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# ESF Campus Network Access Standard and Network Registration

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Computing & Network Services



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## Network Access Standard

In order to better maintain the security and integrity of the ESF Campus Network, a simple standard requirement list has been developed regarding devices that users may wish to connect. This standard currently applies to the wired network at ESF. This set of requirements will ultimately be enforced via a **Network Access Control (NAC)** system that is currently being used at ESF.

Standard requirements are tied to Network Registration, a process that associates devices connected to the network with a specific user. To register your device and determine if it meets the minimum requirements listed below, please proceed to the **ESF Campus Network Registration** portal at <http://registration.esf.edu/>.

Following are the minimum system requirements for connecting a PC/Mac to the ESF Campus Network:

### **Operating system:**

Windows: Windows XP with Service Pack 3 or higher version of Windows. Any supported version should include the latest critical security updates as obtained from **Windows Update** ( <http://www.update.microsoft.com/> ). Support for Windows XP will end 8 April 2014.

Mac OS: OS X 10.6.X or higher.

Other: Other Operating systems, such as the various versions of Linux and Unix, must be registered to the network by directly contacting the Computer & Network Services (CNS) helpdesk.

### **Antivirus:**

Windows: Symantec End Point Protection version 11.X or 12.X (preferred; supplied by ESF)

Mac OS: Symantec Antivirus for Macintosh version 11.X, or higher (preferred; supplied by ESF)

See the **Appendix** for other approved Antivirus software (PC/Mac)

### **General Anti-malware:**

Windows: Symantec End Point Protection version 11.X or 12.X (preferred; supplied by ESF)

Mac OS: None currently

See the **Appendix** for other approved Antispyware software (PC)

## **Network Access Control at ESF**

Network Access Control (NAC) is a network security system that allows or denies access to a network based on a set of policies or standards. If there is a policy or standard violation, a device (PC, Mac, wireless device, etc.) can be isolated until the issue is rectified. The ultimate purpose of the campus NAC system is to secure the network and those using it by ensuring that the devices connected meet minimum standards.

### **Common scenarios for the use of such a system include:**

1. Isolate unknown devices/systems until they can be registered/bound to an individual using a valid username and password. Only valid users can connect devices to any given network when NAC is enforced. For guest access to wired systems, please e-mail the **CNS Helpdesk** at [helpdesk@esf.edu](mailto:helpdesk@esf.edu). Guest access on the ESF wireless network is currently offered under very specific circumstances and only in designated areas.
2. Isolate a device when its operating system or software becomes out dated. When the system has been updated, it is removed from isolation and returned to normal service.
3. Isolate a device/system when its security software becomes out dated. When the software has been updated, the device/system is removed from isolation and returned to normal service.
4. Isolate a device/system when a malware infection (spyware, trojan, virus, etc.) is detected. When the system has been cleaned of infection, it is removed from isolation and returned to normal service.
5. Isolate a device/system when a user policy violation had been encountered.

The bottom line is that if your registered device stays up-to-date in terms of both operating system updates and security software updates, you will maintain a connection to the ESF Campus Network.

### **NAC system components:**

The typical NAC system consists of a combination of network hardware, user software, device standards, and user policies.

### **Important Note:**

It is important to note that the Network Registration process and the Network Access Control System, including the Bradford Persistent Agent, in no way monitor, or facilitate monitoring, the activities of individual users on the ESF Campus.

## Network Registration Process (Voluntary Manual Registration)

### Step 1 - Establish a physical connection to the network

Connect your computer to an active network jack using an Ethernet cable. Your computer should automatically configure and connect to the network, which will be shown as one of the following:

