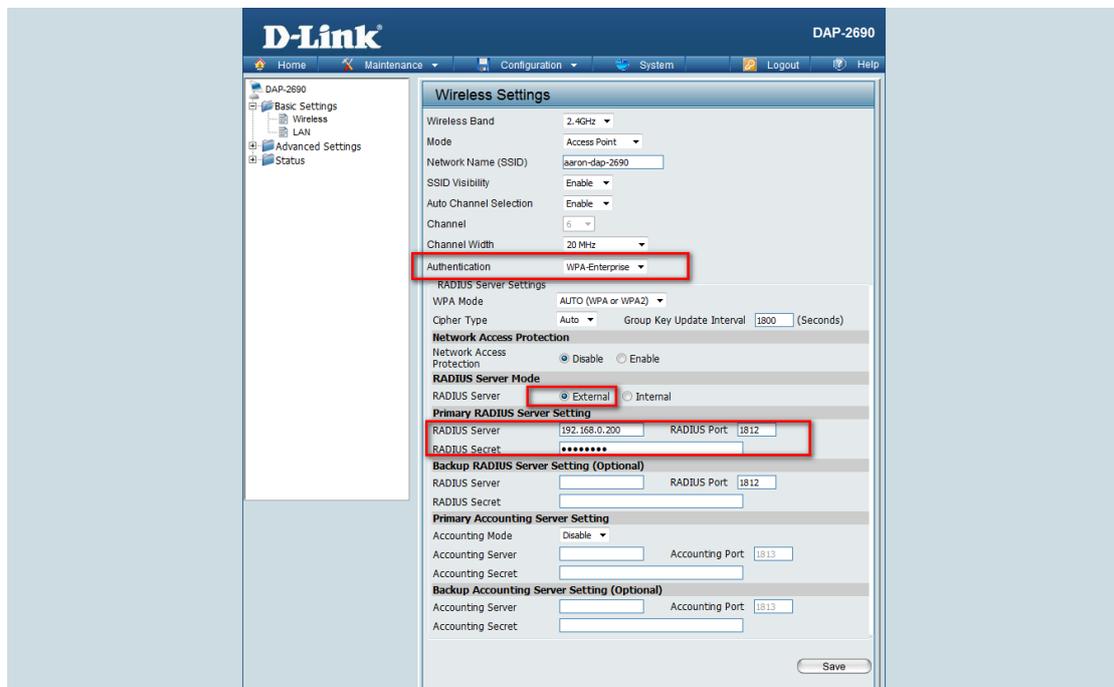
- **Log file for analyzing IAS authentication problem**



