

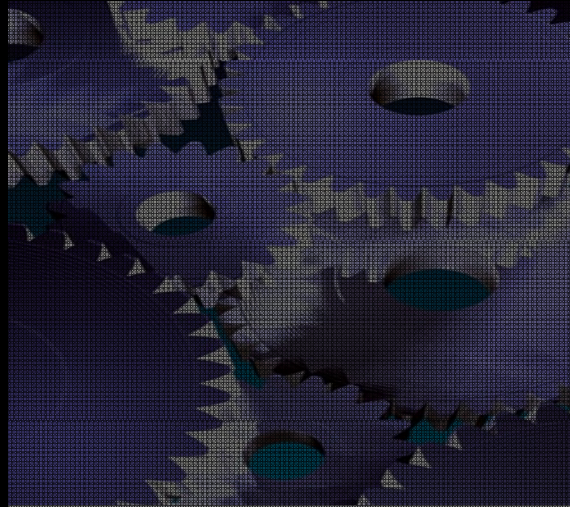


진화하는 IP Convergence 환경을 위한 차세대 통합 VPN 솔루션

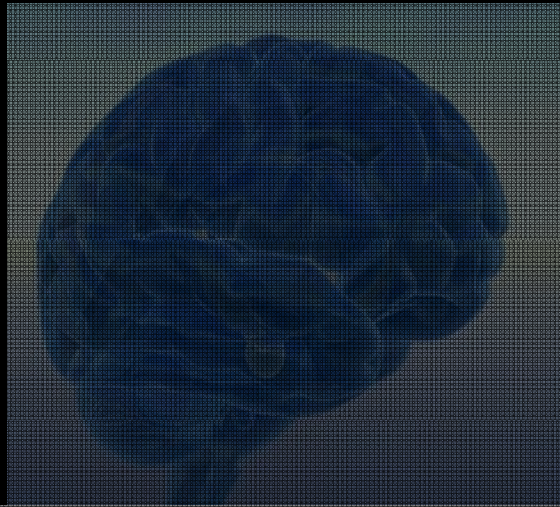


이 창 주 , changjoo@cisco.com
Cisco Systems Korea

Cisco SDN (Self Defending Network) 3.0



Integrated



Adaptive



Collaborative

Cisco Self Defending Network

자가 방어 네트워크

Cisco Security Summit 2008

VPN Solution in Cisco SDN 3.0



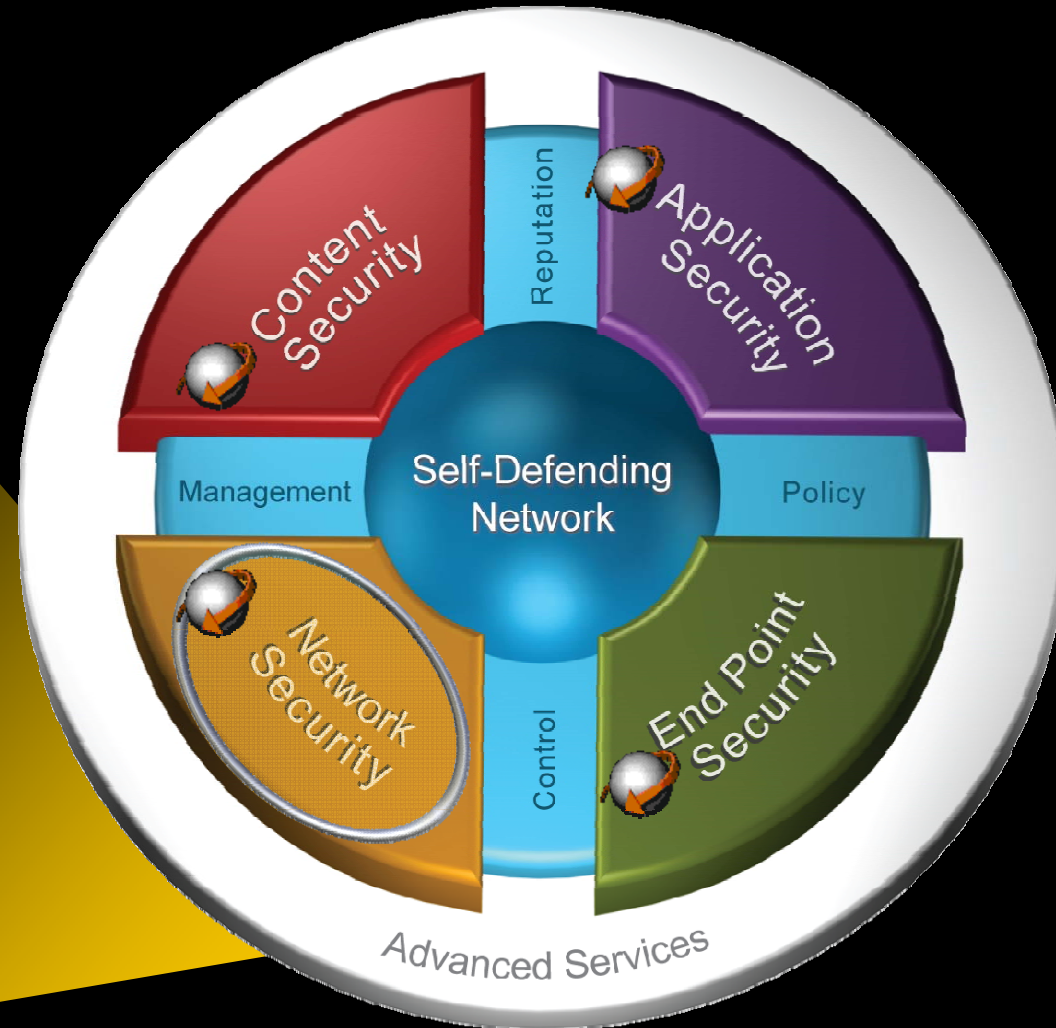
Network Security

네트워크 인프라보안 강화

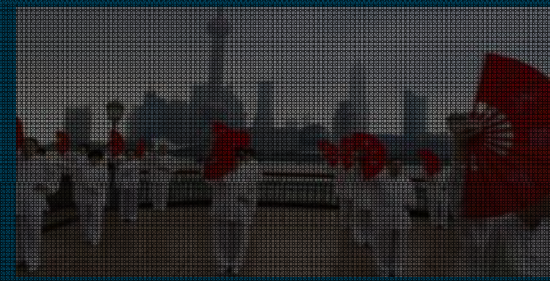
데이터 / 음성 / 비디오

안전한 커뮤니케이션

Cisco VPN Solutions



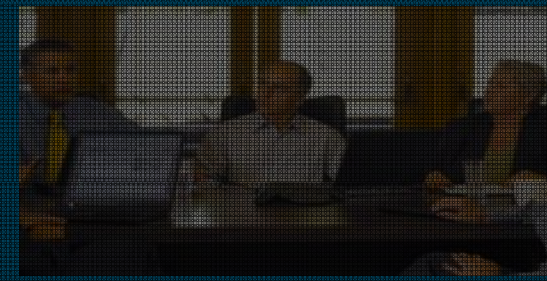
비즈니스 환경의 변화



세계화, 국제화



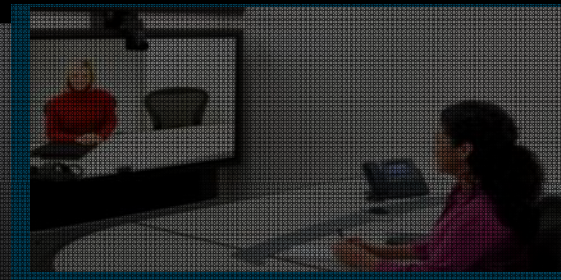
Data Center로의
IT 자원 통합



Collaboration,
Web 2.0



모바일 근무자



비디오
커뮤니케이션



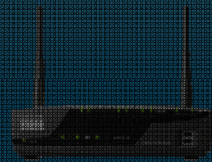
Cisco VPN Solution : Site-to-Site VPN



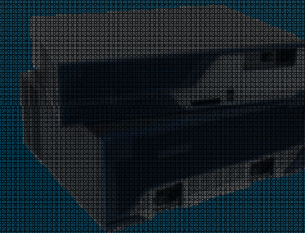
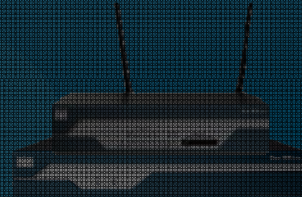
Cisco Site-to-Site VPN Solutions



Remote-Site 제품군

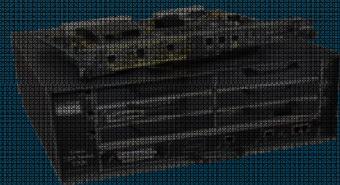


Cisco 800

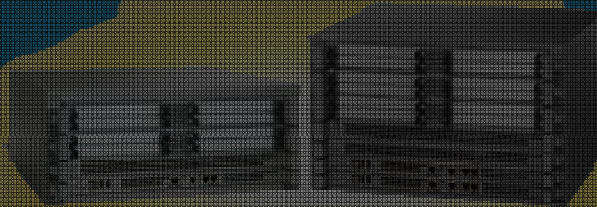


Cisco 1800/2800/3800

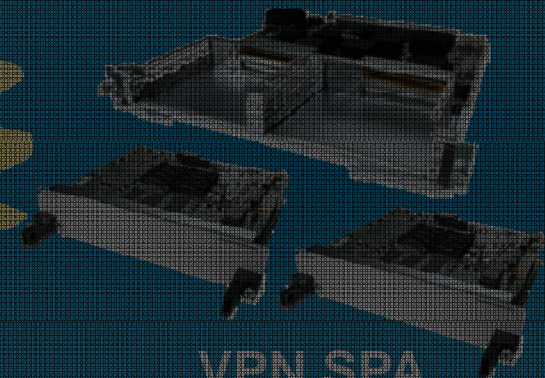
Head-End 제품군



Cisco 7200



ASR 1000



VPN SPA
(Cisco 7600/Catalyst 6500)

Head-End 용 Cisco ASR 1000 Series



10Gbps System Performance!!



세계 최고 성능의 네트워크 프로세서

- 강력한 Cisco IOS 기반
- 하드웨어 VPN 암호화 지원
- 통합된 QoS 지원
- Instant Service-On
- 모듈화된 아키텍처
- 완벽한 시스템 이중화(SW/HW)

최대 3.5Gbps
VPN Performance

ASR 1000

Cisco Security Summit 2008

Remote-Site 용 Cisco ISR Series



Cisco 3800



Cisco 1800/2800



200Mbps
Performance!!