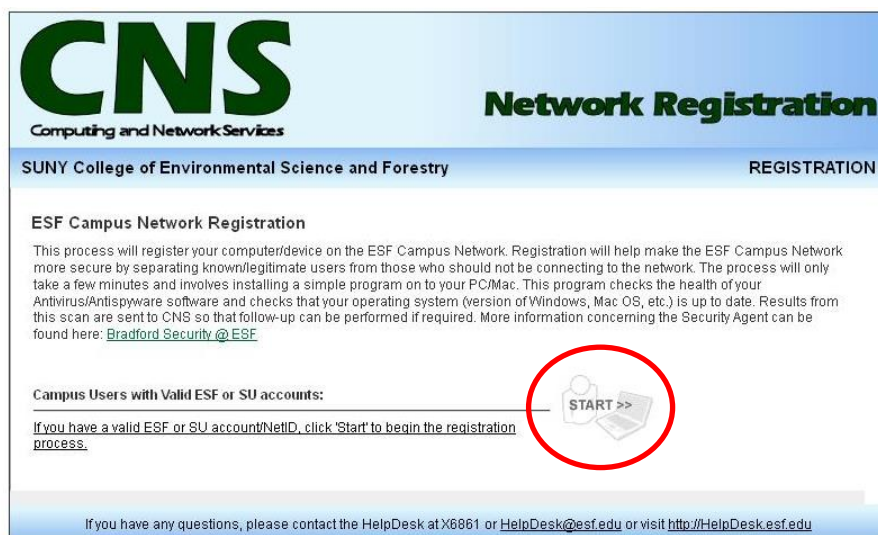


### Step 2 - Navigate to ESF Network registration

Open your browser and navigate to <http://registration.esf.edu/>, The following page will open:



You will then be redirected to the initial registration page:



To begin registration, click on **“START”**.

### Step 3 - Log In to registration

A new page will open. Find the Log In Field at the bottom of the page and input your campus **NetID** and **password** and click **“Log in to continue”**.

Please enter your ESF or SO NetID and password below to begin the ESF Campus Network registration process.

- If you cannot remember your NetID/password, Please contact the ESF HelpDesk at X6861 or [HelpDesk@esf.edu](mailto:HelpDesk@esf.edu) for assistance.

After clicking the **Log in to continue** button below, you will be prompted to download and install the Bradford Persistent Agent. This Agent will be required in the near future to access the ESF Campus Network and it will scan your PC regularly to be certain that it meets the ESF Network Access Standard. Full details about the agent's involvement with ESF's network security structure can be found here: [Bradford Security @ESF](#).

This process will take approximately one to two minutes to complete. Please do not interrupt it while it is running.

#### Log in to continue

Please enter your username and password. Then click the button to download and Install the Bradford Persistent Agent. **After the installation has started, please close this browser window.**

[Instructions](#)

User Name

Password

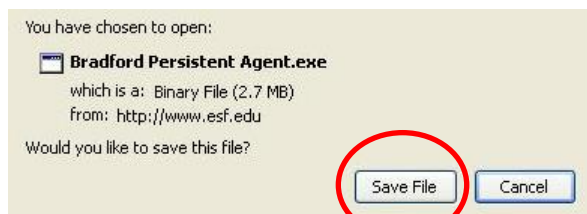
If you have any questions, please contact the HelpDesk at X6861 or [HelpDesk@esf.edu](mailto:HelpDesk@esf.edu) or visit <http://HelpDesk.esf.edu>

After logging in, close out of the browser window.

### Step 4 - Download Bradford Security Agent

A download will start for a **Bradford Persistent Agent**. Ensure you accept the pop-up if your browser blocks pop-ups automatically. This file is security software for your computer. Its purpose is to ensure you have important security updates and protection on your computer. ***In NO WAY does this software collect data or monitor your system.***

**“Save”** and **“Run”** the downloaded file.



### Step 5 - Install Bradford Security Agent

When the download has completed and you run the new file, an installation process will begin. To start the installation you may be required to provide administrative credentials for your device (i.e. enter an administrator username and password). When installation windows opens, click **“Next”**.



Allow the installation process to run and complete. When prompted you will be required to again provide your campus **NetID** and **password**, then select **“Login”**.

