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Classification	General	Audience	NIC VPN User
Version	1.0	Date of last change	4/28/2010

Manual for configuring SSL VPN Client

NIC is introducing a new web based VPN interface to allow users to connect to NICNET through VPN. Apart from existing Client based VPN service, this new interface automatically identified the OS of the clients system, downloads and installs the compatible VPN client software accordingly. Unlike the older options where the IPSec VPN client software has required to be installed and configured by the user. The new Web VPN software is provided by the VPN appliance manufacturer 'Cisco AnyConnect VPN client' and is loaded on the security appliance and automatically deployed to remote users when they log in to the security appliance.

Cisco AnyConnect VPN Client, Version 2.0, connects remote users with the Cisco VPN Appliance using the Secure Socket Layer (SSL) protocol(SSL VPN) unlike IPSec VPN.

The AnyConnect client provides supports to remote end client systems running Microsoft Vista, Windows 7, Windows XP or Windows 2000, Linux, or Macintosh OS X.

Requirements

The system requirements to install the Cisco AnyConnect VPN Client on each of the supported platforms are given below.

Operating System	Computer	Requirements
Windows 2000 SP4.	Computer with a Pentium [®] -class	• 5 MB hard disk space.
Windows XP SP2.	processor or greater.	• RAM:
	In addition, x64 or	 128 MB for Windows 2000.
Windows Vista.	x86 processors are supported for	– 256 MB for Windows XP.
Windows 7	Windows XP and Windows Vista.	– 512 MB for Windows Vista.
		• Microsoft Installer, version 3.1.
The following Linux	• Computer with	• RAM: 32 MB.
distributions have been tested and are known to work with the	an Intel i386 or higher processor.	• About 20 MB hard disk space.
AnyConnect Client,	• 32-bit	• sudo access for the security
while following the requirements listed in this document:	processors are supported.	appliance to download and install the AnyConnect client, or to update the AnyConnect client.
• Red Hat Enterprise	• Biarch 64-bit - standalone mode only; web-based	• sudo: 1.6.6 or later required.

Note: ¹The AnyConnect VPN Client is not compatible with Parallels Desktop for Mac.

Prior to installing this software, the user has to get the VPN account and Digital certificate from NIC.

Procedure to configure Cisco AnyConnect VPN software

- 1. Download the CA root certificate from <u>http://nicca.nic.in</u> or <u>http://vpnca.nic.in</u> as per the Issuer of the Digital certificate provided .
- 2. Add the site 'vpndel02.nic.in' as in the list of trusted sites in the browser.
- 3. Install the Digital certificate. Refer ' Procedure to Import Digital Certificate' available in vpn support site.

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4. Connect to '<u>https://vpndel02.nic.in</u>' using the Web Browser.

🖉 New Tab - Microsoft Internet Explorer provided by Wipro
COO V I https://vpndel02.nic.in/
File Edit View Favorites Tools Help
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🔶 Favorites 🛛 🚖 🏉 Suggested Sites 👻 🙋 Free Hotmail 🙋 Web S
🔠 👻 🎂 NICEMAIL(WSRV) ver 👑 Cisco AnyConnect VP 🔧 Gm
What do you w

5. The browser will prompt the list of Digital certificate (DC) installed in the system. Select the desired DC.

Choose a	digital certificate		? 🗙
	ation The website you want to Please choose a certifica	view requests identification. te,	
	Name	Issuer	
	Arpita Burman Arpita Burman	vpnca vpnca	
	Mc	vre Info View Certifical	te
		ОК Са	ncel

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Signing data	with your private exchange key 🛛 🔀
	An application is requesting access to a Protected item.
	CryptoAPI Private Key
	OK Cancel Details

- 6. Give the private key.
- 7. Give the VPN account and password and select login.

C Welcome to	o NIC Web VPN Services - Microsoft Internet Explorer provided by Wipro Limited	
G .	👩 https://vpndel02.nic.in/+CSC0E+/logon.html 🛛 😵 😵 Certificate Error 🚱 🗶 🖉 Ask Search	• ٩
File Edit Vie	ew Favorites Tools Help	
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	NIC National Informatics Centre GOVERNMENT OF UNDER	
	Welcome to NIC Webvpn Services	
	Please enter your username and password.	
	USERNAME:	
	PASSWORD:	
	Login	
	Contact us	
	For activating VPN account and issuing Digital Certificate mail to <u>vpnsupport@nic.in</u>	
	Address : NICNET Operations , INOC.NIC HO, A- Block, C G O Complex, New Delhi -110003	
Dana		×
start	Search Desktop	12:56 PM

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🧭 https://vpndel02.nic.in/+CSCOE+/portal.html?next=svc	⊘ - [≫]
NATIONAL INFORMATICS CENTRE CONTROL Welcome to NIC Web VPN Services	
Welcome to NIC Webvpn Services	
Cancel	
Done 🗸 Trusted sites 🔬 🗸 🕏	0% • .:
指 start 🔰 🖉 🧐 🥙 🧭 5. Internet Explorer 🕞 🖉 Anyconnect Setup Do 🥵 Search Desktop 🖉 🦿 🖓 🖓 🖏 🖏 🖓	12:59 PM

- 8. Select 'continue'
- 9. The VPN client software would be downloaded automatically .