CISCO 800

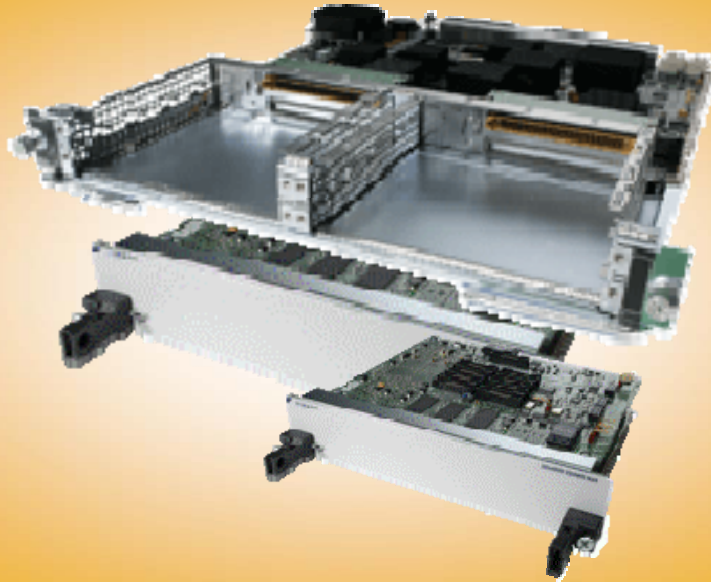


- 강력한 Cisco IOS 기반
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- 통합된 QoS 지원
- 모듈화된 아키텍처

SP 및 대형 VPN Head-End 용 VPN-SPA





SIP
(SPA Interface processor)



VPN-SPA
(Shared Port Adapter)

최대 25Gbps
VPN Performance

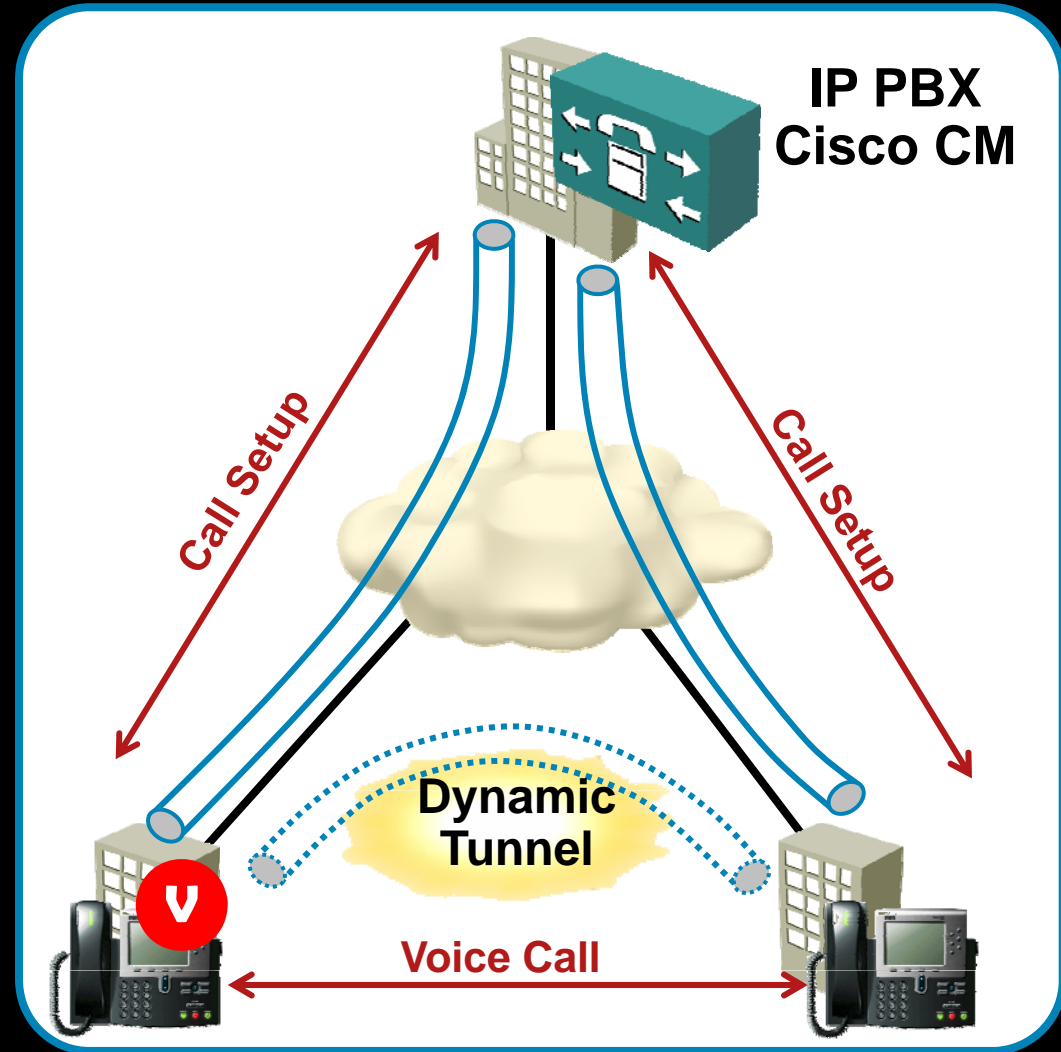
-  Cisco 7600/Catalyst 6500
-  하드웨어 VPN 암호화 지원
-  SPA 1개당 2.5G 처리 가능
-  최대 10개의 SPA 장착



1. DMVPN(Dynamic Multipoint VPN)

지시간 통신이 많은
어플리케이션 사용(예. UC)

- 지시간 통신 발생 시
Dynamic Tunnel 생성
- Head-end의 부담 및
서비스 지연 현상 최소화



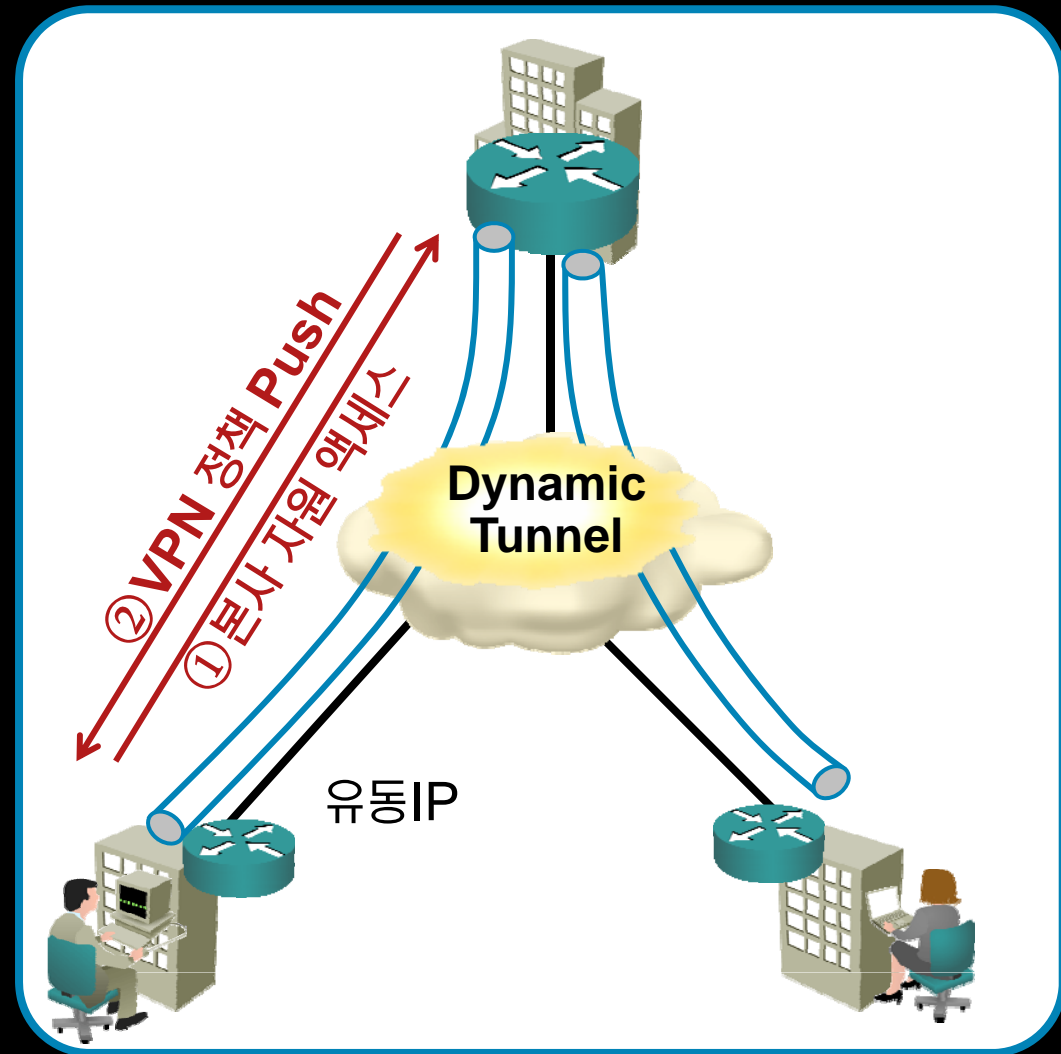
Cisco IOS 기반의 유연한 VPN 구축

2. Easy-VPN



유동 IP를 할당 받는 xDSL 서비스 이용 시

- Remote-site의 관리 용이
- Remote-site의 수가 늘어나도 Head-end의 설정 변경 없음
- Remote-Access 방식과 통합하여 단일화된 운영 가능