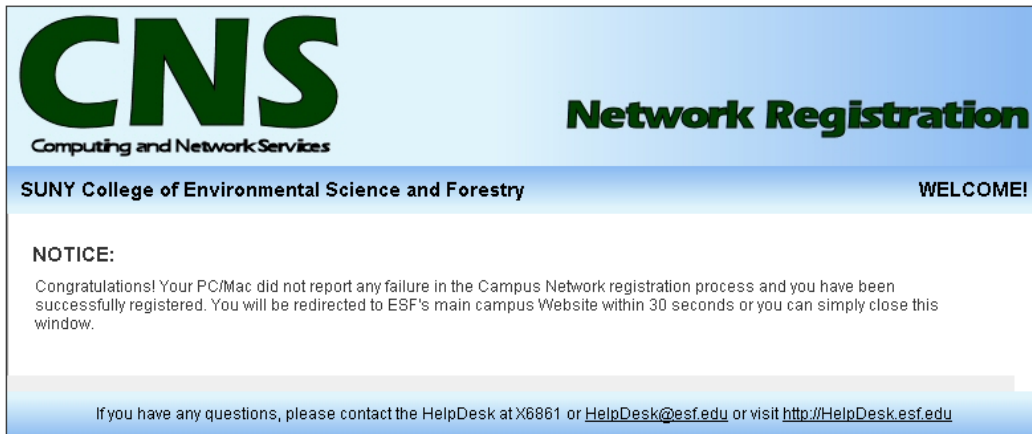
The image shows a login screen for the "SUNY ESF Network Security Agent". It features the Bradford Networks logo at the top. The text "User Information" is followed by the instruction "Please enter your ESF or SU user name and password." There are two input fields: "Username" and "Password". At the bottom, there is a "Login" button and contact information: "CNS Help Desk - HelpDesk@esf.edu - 470-6861".

**Step 6 - Ensure all network standards are met**

Once the installation has completed, return to your browser and again navigate to <http://registration.esf.edu/>.

If your system does not meet all the security requirements, you will be provided a list of instructions and updates to meet the network's standard. Follow the instructions and install the updates to complete registration. Then again return to the registration website. To install updates you may be required to provide administrative credentials for your device (i.e. enter an administrator username and password).

When your device meets the requirements for registration, you will see the following at and your device will have been successfully registered:



The screenshot shows a web page with a light blue background. At the top left, the letters "CNS" are displayed in a large, bold, green font, with "Computing and Network Services" written in a smaller, black font below it. To the right of this, the words "Network Registration" are written in a bold, green font. Below the header, there is a horizontal bar with a light blue gradient. On the left side of this bar, the text "SUNY College of Environmental Science and Forestry" is written in a black font. On the right side, the word "WELCOME!" is written in a bold, black font. Below this bar, the word "NOTICE:" is written in a bold, black font. Underneath "NOTICE:", there is a paragraph of text: "Congratulations! Your PC/Mac did not report any failure in the Campus Network registration process and you have been successfully registered. You will be redirected to ESF's main campus Website within 30 seconds or you can simply close this window." At the bottom of the page, there is a light blue bar containing the text: "If you have any questions, please contact the HelpDesk at X68861 or [HelpDesk@esf.edu](mailto:HelpDesk@esf.edu) or visit <http://HelpDesk.esf.edu>



## **Phases of NAC at ESF:**

### **Phase 1: Pre-registration - COMPLETED**

Passively register unknown domain PCs to their users and install the NAC security agent. This phase is complete at ESF. All PCs joined to either the ESFADMIN or AD domains at ESF/SU have been registered to their users. Additionally, the Bradford Persistent Agent has been installed on all of these PCs. This process started in June of 2011.

### **Phase 2: Initial Registration - IN PROGRESS**

Ask users to register unknown devices, not in either the ESF or SU domain, and install the NAC security agent. This is the current focus of effort at ESF. Users of non-domain PCs and Macs are encouraged to go to <http://registration.esf.edu/>, log in, and install the Bradford Persistent Agent. The Bradford Persistent Agent is a small program that monitors your Antivirus, Antispyware, and Operating System to make sure they stay up to date.

### **Phase 3: Forced Registration - Coming Soon!**

Enforce the registration of unknown devices on the ESF Campus Network. During this phase, unknown devices will be isolated until they are registered to an individual and have the proper security software installed.

### **Phase 4: Actuated System - TBD**

Actively enforce the **ESF Campus Network Access Standard** on all devices connecting the Campus Network.

