CONNECTING TO ECS RESOURCES

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To connect to ECS resources using a laptop or a home system, it is required that you have a functional Windows account and also are connected to the VPN which allows secure full network access through both campus wireless and open connections. Additionally, it provides a mechanism for remote users to access campus resources that are normally restricted from off campus sites. It does so by first requiring the user to logon and authenticate as a member of Sacramento State University community, it then flags the user's network traffic so that campus resources think the traffic originated at Sacramento State.

1) Getting a Windows username and password

The procedures on how to obtain/apply for such account is as follows:

   i) Go to: [www.ecs.csus.edu](http://www.ecs.csus.edu).

ii) Click on the leftmost icon as shown in figure 1 above and then Under the title “Getting and Modifying Your Unix Account” click on “Get a new account (Windows/Unix)” and select the appropriate account to be applied.
ii) Click on Students -> Student Resources and select the appropriate account to be applied for in the Network/Unix accounts menu

iii) Fill out the form and send the application.

iv) The user will receive an automatic e-mail in response to his/her submission to confirm that the application form has been received.

v) The process of creating an account takes 2-7 school days.

vi) The user will receive a second e-mail confirming that the account has been created and ready for pickup at the ECS Help Desk located in RVR-2011.

vii) The student must bring his/her OneCard to be verified. If the student has his/her OneCard without the current semester sticker or does not have a OneCard, then check his/her status by logging into CasperWeb and conforming his/her schedule for this semester. This is to ensure that the student is registered for the current semester.

Note: Make sure to check the student’s photo ID if he/she does not have OneCard.

viii) The account will be handed to the student at this point. The student has to sign the form before a copy is given to him while the signed copy is to be filed at the ECS Help Desk. This will conclude the process of obtaining a Windows/UNIX account.

ix) After obtaining this account you should log into one of the Windows systems in the ECS labs so that a Windows based account is automatically created the first time you log in. Windows account thus created will have the username and password same as the UNIX account.
2) Download VPN Client

i) VPN can be obtained by clicking on the link http://www.csus.edu/vpn/. This displays the VPN home page. Refer to Figure 2.
ii) Click on **VPN Clients** present on the left hand corner of the VPN home page.

iii) This will display a Software Distribution Website. Refer to Figure 3.

**Figure 3**

CONNECTING TO ECS RESOURCES
iv) Click on **Obtain Software** from the menu listed in the left hand corner in the window as shown in Figure 3. This displays a window which requests you to accept to the terms and conditions by clicking on **I Agree**. Refer to Figure 4.

![Figure 4](image-url)
v) A window prompting you to log into Saclink will pop up.
vi) This is required to have access to the Software Distribution Website.
vii) Fill in your Saclink username and password. Refer to Figure 5.

![Figure 5](image-url)
viii) The Software Distribution Website is shown in Figure 6.

ix) Please select **Cisco VPN – Windows** from the list of software titles and click on **Download**.

---

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Figure 6
x) Click the **Download Now** button. Refer to Figure 7.
xi) Click on **Save** button to save the file to your desktop. The file could take a few minutes or over an hour to download depending on your connection speed. Refer to Figures 8 and 9.

![File Download - Security Warning](image1)

**Figure 8**

![Save As](image2)

**Figure 9**
3) Installing VPN

i) Once the file is downloaded, close your browser.

ii) Double-click on the downloaded file icon on your desktop.

iii) Change the Unzip to folder location to the C:\VPN. Refer to Figure 10.

![Figure 10](image)

iv) Click the **Unzip** button.

v) When complete, click the **OK** and then the **Close** button. Refer to Figure 11.

![Figure 10](image)
vi) Open the VPN folder by navigating to it within Windows Explorer or My Computer and double-clicking on it.

vii) Double-click on the Setup.exe icon.

viii) On the Installshield wizard window, click Next to continue. Refer to Figure 12.

![Cisco Systems VPN Client 4.8.01.0300 Setup](image)

**Welcome to the Cisco Systems VPN Client 4.8.01.0300 Installation Wizard**

It is strongly recommended that you exit all Windows programs before running this setup program.

Click Cancel to quit the setup program, then close any programs you have running. Click Next to continue the installation.

**WARNING:** This program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

![Figure 11]
ix) Click I accept the license agreement to agree to the software license agreement and click Next. Refer to Figure 13.

![License Agreement](image.png)

**License Agreement**

You must agree with the license agreement below to proceed.

**Client Software License Agreement of Cisco Systems**

THE SOFTWARE TO WHICH YOU ARE REQUESTING ACCESS IS THE PROPERTY OF CISCO SYSTEMS. THE USE OF THIS SOFTWARE IS GOVERNED BY THE TERMS AND CONDITIONS OF THE AGREEMENT SET FORTH BELOW. BY CLICKING "YES" ON THIS SCREEN, YOU INDICATE THAT YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THAT AGREEMENT. THEREFORE, PLEASE READ THE TERMS AND CONDITIONS CAREFULLY BEFORE CLICKING ON "YES". IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THE AGREEMENT, CLICK "NO" ON THIS SCREEN, IN WHICH CASE YOU WILL BE DENIED ACCESS TO THE SOFTWARE.

- [ ] I accept the license agreement
- [ ] I do not accept the license agreement

![Figure 12](image.png)
x) Next screen shows the destination folder of VPN client. You can change the destination folder by clicking on Browse button and selecting the desired path. The default path as shown in figure is recommended. Refer to Figure 14.