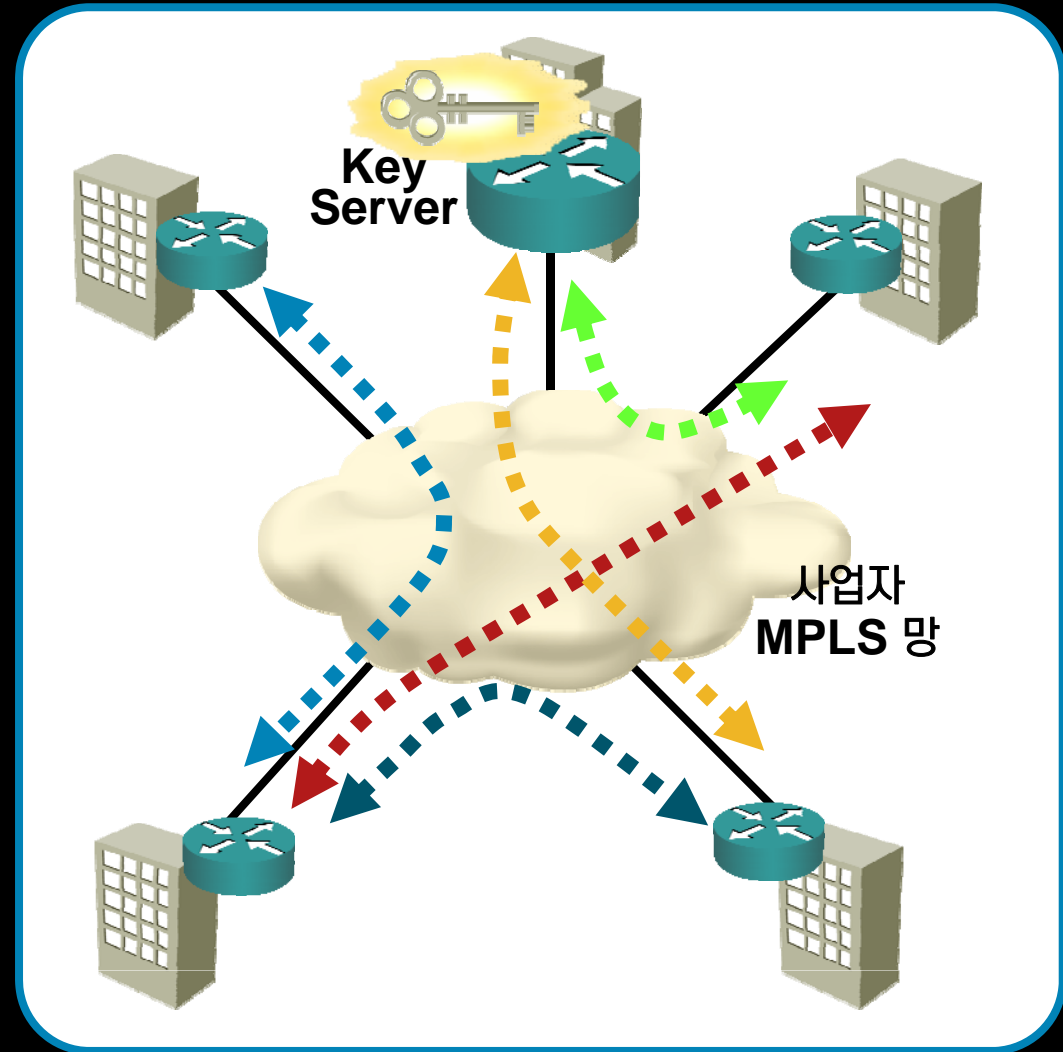


3. GET VPN(Group Encrypted Transport VPN)



WAN 트래픽 암호화

- MPLS VPN 서비스 이용 시 사업자 망 내에서도 완벽한 기밀성 유지
- Key Server를 이용한 Dynamic Key 관리 방식
- Tunnel-less 기반의 Any-to-Any 연결
- 가입자 기반의 GET VPN
- 사업자 기반의 GET VPN