**Appendix: Acceptable Antivirus/Anti-malware Alternatives****Windows Antispyware\*:**

\* Includes Antivirus packages that have antispyware features

<b>AVG-2011</b>	<b>AVG-2012</b>
<b>AVG-2013</b>	<b>AVG-2014</b>
<b>AVG-8.0</b>	<b>AVG-8.5</b>
<b>AVG-9.0</b>	<b>AVG-Anti-Spyware</b>
<b>Ad-Aware-2007</b>	<b>Ad-Aware-2008</b>
<b>Ad-Aware-Antivirus-10</b>	<b>Authentium-Command-Anti-Malware-5.0</b>
<b>Avast</b>	<b>Avast-Endpoint-Protection-Suite</b>
<b>Avast-Internet-Security</b>	<b>Blink-AV</b>
<b>CA-PestPatrol</b>	<b>Check-Point-Endpoint-Security</b>
<b>Enigma-SpyHunter</b>	<b>Eset-Smart-Security</b>
<b>F-Secure</b>	
<b>Faronics-Anti-Virus-Enterprise-Workstation</b>	
<b>GDATA-Internet-Security-2012</b>	<b>GDATA-Internet-Security-2013</b>
<b>GDATA-Total-Security-2012</b>	<b>GDATA-Total-Security-2013</b>
<b>GFI-Business-Agent</b>	<b>GFI-Vipre-Internet-Security-2012</b>
<b>Kaspersky-Anti-Virus-2009</b>	<b>Kaspersky-Anti-Virus-2010</b>
<b>Kaspersky-Anti-Virus-2011</b>	<b>Kaspersky-Anti-Virus-2012</b>
<b>Kaspersky-Anti-Virus-2013</b>	<b>Kaspersky-Anti-Virus-2014</b>
<b>Kaspersky-Anti-Virus-8-WSEE</b>	<b>Kaspersky-Endpoint-Security-10</b>
<b>Kaspersky-Endpoint-Security-8</b>	<b>Kaspersky-Internet-Security</b>
<b>Kaspersky-Internet-Security-2010</b>	<b>Kaspersky-Internet-Security-2011</b>
<b>Kaspersky-Internet-Security-2012</b>	<b>Kaspersky-Internet-Security-2013</b>
<b>Kaspersky-Internet-Security-2014</b>	<b>Kaspersky-PURE</b>
<b>Kaspersky-PURE-2.0</b>	<b>Kaspersky-PURE-3.0</b>
<b>LANDesk-Antivirus</b>	<b>Lavasoft-Adaware</b>
<b>Lightspeed-Security-Agent</b>	<b>Malwarebytes-Anti-Malware</b>
<b>McAfee-AntiSpyware-Enterprise</b>	<b>McAfee-AntiVirus-Plus</b>
<b>McAfee-AntiVirus-Plus-12</b>	<b>McAfee-Home</b>
<b>McAfee-Internet-Security</b>	<b>McAfee-LiveSafe-12</b>
<b>McAfee-SecurityCenter-12</b>	<b>McAfee-Total-Protection-10</b>
<b>McAfee-Total-Protection-11</b>	<b>McAfee-Total-Protection-12</b>
<b>Microsoft-Forefront</b>	
<b>Microsoft-Forefront-Endpoint-Protection-2010</b>	
<b>Microsoft-Security-Essentials</b>	
<b>Microsoft-System-Center-2012-Endpoint-Protection</b>	
<b>Microsoft-Windows-Defender</b>	<b>Microsoft-Windows-OneCare</b>
<b>Norton-360</b>	<b>Norton-Anti-Virus-2009</b>
<b>Norton-Anti-Virus-2010</b>	<b>Norton-Anti-Virus-2011</b>
<b>Norton-Anti-Virus-2012</b>	<b>Norton-Antivirus-(2013+)</b>
<b>Norton-Internet-Security</b>	<b>Norton-Internet-Security-(2013+)</b>
<b>Norton-Internet-Security-2009</b>	<b>Norton-Internet-Security-2010</b>
<b>Norton-Internet-Security-2011</b>	<b>Norton-Internet-Security-2012</b>