Log file directory

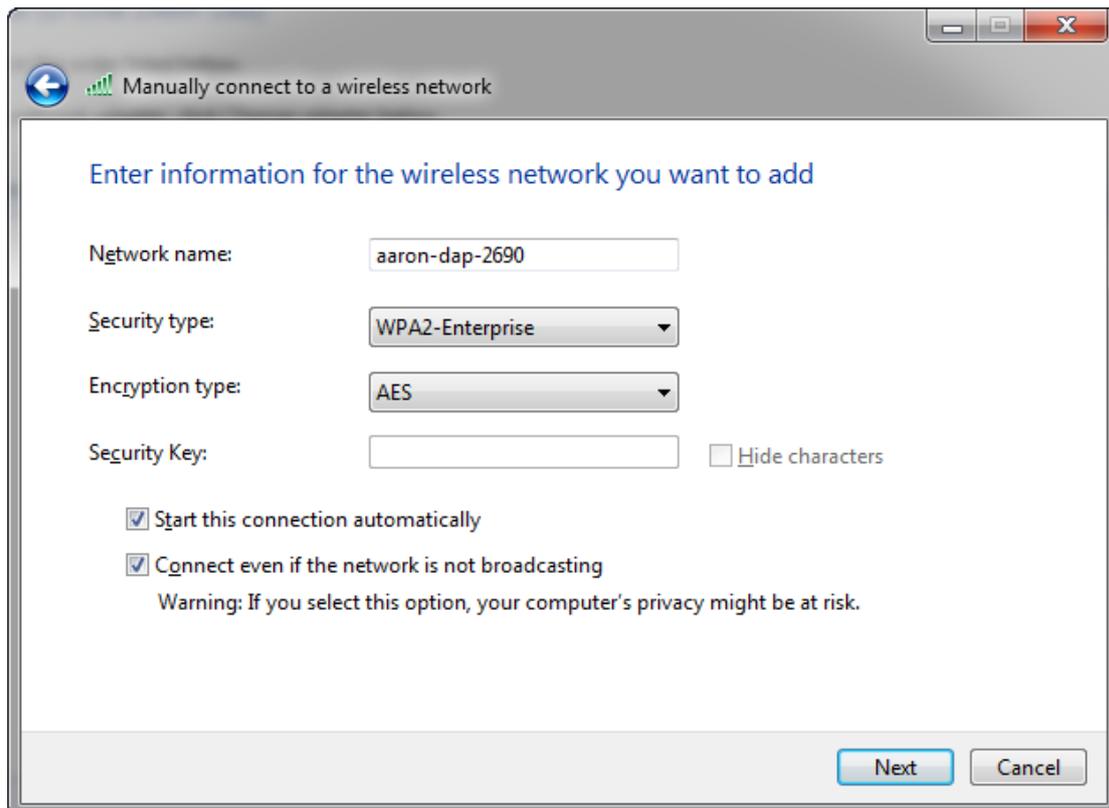
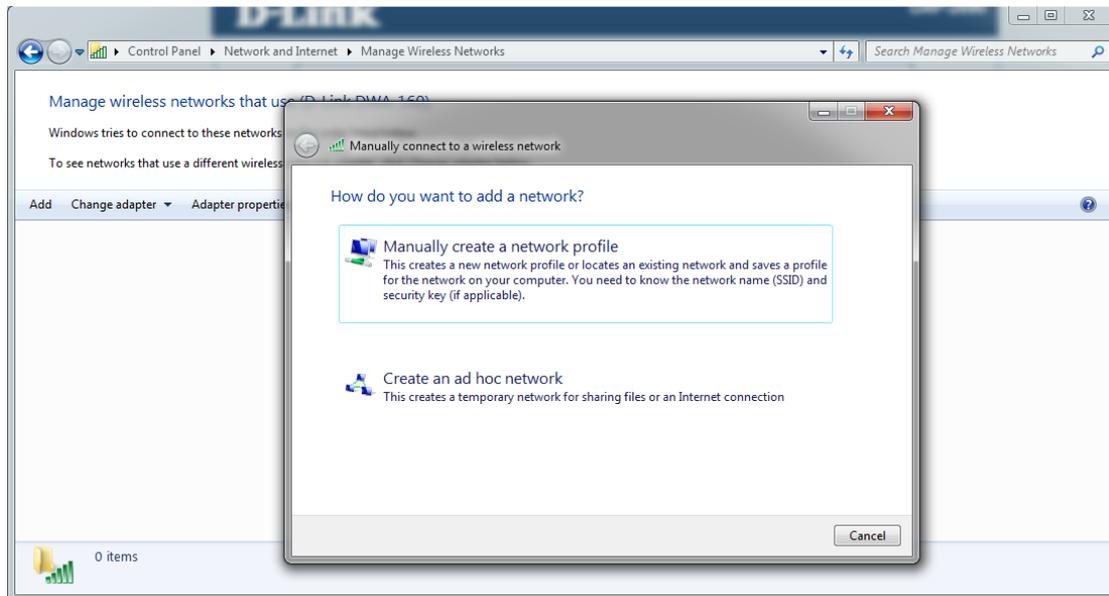