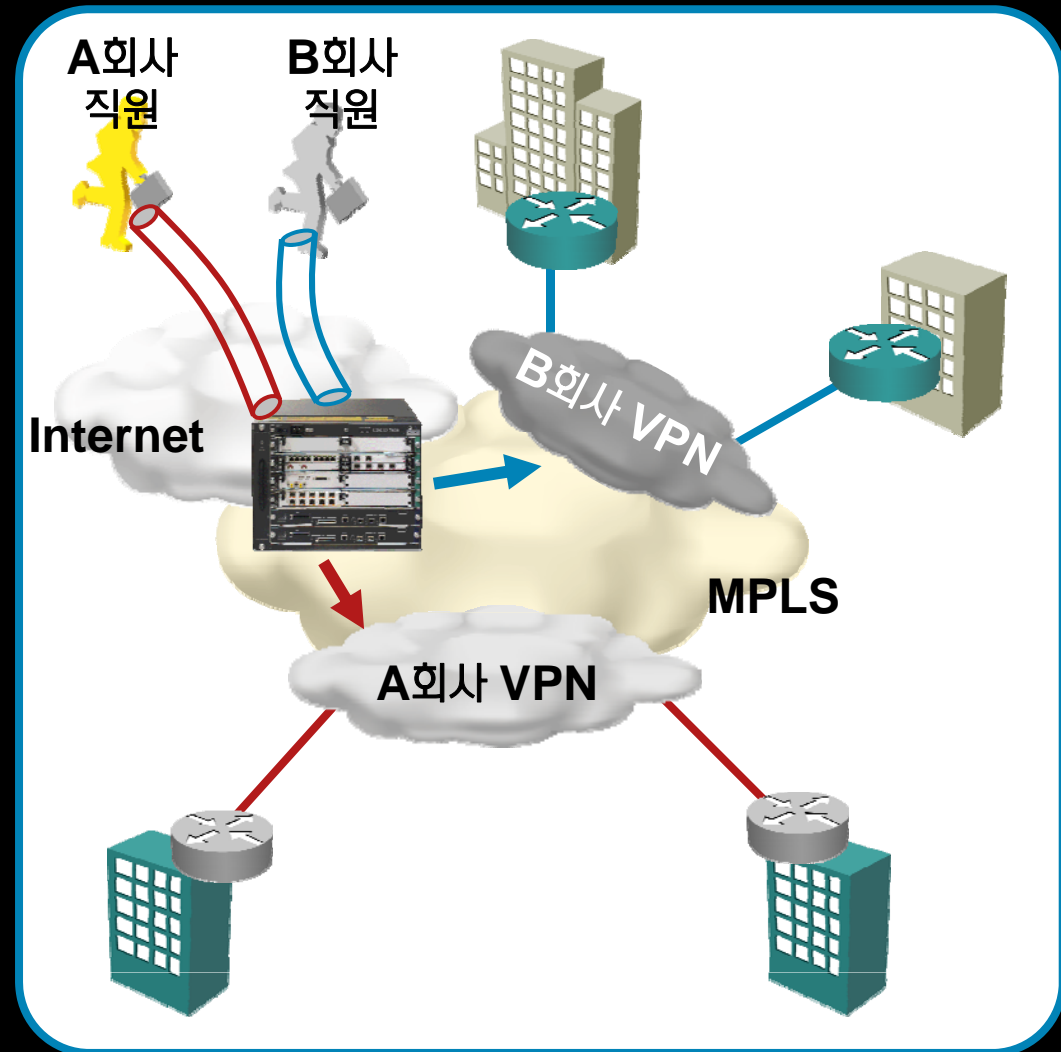
Cisco IOS 기반의 유연한 VPN 구축

4. MPLS-Aware VPN



사업자의 VPN 서비스 구성

- IPsec 트래픽을 해당하는 MPLS VPN 망으로 전달
- VPN-SPA : 최대 25Gbps IPsec + MPLS 연동





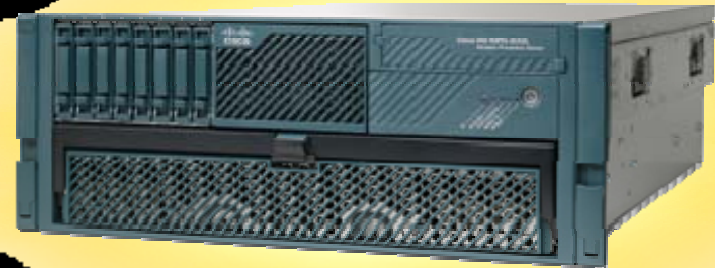
Cisco VPN Solution : Remote Access VPN



Remote-Access VPN Solutions



대형 네트워크
VPN Head-end



ASA 5580
1 Gbps/10,000 세션

VPN Head-End / Remote-Site



ASA 5510 / 5520 / 5540 / 5550
최대 25Mbps의 VPN 성능

소규모 Remote-Site



ASA 5505
최대 100Mbps의 VPN 성능

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모든 Remote 접속을 단일 플랫폼에서 관리



Any Application



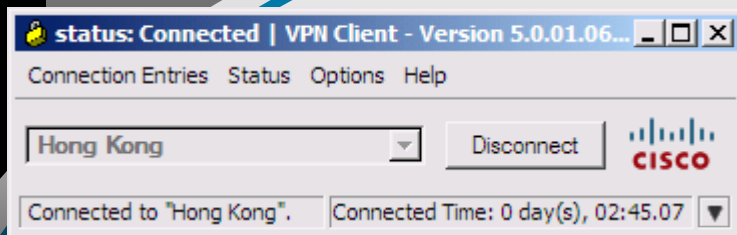
Any End-Point



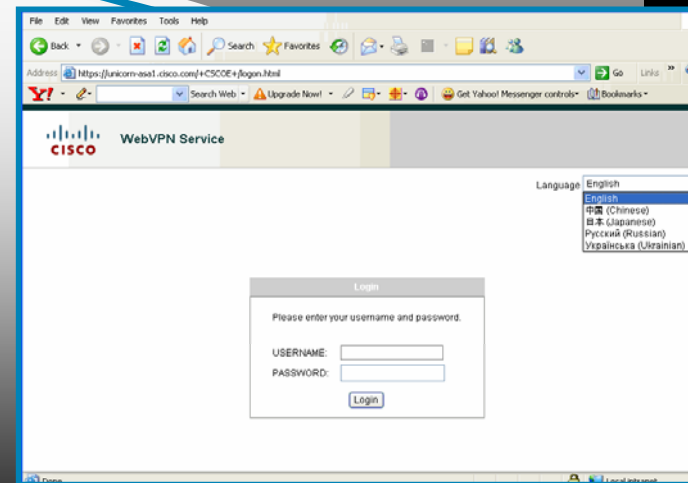
Any Policy

단일 ASA에서 IPsec 및 SSL VPN 동시 지원

IPsec VPN



SSL VPN

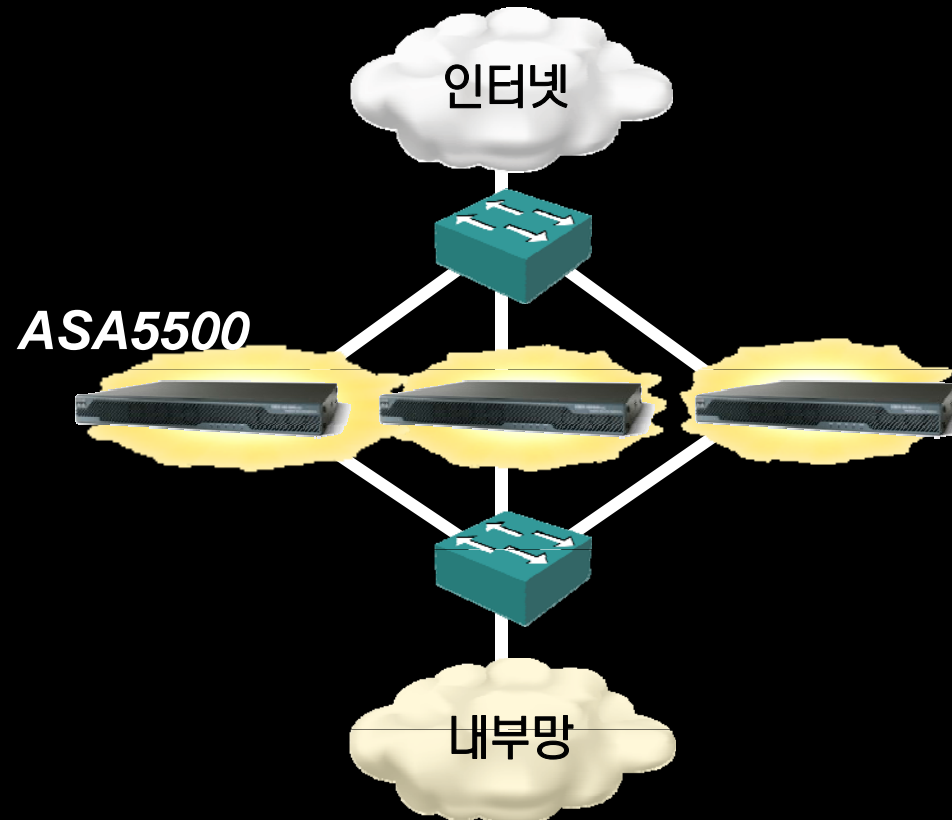


ASA 5500 VPN의 강력한 확장성



외부 로드 밸런서 없이 Active-Active 구현

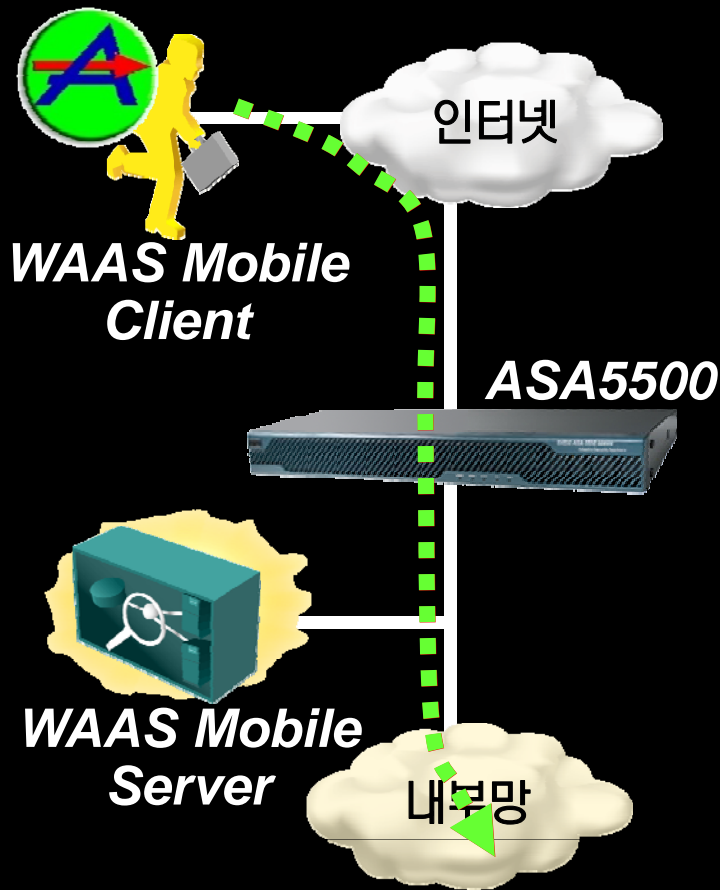
ASA를 이용한 Active/Active 클러스터링



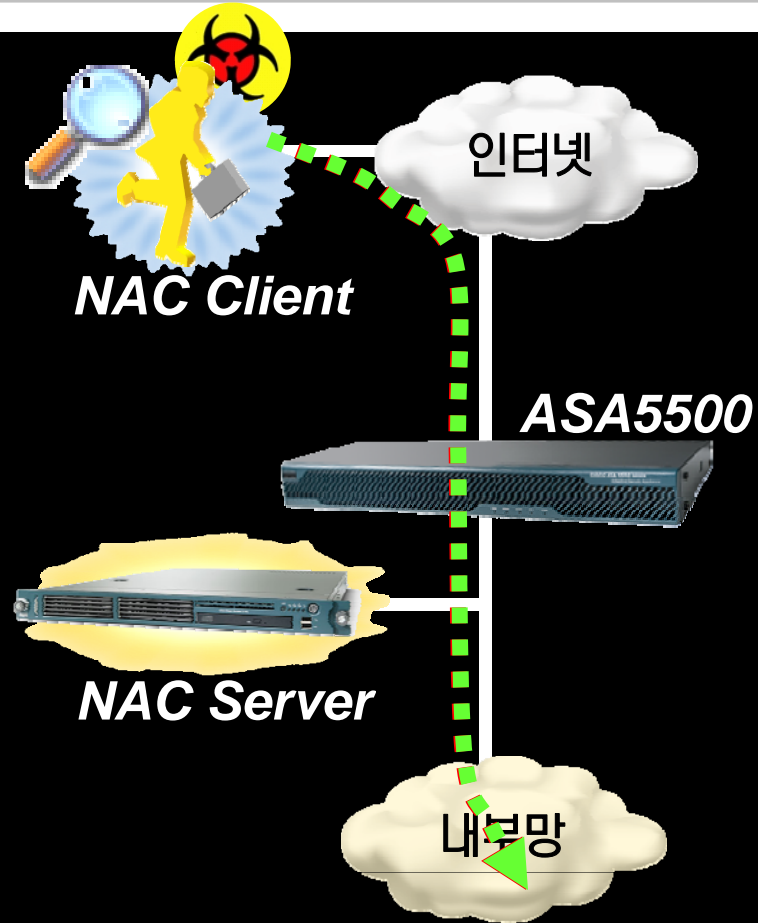
다양한 솔루션과의 연동 - 향상된 보안 및 생산성



Cisco WAAS Mobile과의 연동을 통한 VPN 가속 기능



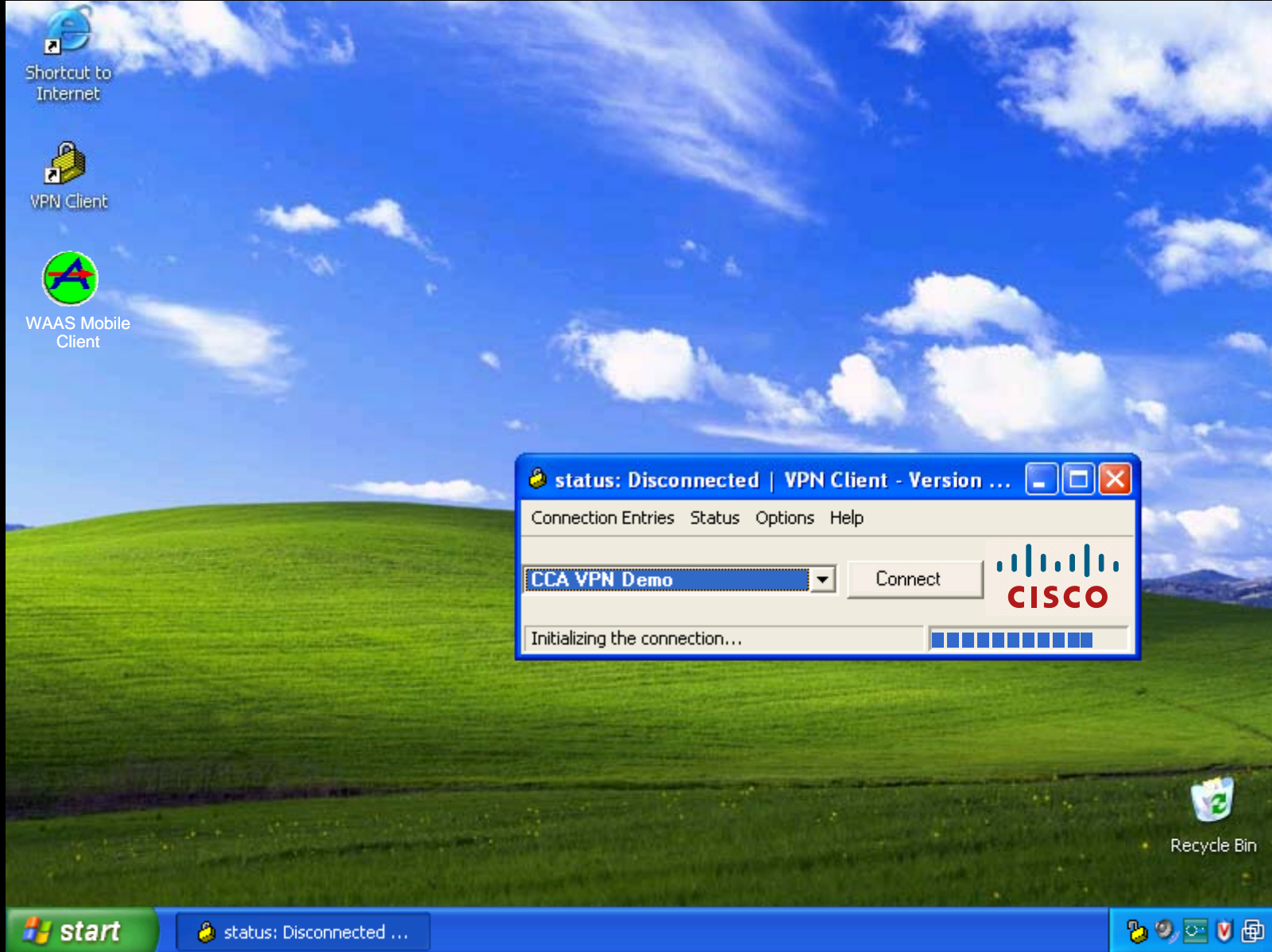
Cisco NAC과의 연동을 통한 강력한 보안 정책 적용



Enter Demo

Cisco VPN Solution + Cisco NAC Solution





Shortcut to Internet

VPN Client

WAAS Mobile Client

status: Disconnected | VPN Client - Version ...