<b>PCTools-Spyware-Doctor</b>	<b>Panda-Global-Protection-2009</b>
<b>Panda-Global-Protection-2010</b>	<b>Panda-Global-Protection-2012</b>
<b>Panda-Internet-Security-2010</b>	<b>Softwin-BitDefender-Antivirus-2010</b>
<b>Softwin-BitDefender-Internet-Security-2010</b>	
<b>Softwin-BitDefender-Internet-Security-2011</b>	
<b>Softwin-BitDefender-Total-Security-2010</b>	
<b>Softwin-BitDefender-Total-Security-2011</b>	
<b>Sophos</b>	<b>SpyBot</b>
<b>Spyware-Blaster</b>	<b>Sunbelt-CounterSpy</b>
<b>Sunbelt-CounterSpy-Enterprise-Agent</b>	<b>Sunbelt-Vipre</b>
<b>Sunbelt-Vipre-Enterprise-Agent</b>	<b>Symantec-Endpoint-Protection</b>
<b>Trend-Micro-AntiSpyware-2008</b>	<b>Trend-Micro-AntiVirus-2009</b>
<b>Trend-Micro-Internet-Security</b>	<b>Trend-Micro-OfficeScan</b>
<b>Trend-Micro-Titanium</b>	<b>Webroot-AntiSpyware-Corporate</b>
<b>Webroot-SecureAnywhere</b>	<b>Webroot-SpySweeper</b>
<b>ZoneAlarm-Extreme-Security</b>	<b>ZoneAlarm-Internet-Security</b>

**Windows Antivirus:**

<b>AVG-2011</b>	<b>AVG-2012</b>
<b>AVG-2013</b>	<b>AVG-2014</b>
<b>AVG-8.0</b>	<b>AVG-8.5</b>
<b>AVG-9.0</b>	<b>Ad-Aware-Antivirus-10</b>
<b>Authentium-Command-AV</b>	<b>Authentium-Command-Anti-Malware-5.0</b>
<b>Avast</b>	<b>Avast-Endpoint-Protection-Suite</b>
<b>Avast-Internet-Security</b>	<b>Avira-AntiVir</b>
<b>Blink-AV</b>	<b>BullGuard</b>
<b>CA-Anti-Virus</b>	<b>Check-Point-Endpoint-Security</b>
<b>Cisco-CSA-AV</b>	<b>ClamWin-AntiVirus</b>
<b>DrWeb</b>	<b>EZ-Trust</b>
<b>Eset-NOD32</b>	<b>F-Prot</b>
<b>F-Secure</b>	
<b>Faronics-Anti-Virus-Enterprise-Workstation</b>	
<b>GDATA-AntiVirusKit</b>	<b>GDATA-Internet-Security-2012</b>
<b>GDATA-Internet-Security-2013</b>	<b>GDATA-Total-Security-2012</b>
<b>GDATA-Total-Security-2013</b>	<b>GFI-Business-Agent</b>
<b>GFI-Vipre-Internet-Security-2012</b>	<b>Grisoft-AVG</b>
<b>Kaspersky</b>	<b>Kaspersky-Anti-Virus-2009</b>
<b>Kaspersky-Anti-Virus-2010</b>	<b>Kaspersky-Anti-Virus-2011</b>
<b>Kaspersky-Anti-Virus-2012</b>	<b>Kaspersky-Anti-Virus-2013</b>
<b>Kaspersky-Anti-Virus-2014</b>	<b>Kaspersky-Anti-Virus-8-WSEE</b>
<b>Kaspersky-Endpoint-Security-10</b>	<b>Kaspersky-Endpoint-Security-8</b>
<b>Kaspersky-Internet-Security</b>	<b>Kaspersky-Internet-Security-2010</b>
<b>Kaspersky-Internet-Security-2011</b>	<b>Kaspersky-Internet-Security-2012</b>
<b>Kaspersky-Internet-Security-2013</b>	<b>Kaspersky-Internet-Security-2014</b>
<b>Kaspersky-PURE</b>	<b>Kaspersky-PURE-2.0</b>
<b>Kaspersky-PURE-3.0</b>	<b>LANDesk-Antivirus</b>
<b>Lightspeed-Security-Agent</b>	<b>Malwarebytes-Anti-Malware</b>
<b>McAfee-AntiVirus-Plus</b>	<b>McAfee-AntiVirus-Plus-12</b>
<b>McAfee-EPO</b>	<b>McAfee-Enterprise</b>
<b>McAfee-Home</b>	<b>McAfee-Internet-Security</b>
<b>McAfee-LiveSafe-12</b>	<b>McAfee-SecurityCenter-12</b>
<b>McAfee-Total-Protection-10</b>	<b>McAfee-Total-Protection-11</b>
<b>McAfee-Total-Protection-12</b>	<b>McAfee-VirusScan-Enterprise-8.7i</b>
<b>McAfee-VirusScan-Enterprise-8.8i</b>	<b>MicroWorld-eScan</b>
<b>Microsoft-Forefront</b>	
<b>Microsoft-Forefront-Endpoint-Protection-2010</b>	
<b>Microsoft-Security-Essentials</b>	
<b>Microsoft-System-Center-2012-Endpoint-Protection</b>	
<b>Microsoft-Windows-Defender</b>	<b>Microsoft-Windows-OneCare</b>
<b>Norman</b>	<b>Norton</b>
<b>Norton-360</b>	<b>Norton-Anti-Virus-2009</b>
<b>Norton-Anti-Virus-2010</b>	<b>Norton-Anti-Virus-2011</b>