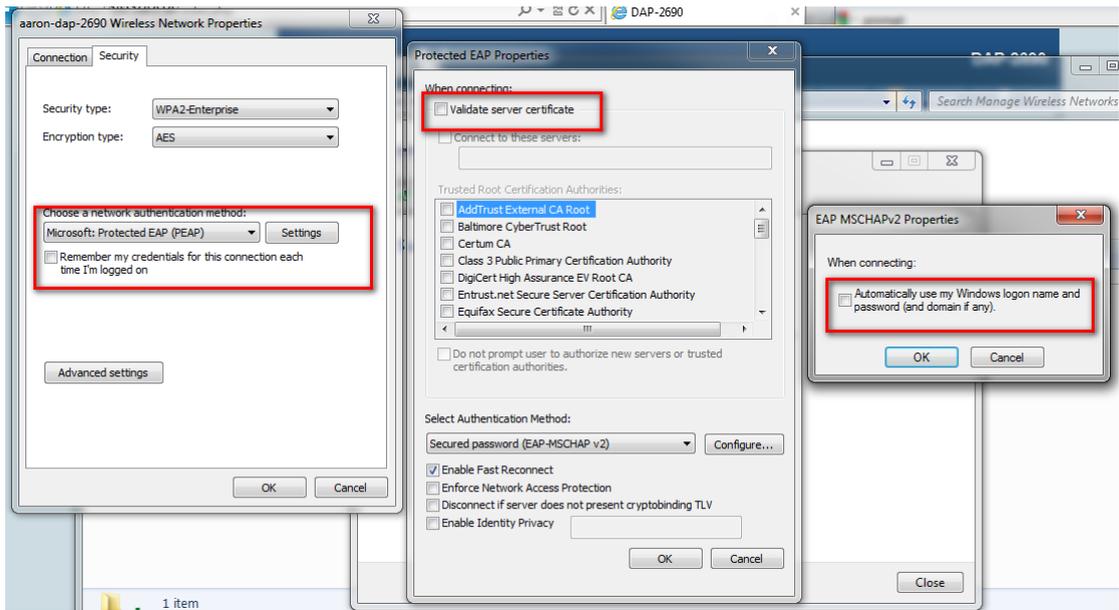
- **WAP/WPA2-enterprise configuration on access point**