Connection Entries Status Options Help

CCA VPN Demo [v] Connect

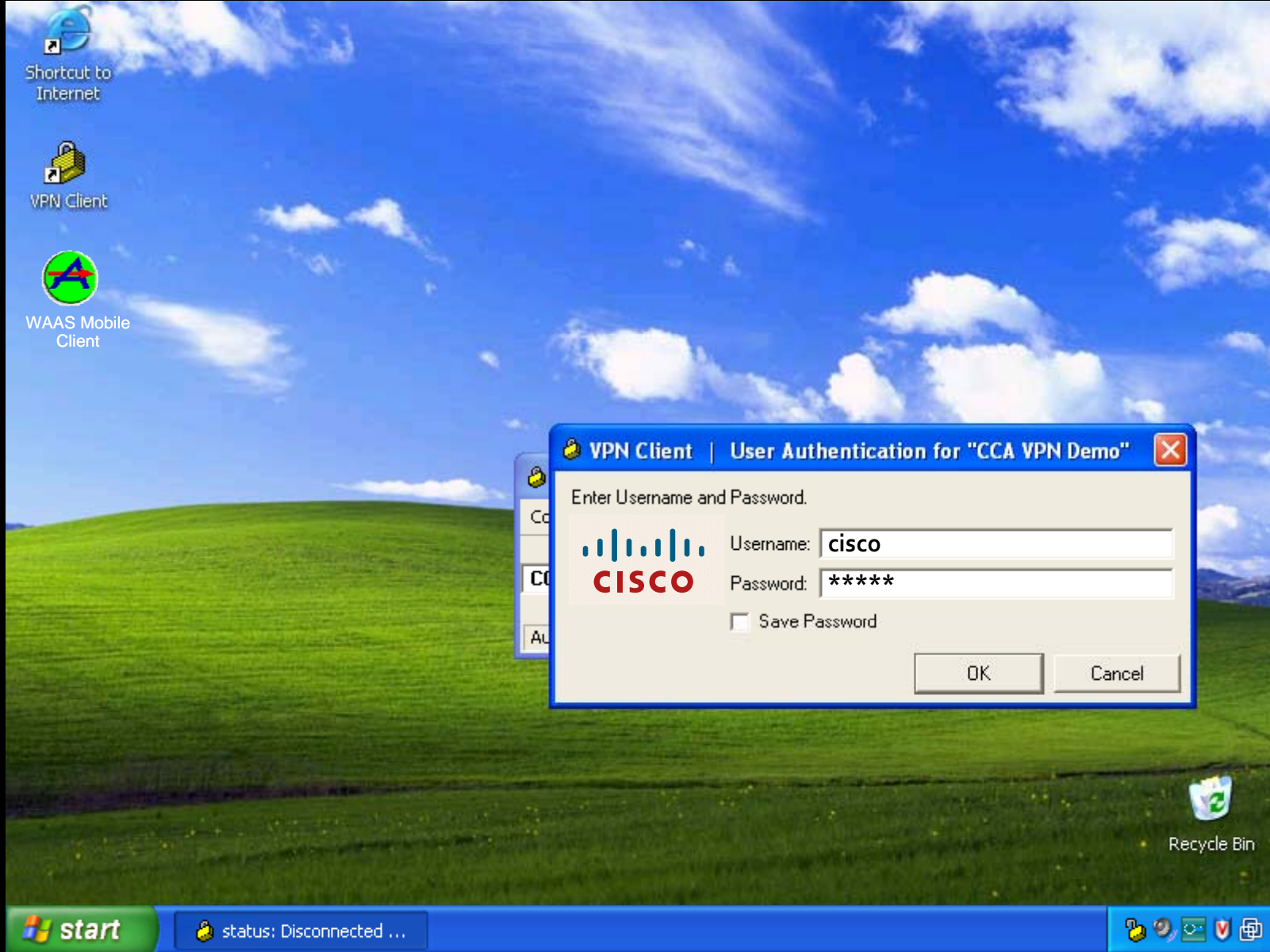
Initializing the connection... [Progress Bar]

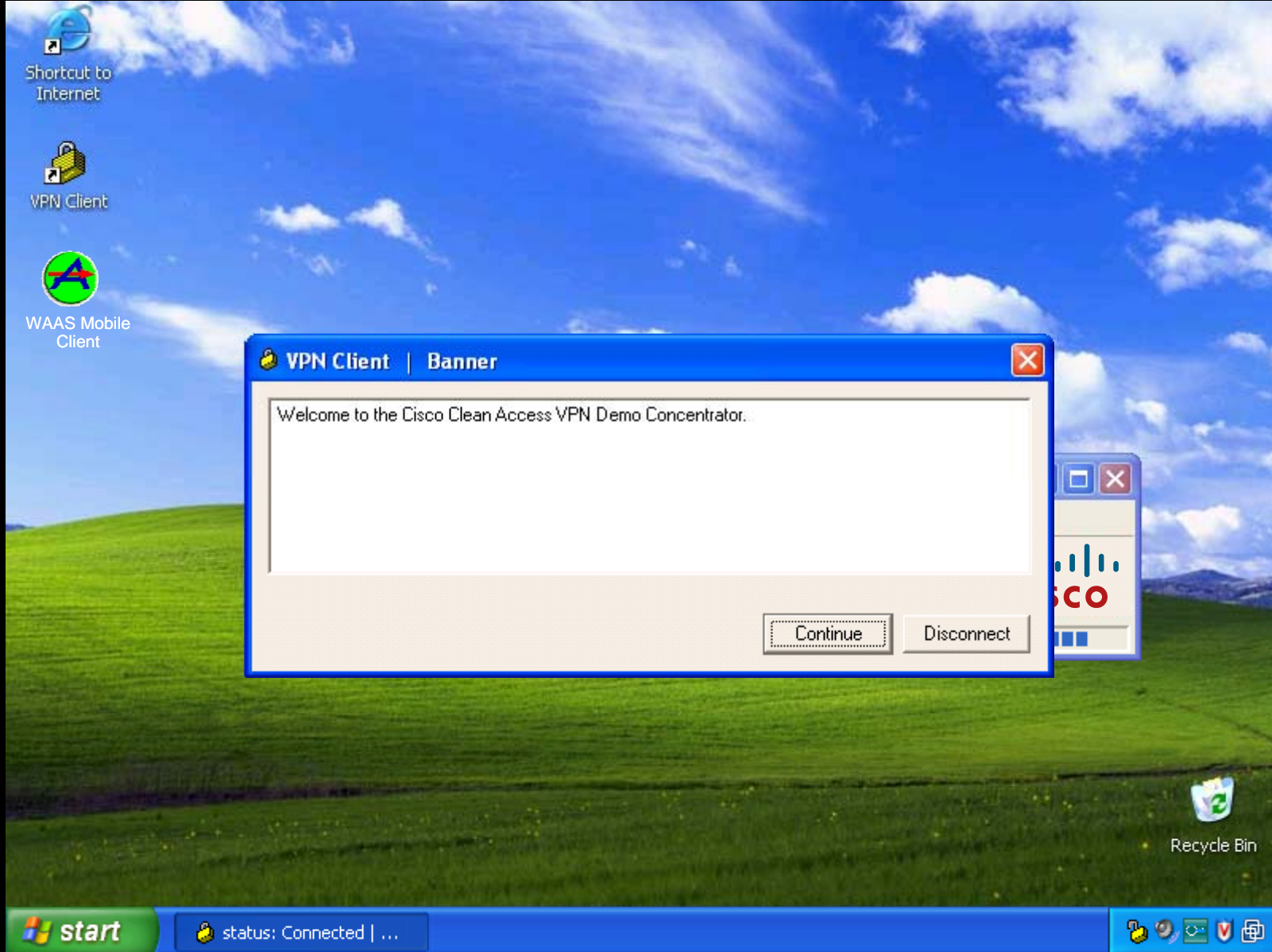
CISCO

start

status: Disconnected ...