<b>Norton-Anti-Virus-2012</b>	<b>Norton-Antivirus-(2013+)</b>
<b>Norton-Internet-Security-(2013+)</b>	<b>Norton-Internet-Security-2009</b>
<b>Norton-Internet-Security-2010</b>	<b>Norton-Internet-Security-2011</b>
<b>Norton-Internet-Security-2012</b>	<b>PCTools-AntiVirus</b>
<b>PCTools-Spyware-Doctor-With-AntiVirus</b>	
<b>Panda</b>	
<b>Panda-Anti-Virus-2010</b>	<b>Panda-Global-Protection-2009</b>
<b>Panda-Global-Protection-2010</b>	<b>Panda-Global-Protection-2012</b>
<b>Panda-Internet-Security-2010</b>	<b>Rising-Antivirus</b>
<b>Softwin-BitDefender</b>	<b>Softwin-BitDefender-Antivirus-2010</b>
<b>Softwin-BitDefender-Internet-Security-2010</b>	
<b>Softwin-BitDefender-Internet-Security-2011</b>	
<b>Softwin-BitDefender-Total-Security-2010</b>	
<b>Softwin-BitDefender-Total-Security-2011</b>	
<b>Sophos</b>	<b>Sunbelt-Vipre</b>
<b>Sunbelt-Vipre-Enterprise-Agent</b>	<b>Symantec-Corporate</b>
<b>Symantec-Endpoint-Protection</b>	<b>Trend-Micro</b>
<b>Trend-Micro-AntiVirus-2007</b>	<b>Trend-Micro-AntiVirus-2008</b>
<b>Trend-Micro-AntiVirus-2009</b>	<b>Trend-Micro-Internet-Security</b>
<b>Trend-Micro-Internet-Security-2008</b>	<b>Trend-Micro-OfficeScan</b>
<b>Trend-Micro-SMB</b>	<b>Trend-Micro-Titanium</b>
<b>Vexira-AV</b>	<b>Webroot-AntiVirus-Corporate</b>
<b>Webroot-SecureAnywhere</b>	<b>Webroot-SpySweeper</b>
<b>ZoneAlarm-Extreme-Security</b>	<b>ZoneAlarm-Internet-Security</b>
<b>eTrust</b>	

**Mac Antivirus:**

**Avast  
ClamXav  
ESET-NOD32-Antivirus-4  
Intego-VirusBarrier-X4  
Intego-VirusBarrier-X6  
Intego-VirusBarrier-X6  
Lightspeed-Security-Agent  
McAfee-Security  
McAfee-VirusScan  
Norton  
PCTools-iAntiVirus  
Sophos  
Trend-Micro-Security**

**Avira-Mac-Security  
ESET-Cybersecurity-for-Mac  
Intego-VirusBarrier-2013  
Intego-VirusBarrier-X5  
Kaspersky-Anti-Virus  
McAfee-Internet-Security  
McAfee-Virex  
Microsoft-SC-2012-Endpoint-Protection  
Norton-AntiVirus-for-Mac-2012  
ProtectMac-AntiVirus  
Symantec-iAntiVirus  
Trend-Micro-Smart-Surfing-for-Mac**