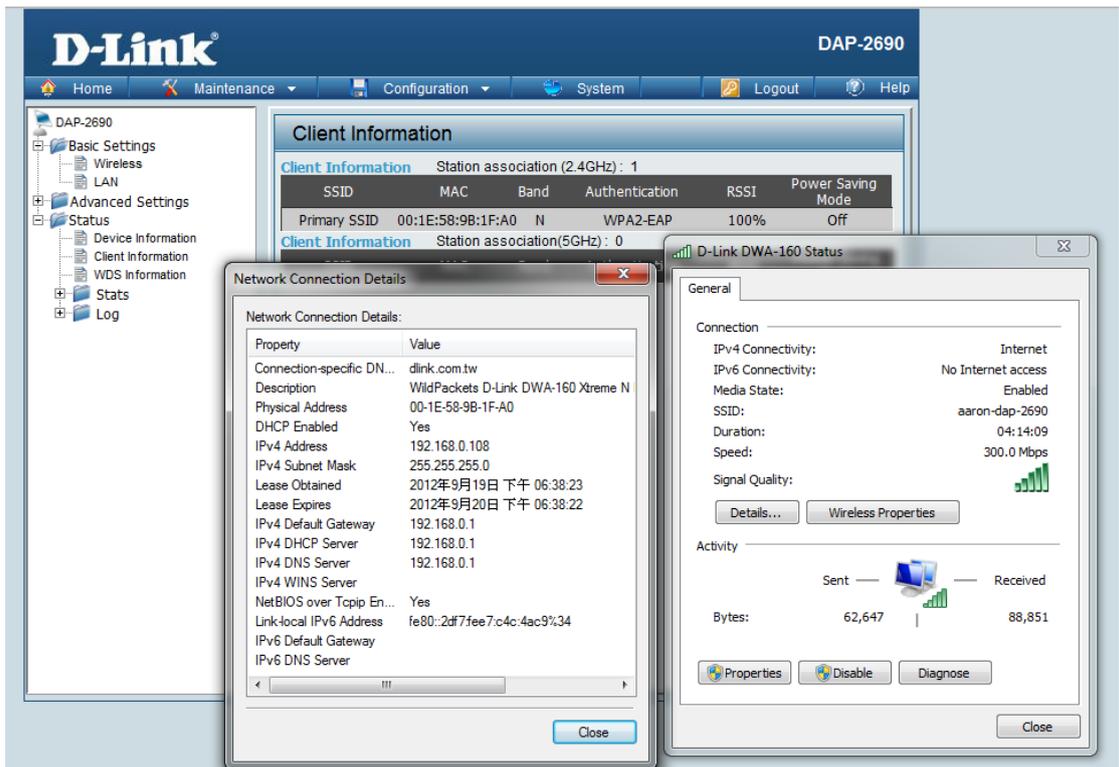
Wireless client configuration

Security type: WPA/WPA2-Enterprise, Encryption type: TKIP/AES