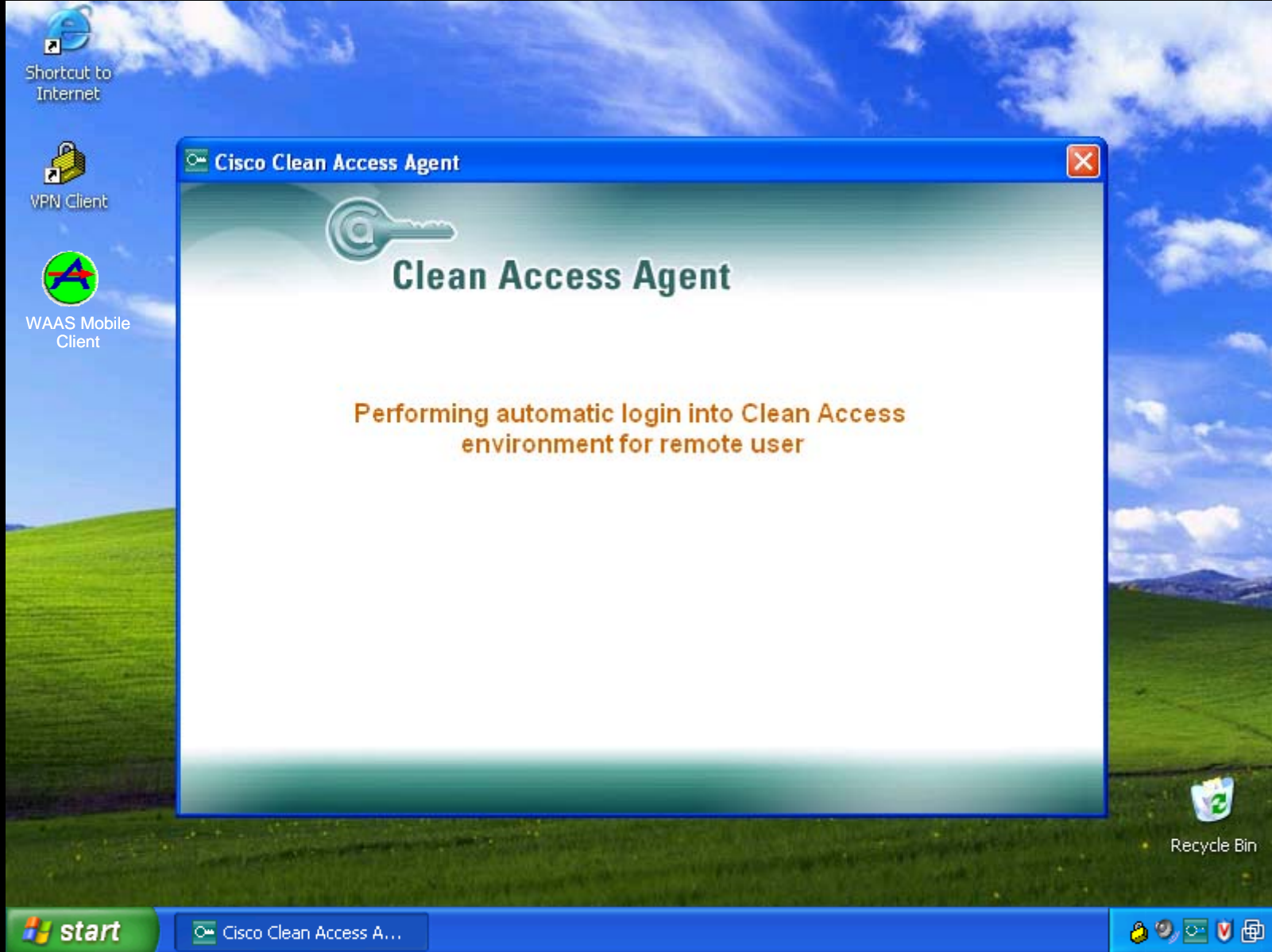
Recycle Bin

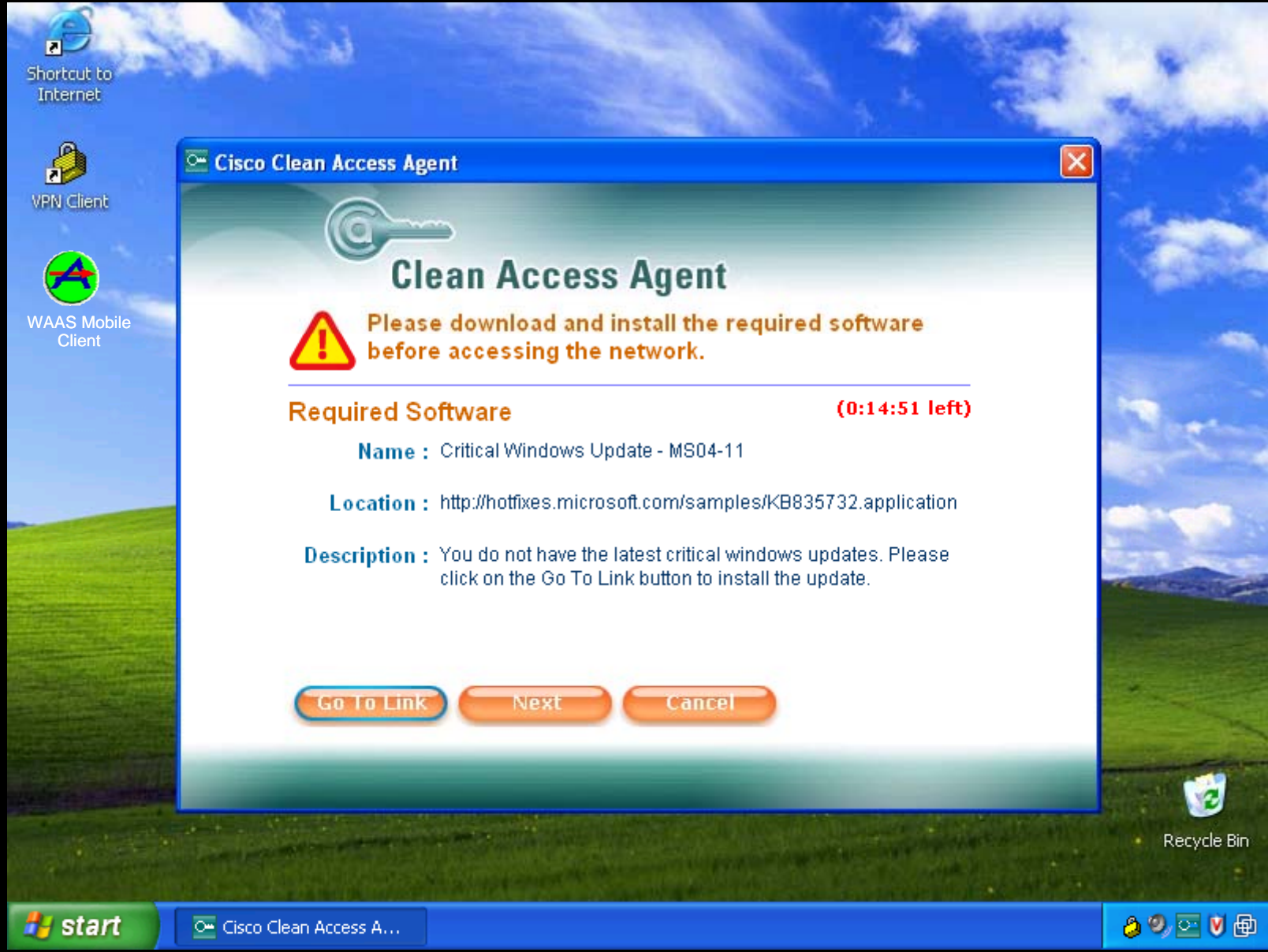












Shortcut to Internet

VPN Client

WAAS Mobile Client

Cisco Clean Access Agent



Clean Access Agent



Please download and install the required software before accessing the network.

Required Software

(0:14:51 left)

Name : Critical Windows Update - MS04-11

Location : <http://hotfixes.microsoft.com/samples/KB835732.application>

Description : You do not have the latest critical windows updates. Please click on the Go To Link button to install the update.

Go To Link

Next

Cancel

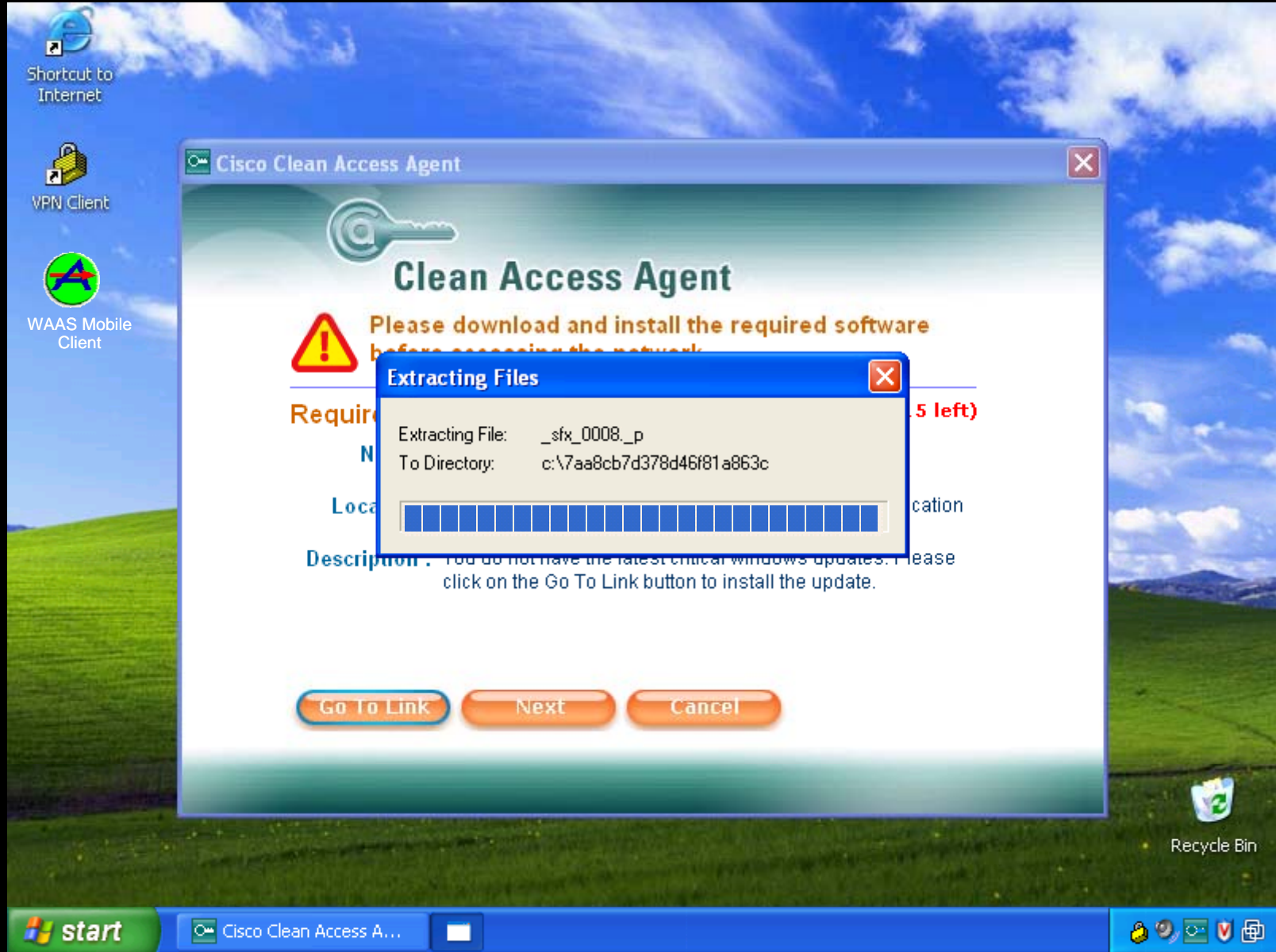


Recycle Bin

start

Cisco Clean Access A...





Shortcut to Internet



VPN Client



WAAS Mobile Client

Cisco Clean Access Agent

Clean Access Agent

Please download and install the required software before accessing the network.

Required

Name

Location

Description: You do not have the latest critical windows updates. Please click on the Go To Link button to install the update.

