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USE TRUSTED END NODE SECURITY (TENS) formerly LIGHTWEIGHT PORTABLE SECURITY (LPS) TO
DOWNLOAD ACTIVCLIENT or NO INSTALL CAC ACCESS (using your computer with an [Intel](#) processor)

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[Some information about LPS and its benefits](#)

[Featured on ZDNet](#) on 26 SEP 2011

Watch this [video](#) to see what LPS can help you with (once you have it installed following instructions below)

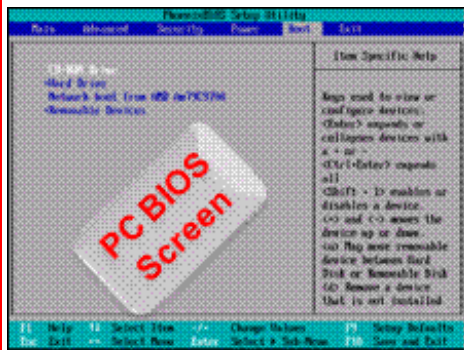
ActivClient (from ActivIdentity) allows your CAC-reader to communicate with Windows for strong authentication using smart cards and Public Key Infrastructure (PKI). If you find ActivClient freely available on the Internet, It's probably malware. ActivClient middleware is only available from within protected .mil sites thus creating a Catch-22; you need ActivClient installed to obtain ActivClient. *Until now!* By using the free [Trusted End Node Security \(TENS\)](#) formerly known as Lightweight Portable Security (LPS) CD (or via USB), you can "CAC-in," download the file(s) to a USB thumb drive, then go back into Windows, and install ActivClient. Here's how....

The following is abbreviated from the DoD Software Protection Initiative's [TENS Quick Start Guide](#) and [TENS User Manual](#) on <https://spi.dod.mil/lipose.htm> and guidance from this site's [ActivClient](#) page. *If you encounter problems, please consult these documents and sites first.*

1. Create a bootable TENS-Public CD.

- a) Download and save the TENS-Public ISO image from <https://spi.dod.mil/lipose.htm>.
- b) Burn the .ISO file to a blank CD following these instructions: <https://spi.dod.mil/burn.htm>
- c) If the computer does not have a CD drive, TENS-Public contains a Windows script to make TENS-Public boot from a USB thumb drive. You'll need to mount the .iso (make it appear to be a CD to the computer) in order to run the script.

Watch [YouTube video](#) on setting up TENS / LPS to use USB flash drive



2. Prepare your computer. Insert the TENS-Public CD, connect a network cable to your computer's home network (if using Wi-Fi, wait until step 4), connect a USB CCID-compliant smartcard reader (examples: [SCR-331](#), [3310](#), & [3500](#)), and insert your CAC into the reader. Have a USB thumb drive ready.

3. Restart your computer with the TENS CD in the drive. If TENS-Public doesn't boot automatically, configure your computer to boot from CD. On a PC, change the boot priority to CD *before* the hard drive in the Boot Order menu or BIOS (image on left). On an [Intel processor based] Mac, hold down the "c" key immediately after hitting the power button.



4. If using Wi-Fi: Configure the Network Manager (screen's lower right 2 PC icon)

5. If you have an SCR-331 CAC Reader, this is an excellent opportunity to update the firmware on the reader, read instructions at paragraph 5.6 on PDF [page 36](#) (document page 34)

6. Insert your USB thumb drive to save your ActivClient onto. A shortcut should appear on the desktop.



7. Launch Firefox, Click DoD, Common Access Card (CAC) Information. CAC login to your military branch (links below), and download ActivClient. (If it fails, reloading the page may help). Save the file to your thumb drive.

Direct Download links to obtain ActivClient are listed below:

Army (32-bit - 6.2.0.50) - <https://www.us.army.mil/suite/files/21154519>

Army (64-bit - 6.2.0.50) - <https://www.us.army.mil/suite/files/21154526>

Air Force - <https://www.my.af.mil/gcss-af/afp40/USAF/ep/contentView.do?contentType=EDITORIAL&contentId=1372765&programId=1316325&pageId=9374&channelPageId=-1073755231>

Coast Guard - https://cgportal2.uscg.mil/units/tiscom/Documents/remote_access.htm **NOTE:** Requires CAC login

from your work computer

Marine Corps - <https://www.mcnosc.usmc.mil/s3/PKI/Pages/CACforHomeUse.aspx>

Navy - https://private.navyreserve.navy.mil/cnrfc/N-Codes/N6/Information Assurance/ActivClient 6.2/ActivClient_6.2.zip

ActivClient updates from 6.2.0.50 (needed for newer CACs like the Oberthur ID One 128 v5.5 Dual) can be downloaded from links on: <http://militarycac.com/activclient62update.htm>

NOTE: In Firefox, Master Password equates to your **CAC PIN**

8. Download the latest DoD certificates <https://militarycac.com/dodcerts.htm>

9. To quit, remove the CD and restart computer to return to your normal, unchanged Operating System. Keep the LPS-Public CD for travel, when using other computers, and in the event your hard drive crashes.

10. Install in Windows. Instructions for installing [DoD certificates](#) and [ActivClient](#) on your Windows computer. Single page: <https://MilitaryCAC.com/notes.htm>

If you have questions or suggestions for this site, [contact](#) Michael J. Danberry
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The following domain names all resolve to the same website: ChiefsCACSite.com, CommonAccessCard.us, CommonAccessCard.info, & ChiefGeek.us