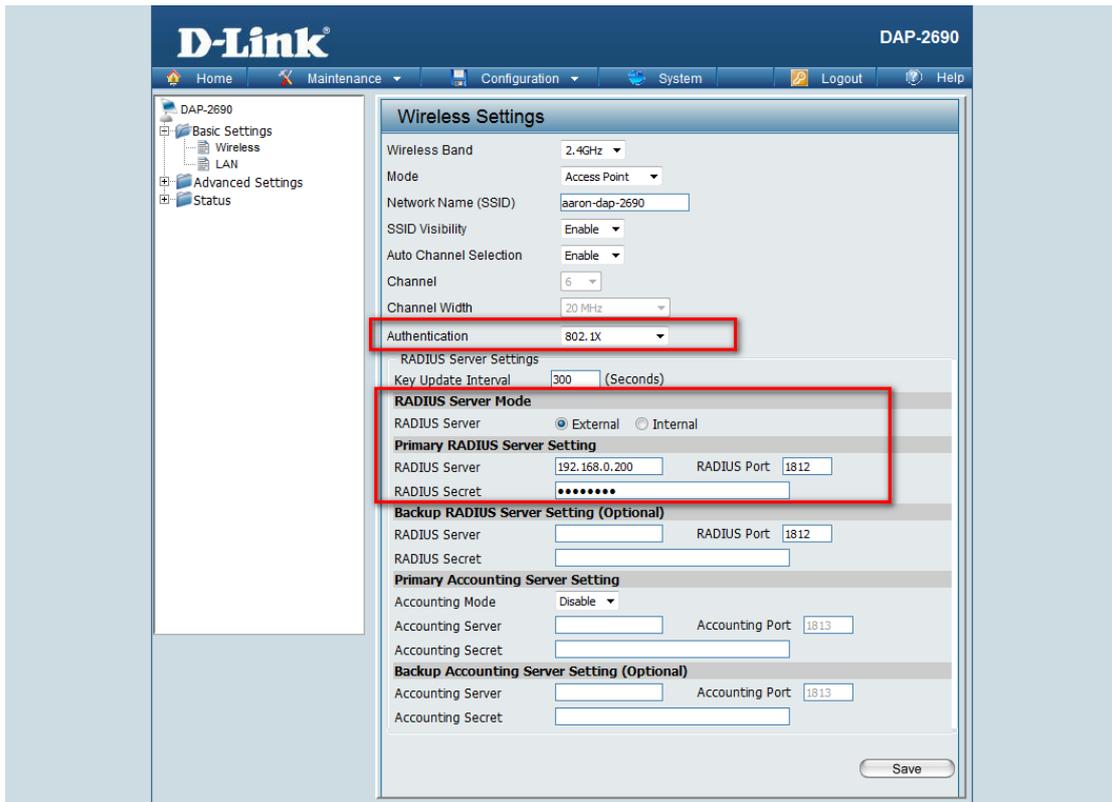




Client information on AP

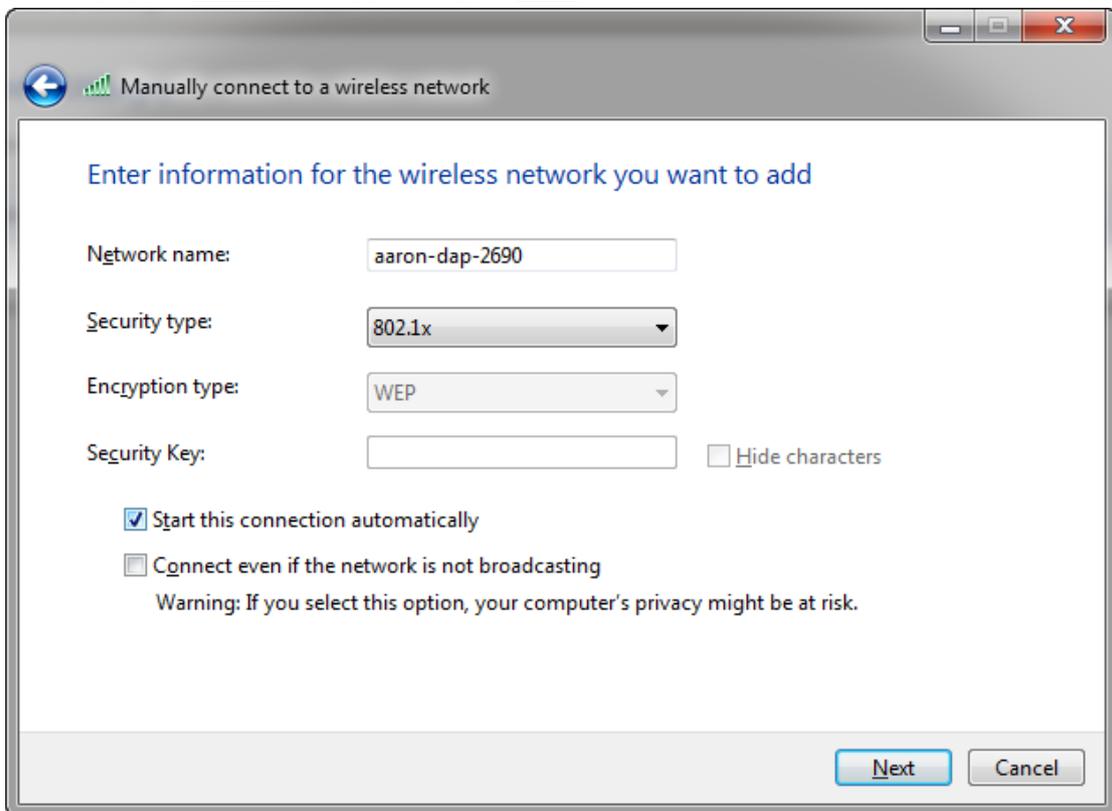