Go To Link Next Cancel

Extracting Files

Extracting File: _sfx_0008._p
 To Directory: c:\7aa8cb7d378d46f81a863c

Progress bar: []

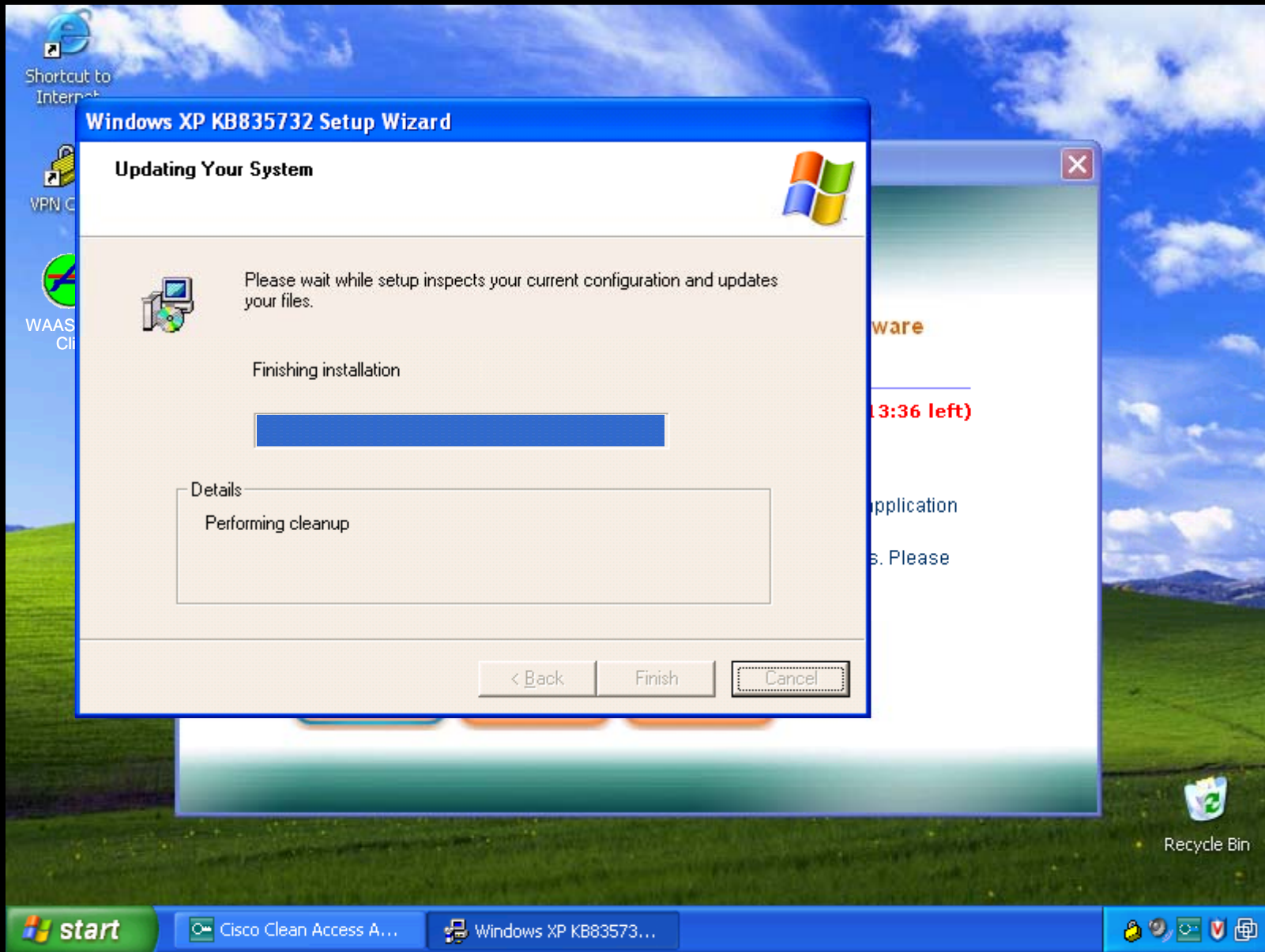
start

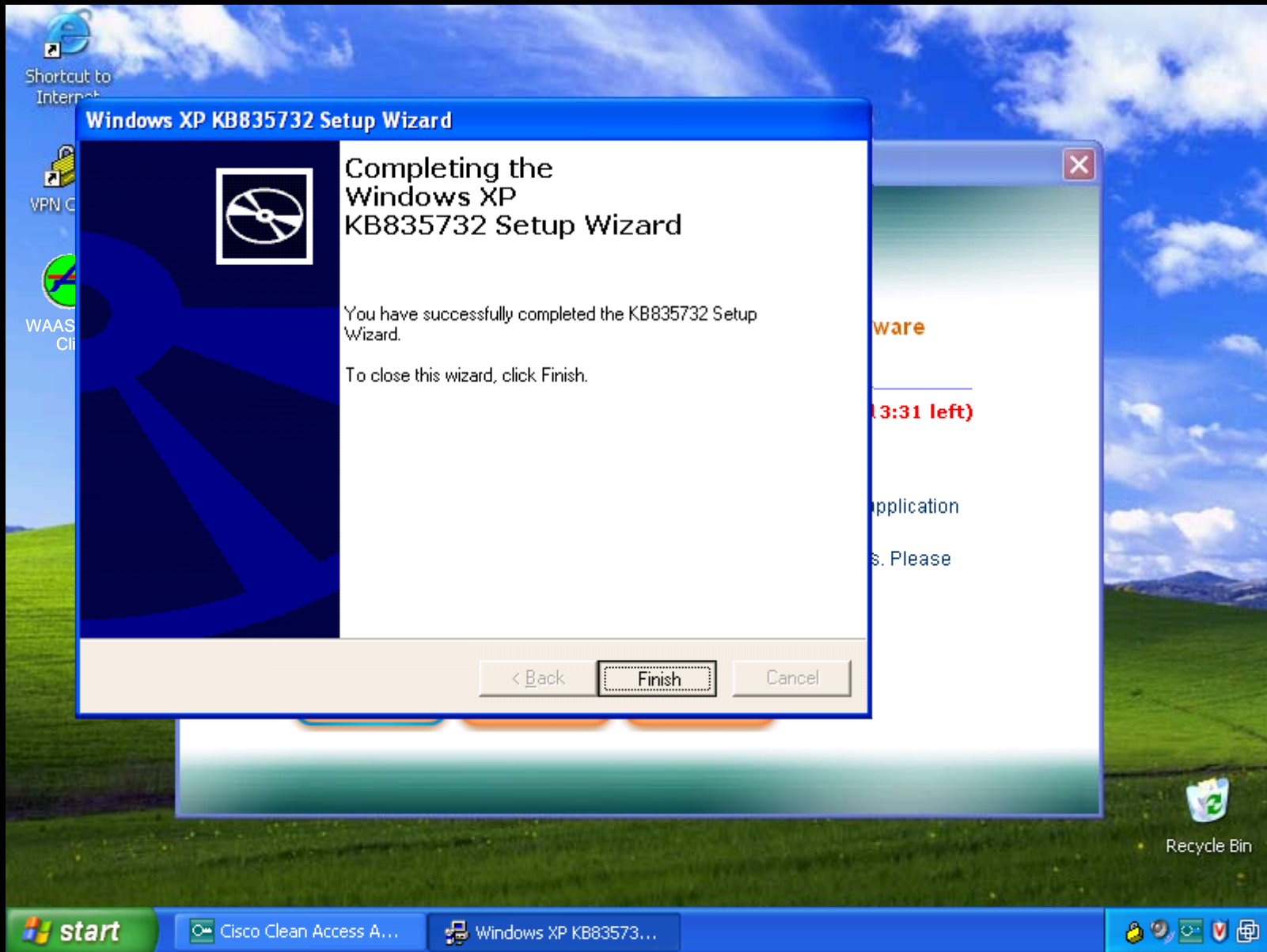
Cisco Clean Access A...



Recycle Bin








Shortcut to Internet

VPN Client

WAAS Mobile Client

Cisco Clean Access Agent

Clean Access Agent

 Please update the virus definition file of the specified antivirus software (required).

Required Antivirus Update **(0:13:25 left)**

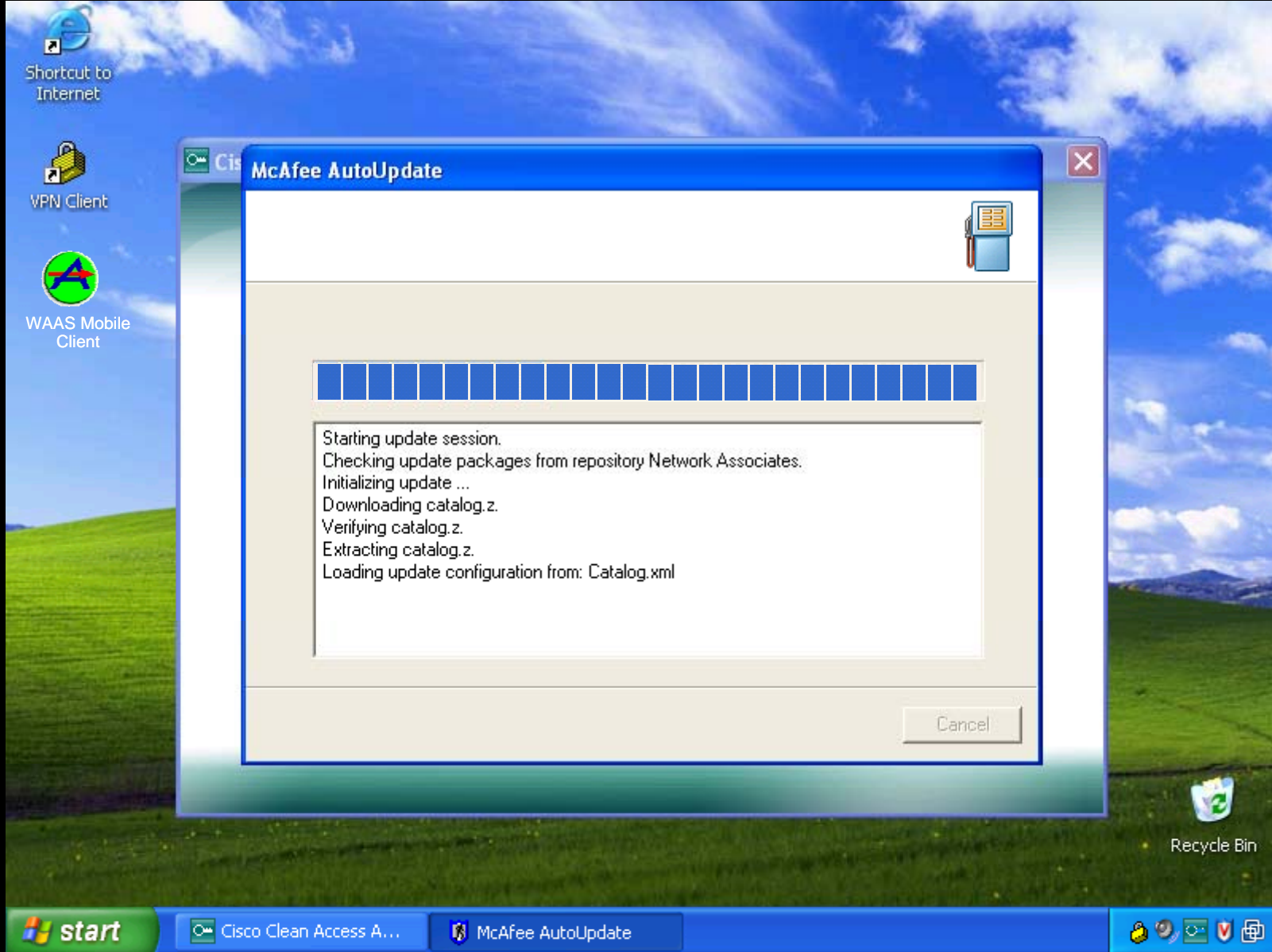
Name : Update your Anti-Virus

Software: McAfeeAV

Description : Clicking Update will update your anti-virus software to the latest version.