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	Search 🔶 🏧 CN	N 🛛 🎬 YouTube 🗸 🖪 Facebook 🗸 🛐 Games 🗸 🖲 Amazon 🗸 🕎 hypnagogic 🛪 🚬 Weather 🏼 🧠 🧠 Opt
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	Cisco Cisco WebLaunch Cisco Platform Platform Cisco C	AnyConnect VPN Client Using ActiveX for Installation Launching Cisco AnyConnect VPN Client. If the software does not start properly, Click here to end the session cleanly. VPN Client Downloader VPN Client Downloader Cancel

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10. Select 'Yes' if the following error comes .



11. The VPN SSL client would be automatically installed and the VPN connection would be established.



12. The VPN statistics can be viewed by selecting the VPN Icon created in the right side of the bottom.

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13. The VPN Connection status, Client IP and IP routes can be viewed.

🚑 Cisco AnyConnect VPN Client	
🗞 Connection 🟮 Statistics 🔒 ,	About
NATIONAL INFORMATICS CENTRE THE IT SUPPORT PROFESSION	ALS
Connection State:	Connected
Client Address:	10.1.61.68
Server Address:	164.100.97.92
Client Address (IPv6):	Not Available
Bytes Sent:	27904
Bytes Received:	3324
Time Connected:	00:38:17
Details	

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Statistics Pouto Dotaile			
Houte Details			
	INFORMATICS		
	CENTRE		
	THE IT SEPTEMENT IN		
Connection Information		Address Information	
State:	Connected	Client:	10.1.61.68
Mode:	Split Include	Server:	164.100.97.92
Duration:	00:39:46	Client (IPv6):	Disabled
Bytes			
Sent:	28372	Transport Information	
Received:	3324	Protocol:	DTLS
Frames		Cipher:	RSA_AES_128_SHA1
Sent:	348	Compression:	None
Received:	23	Proxy Address:	No Proxy
Control Frames		Feature Configuration	
Sent:	154	FIPS Mode:	Disabled
Received:	148	Posture Assessment:	Not Applicable
		Trusted Network Det	tection: Disabled

14. Once the VPN connection is established , the Cisco Anyconnect application will be added in the list of the program . And will appear in the program list/ startup.

		Set Program Access and Defaults		
	Ŭ,	Windows Catalog		
	-	Windows Update		
	a	Cisco AnyConnect VPN Client		
	i	Programs		
onal	Ì	Documents		
essid	<u>v</u> -	Settings		
Prof	\mathbf{P}	Search		
XP	?	Help and Support		
swop		Run		
Win	0	Shut Down		
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15. Next time the VPN Client application can be initiated directly from the desktop .

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		Set Program Access and Defaults
	1	Windows Catalog
	4	Windows Update
	4	Cisco AnyConnect VPN Client
	@	Programs +
land	٨	Documents •
essic	<u>v</u>	Settings
Prof	\mathbf{P}	Search +
ХР	?	Help and Support
idows		Run
Win	0	Shut Down
-	sta	rt 🖉 🖉 🕲 🔭 🕞 51 🗟

16. The VPN client can be selected and it will prompt for the private key for the DC.

lisco AnyCo	nnect VPN Client			
Connection	Statistics About Antional CENTRE CENTRE CENTRE			
Connect to:	vpndel02.nic.in	✓ ³		
Username:	vpnsupport			
Password:	****			
	Connect			
Please enter your u	lease enter your username and password.			

17. Enter the VPN username and password and select connect.

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Cisco AnyConnect VPN Client	
Welcome to NIC Webvpn Services	
	Accept Disconnect

- 18. Select 'Accept' and continue.
- 19. After the VPN connection is established , the user can access the required secure applications.
- 20. If any different option/ error appears, then report the same to <u>vpnsupport@nic.in</u>.
- 21. The Auto-downloadable feature has been tested for Windows XP, Windows Vista, Window 7 (32 bit as well as 64 bit). However if you have any issues in auto downloading, then you can install the Cisco Any connect software directly. Cisco Any connect software is available in VPN support site under section 'software' in Zip format. The Zip file has Cisco Any connect software for Windows, Linux and MAC. Pls check the compatibility of your OS before installation.