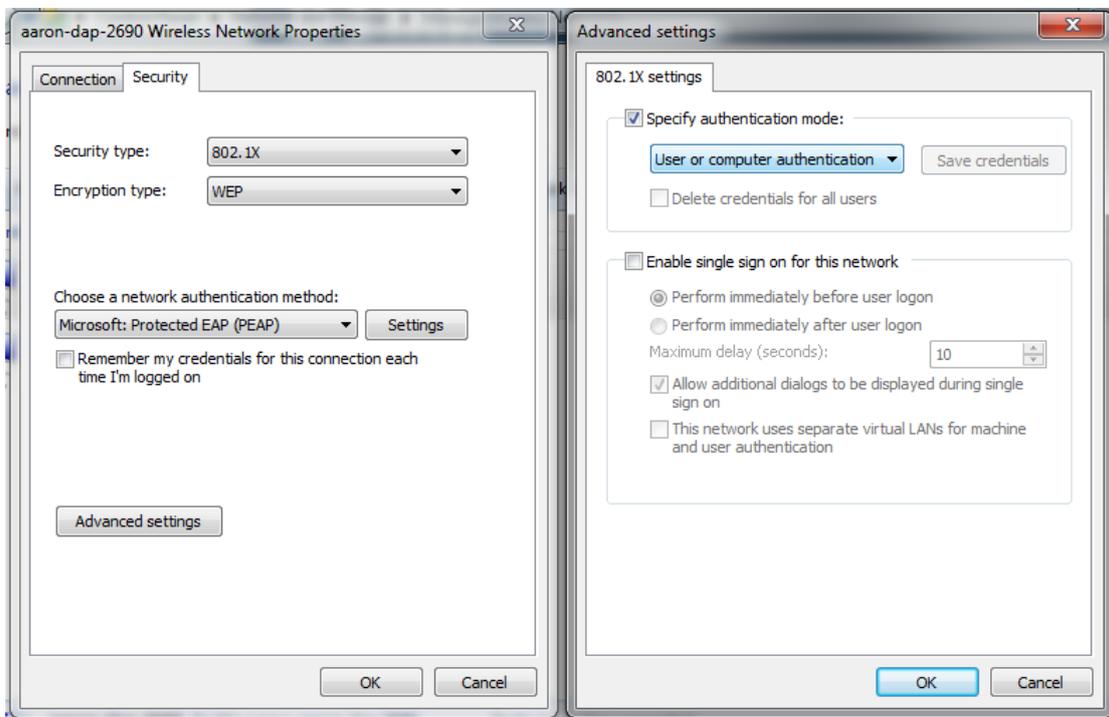
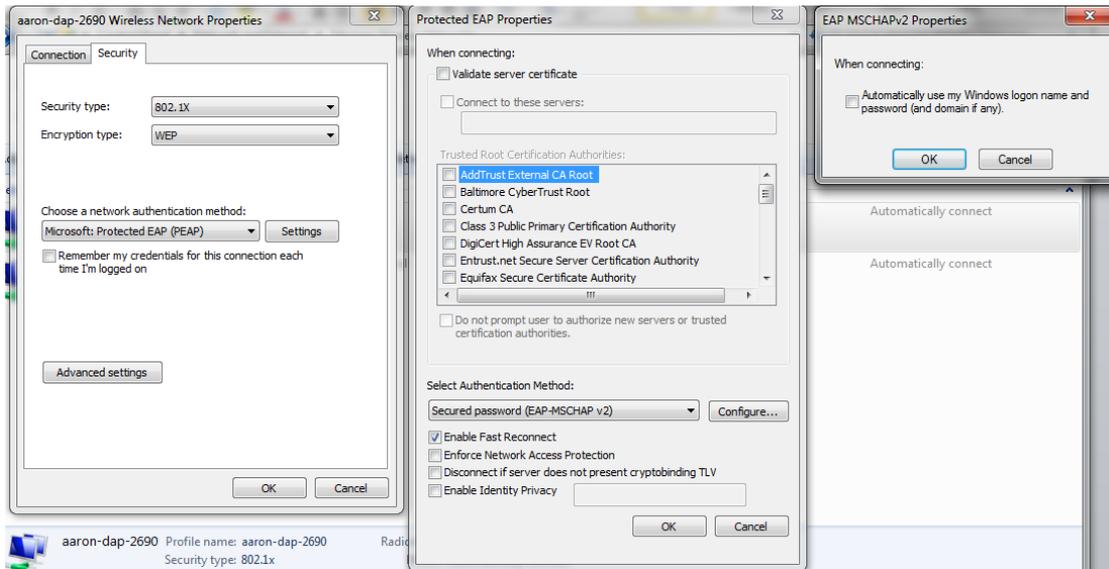
● 802.1x Authentication configuration on access point