Recycle Bin


start Cisco Clean Access A...



The screenshot shows a Windows XP desktop with a blue sky and green hills background. On the left side, there are three desktop icons: "Shortcut to Internet", "VPN Client", and "WAAS Mobile Client". At the bottom right, there is a "Recycle Bin" icon. The taskbar at the bottom features the "start" button, a taskbar button for "Cisco Clean Access A...", and several system tray icons including a clock, volume, network, and security indicators.

The main window is titled "Cisco Clean Access Agent" and contains the following text:

Clean Access Agent

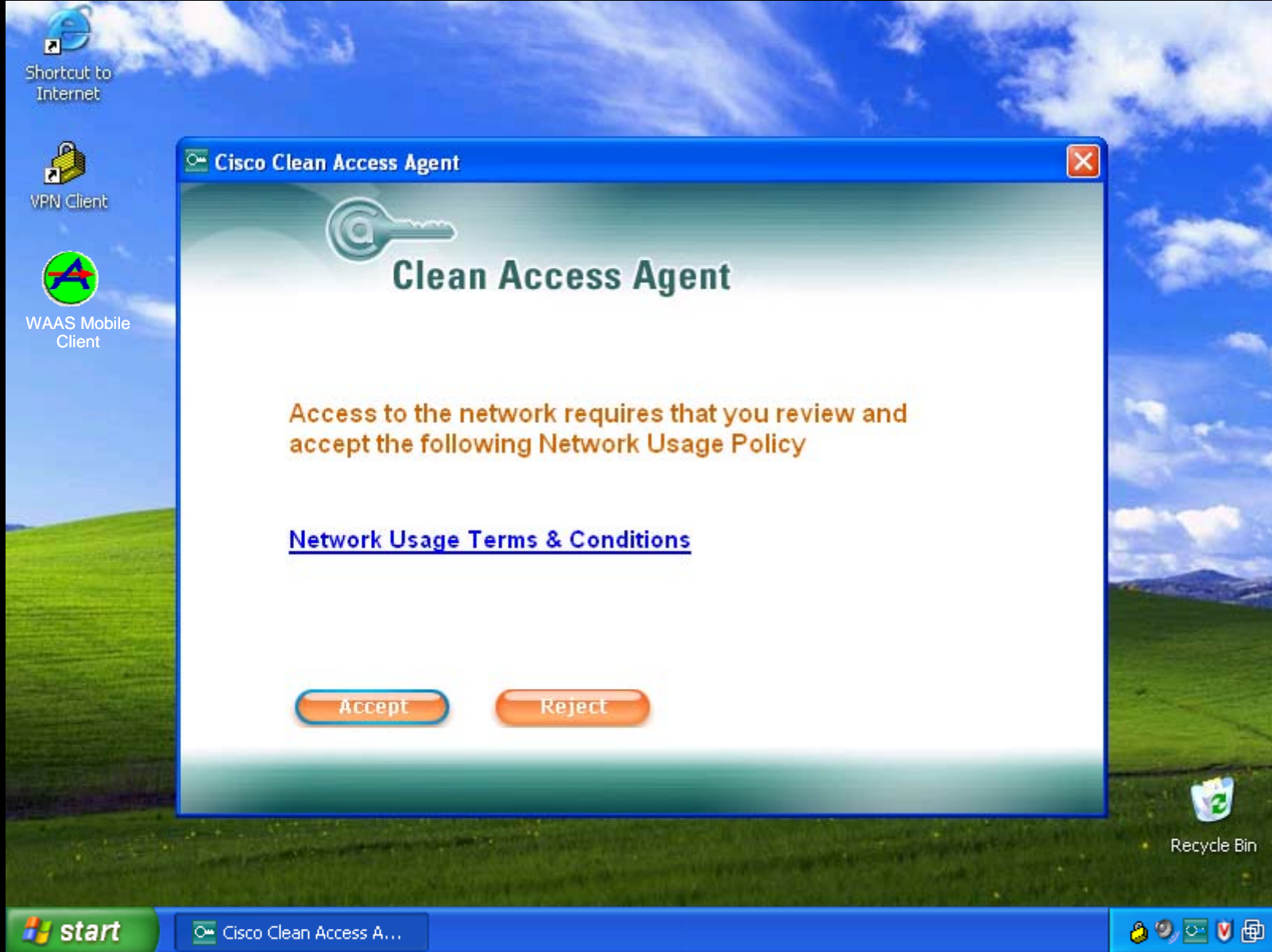
 Please update the virus definition file of the specified antivirus software (required).

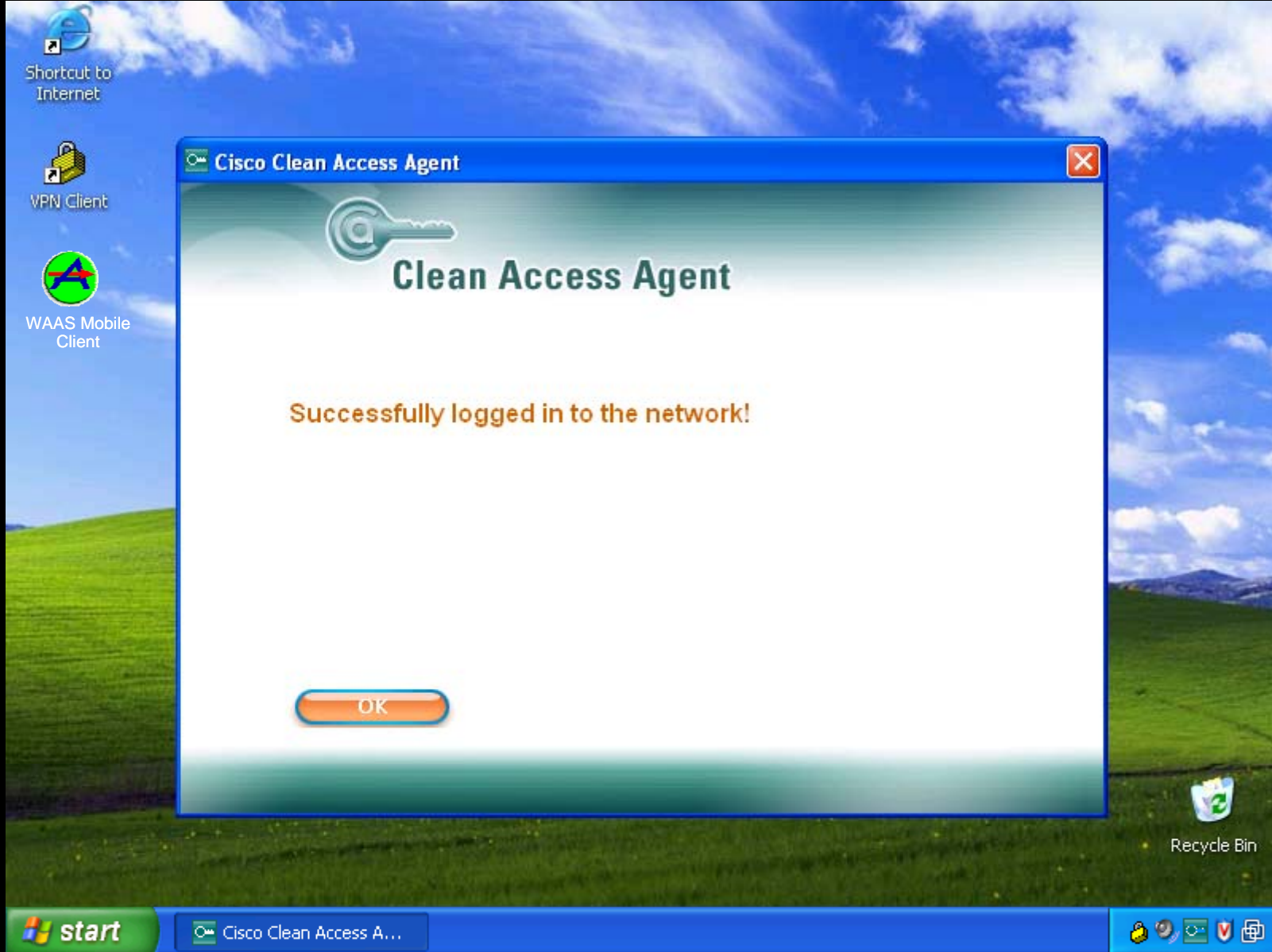
Required Antivirus Update (0:09:59 left)

Name	Software	Description

At the bottom of the window are three buttons: "Update", "Next", and "Cancel".

A smaller dialog box titled "Cisco Clean Access Agent" is overlaid on top, displaying the message: "The virus definition update has been launched successfully." with an "OK" button.





Shortcut to Internet

VPN Client

WAAS Mobile Client

Cisco Clean Access Agent



Clean Access Agent

Successfully logged in to the network!

OK

Recycle Bin

start

Cisco Clean Access A...









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17% of cca_ipsec_vpn_v1.zip Completed

Saving:
cca_ipsec_vpn_v1.zip from ccademo.cisco.com

Estimated time left: 10 sec (765 KB of 4.80 MB copied)

Download to: C:\Documents\... \cca_ipsec_vpn_v1.zip

Transfer rate: 380 KB/Sec

Close this dialog box when download completes:

Open | Open Folder | Cancel

...to innovate in art and science, and is rewarded with IEEE's highest designation—IEEE Fellow.

...the World

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