![Destination Folder](image)

**Figure 13**
xi) Click Next to start installation. See Figure 15.

![Cisco Systems VPN Client 4.8.01.0300 Setup](image)

**Figure 15**

Click the Back button to reenter the installation information or click Cancel to exit the wizard.
xii) The Next two screen shots show the progress of installation. Refer to Figure 16 and 17
xiii) Click on Finish to finish the installation procedure. Refer to Figure 18.

Figure 18

xiv) Click on Yes, I want to restart my computer now. Refer to Figure 19.

Figure 19
4) Configure VPN

i) Click on the Start button and navigate to All Programs->Cisco Systems VPN Client and then click on VPN Client.

ii) Click the New button.

iii) Enter Oncampus if you are using the Sacramento State wireless or wired network and Offcampus for all other connections for the Connection Entry.

iv) Enter CSUS Wireless VPN Connection for the Description of the new connection entry.

v) Enter vpn.csus.edu for Host name.

vi) Select the Authentication tab.

vii) Under Group Authentication enter Name: oncampus and Password: freedom. Refer to Figure 20.
viii) Click on the **Transport** tab. For oncampus connections, deselect the Enable Transparent Tunneling option. Refer to Figure 21.

![Figure 21](image-url)
ix) For off campus connections, select the IPSec over TCP option and Allow LOCAL LAN access. Refer to Figure 22.

![VPN Client Configuration](image)

Figure 22

5) Firewall

i) If you have a personal firewall active on your computer, you will need to configure your firewall to open up the appropriate ports and allow ESP packets to establish a connection.

ii) If you are using the VPN client on campus, open IP ports 50 and 51 and UDP port 500.

iii) If you are using the VPN client from off campus, open TCP port 10,000.

iv) Click on the Save button.

6) Connecting using VPN

i) Connect to the Internet.

ii) Navigate to Start → All Programs → Cisco Systems VPN Client

iii) Click on VPN Client.

iv) Select the appropriate Connection Entry, that is, select Oncampus if you are in Sacramento State University or Offcampus if you are at home or away.
from Sacramento State and then click on **Connect** button. Refer to Figure 23.

![Figure 23](image)

v) At the prompt for Username and password, enter your SacLink User ID and password at the. Click on **OK**. Refer to Figure 24.

![Figure 24](image)

vi) The VPN services should now be enabled.

vii) The VPN client will turn off after 90 minutes of inactivity. To turn the VPN client back on, follow steps ii) to iv) in the section Connecting using VPN.
7) Setting up a default connection

i) If you have the VPN client configured for both on campus and off campus access, you can choose which connection you would like to be the default connection. This can save a step when connecting. Follow the steps below to set the default connection.

ii) With the VPN client open, click on the connection entry that you would like to set as the default connection.

iii) From the Connection Entries menu, choose Set as Default Connection Entry. Refer to Figure 25.

iv) The default connection will appear now in bold type. Refer to Figure 26.
8) How to map a drive

i) After connecting through VPN, double click on My Computer and then go to Tools → Map Network Drive as shown in Figure 27.

![My Computer and Tools menu](image.png)

Figure 27

ii) Map Network Drive window is displayed.

iii) Specify the drive letter which is not in your computer to assign any drive for the connection.

iv) In the folder space type `\voyager.ecs.csus.edu\temp`. Temp can also be replaced by lab or faculty for drop boxes. That is `\voyager.ecs.csus.edu\lab` or `\voyager.ecs.csus.edu\faculty`.

v) Click on Connect using a different user name. Refer to Figure 28.
vi) Now click on **Connect using a different user name**. This displays a window as shown in Figure 29.

vii) Type `ecs\<Windows account username>` and `<Windows account password>` in the username and password field respectively and click **OK**.
viii) This process takes you back to the Map Network Drive window as shown in Figure 28.

ix) Click on **Finish** to connect to the ECS resources.

x) After being connected, the Temp folder will be displayed as shown in Figure 30.

![Figure 30](image)
9) How to print from a laptop

i) Queues of all network printers are located on the Gutenberg server. To print from these printers, after connecting to the VPN and mapping to the network drive, double click on **My Computer** and type the `\gutenberg.ecs.csus.edu`

ii) This displays a log-in prompt as shown in Figure 30. Log-in by entering the username as `<ecs\username>` (your gaia account username) and your gaia account password.

iii) After logging-in, the window displays the printers in Gutenberg. Refer to Figure 31.

![Figure 31](image)

iv) Select the printer that you wish to print from and it will get added to your printer list.
v) Before the printer can be added on the printer list, a small window requesting to install the printer driver is displayed as shown in Figure 32. Click OK.

![Connect to Printer](image1)

Figure 32

vi) Open the document that you want to print.

vii) Go to **File → Print** and then select the printer that you have added from the voyager network of printers and click on **OK**. You can see the print job in the printer queue. For example if you want to print using a laser printer, select `\gutenberg.ecs.csus.edu\2011_lz1` from the list of printers as shown in Figure 33 and click **OK**.

viii) If you check the printer queue you can see the status of your document. Refer to Figure 34.

![Print](image2)

Figure 33
### CONNECTING TO ECS RESOURCES

#### Figure 34

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7 document(s) in queue