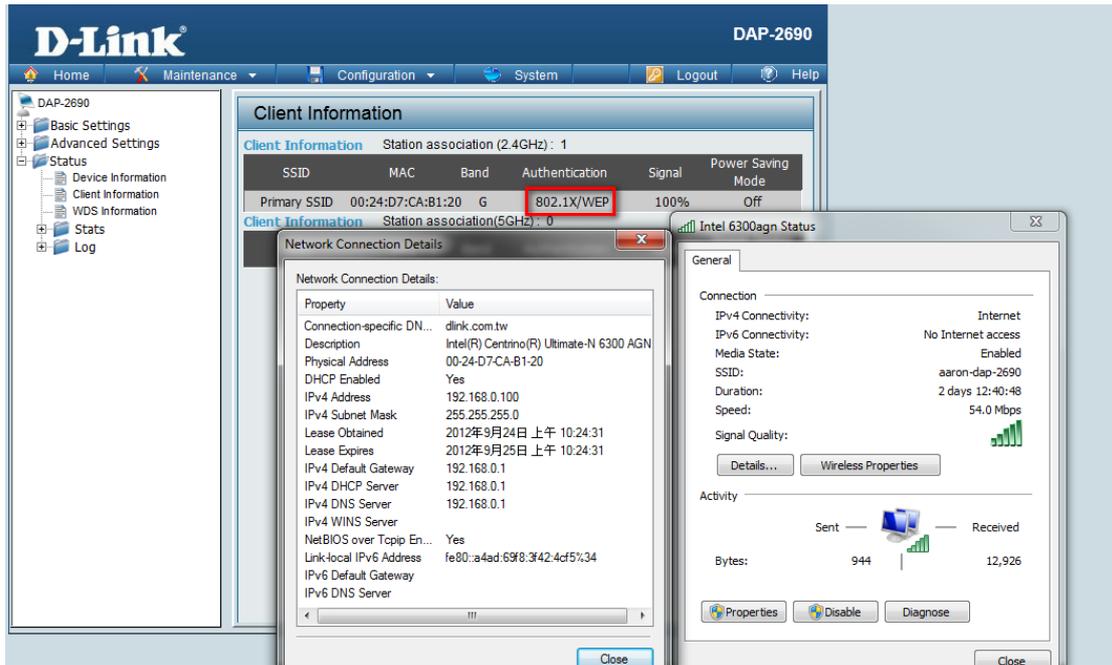
Wireless client configuration

Security type: 802.1x, Encryption type: WEP



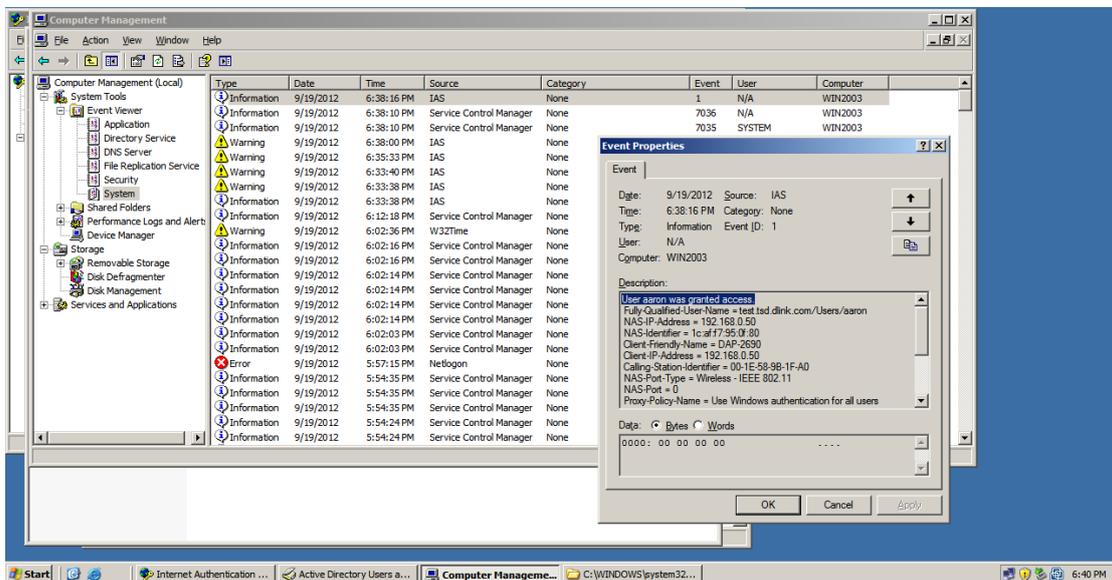


Client information on AP



Troubleshooting

-Event viewer via 2003 server



-Verifying and troubleshooting via log file

The screenshot displays a Windows desktop environment with several open windows:

- Internet Authentication Service (Local):** Shows configuration for logging methods. The 'Local File' method is selected, pointing to 'C:\WINDOWS\system32\LogFiles'. The 'SQL Server' method is noted as '<not configured>'. A table on the right lists users and their computers.
- File Explorer:** Shows the directory 'C:\WINDOWS\system32\LogFiles'. A table below the address bar lists files and folders:

Name	Size	Type	Date Modified	Attributes
Cluster		File Folder	3/18/2010 11:32 PM	
Shutdown		File Folder	3/18/2010 11:29 PM	
IN1209.log	4 KB	Text Document	9/19/2012 6:38 PM	A

- IN1209.log - Notepad:** Displays the contents of the log file, showing authentication events with timestamps, IP addresses, hostnames, and user names.

```
192.168.0.50, host/AaronJhang-T420, 09/19/2012, 18:33:38, IAS, WIN2003, 4, 192.168.0.50, 32, 1c:af:f7:95:0f:80, 5, 0, 30, 1c-AF-F7-95-0F-80:aaror
192.168.0.50, host/AaronJhang-T420, 09/19/2012, 18:33:38, IAS, WIN2003, 25, 311 1 192.168.0.200 09/19/2012 09:54:27 1, 4127, 5, 4130, TEST\host
192.168.0.50, Aaron Jhang, 09/19/2012, 18:33:40, IAS, WIN2003, 4, 192.168.0.50, 32, 1c:af:f7:95:0f:80, 5, 0, 30, 1c-AF-F7-95-0F-80:aaron-dap-269C
192.168.0.50, Aaron Jhang, 09/19/2012, 18:33:40, IAS, WIN2003, 25, 311 1 192.168.0.200 09/19/2012 09:54:27 2, 4127, 5, 4130, TEST\Aaron Jhang, 4
192.168.0.50, host/AaronJhang-T420, 09/19/2012, 18:35:33, IAS, WIN2003, 4, 192.168.0.50, 32, 1c:af:f7:95:0f:80, 5, 0, 30, 1c-AF-F7-95-0F-80:aaror
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