# Installing DOD Certificates

Infrastructure & Installation Resilience

Our sites utilize SSL protection to help secure our content. Access to certain areas requires that a site security certification is loaded into your browser. Other areas can be accessed only if you have a DoD Public Key Infrastructure (PKI) or Common Access Cards (CAC) installed in your browser. Portions of other websites also require PKI/CAC certificates for access. There are two methods to avoid site certificate error messages:

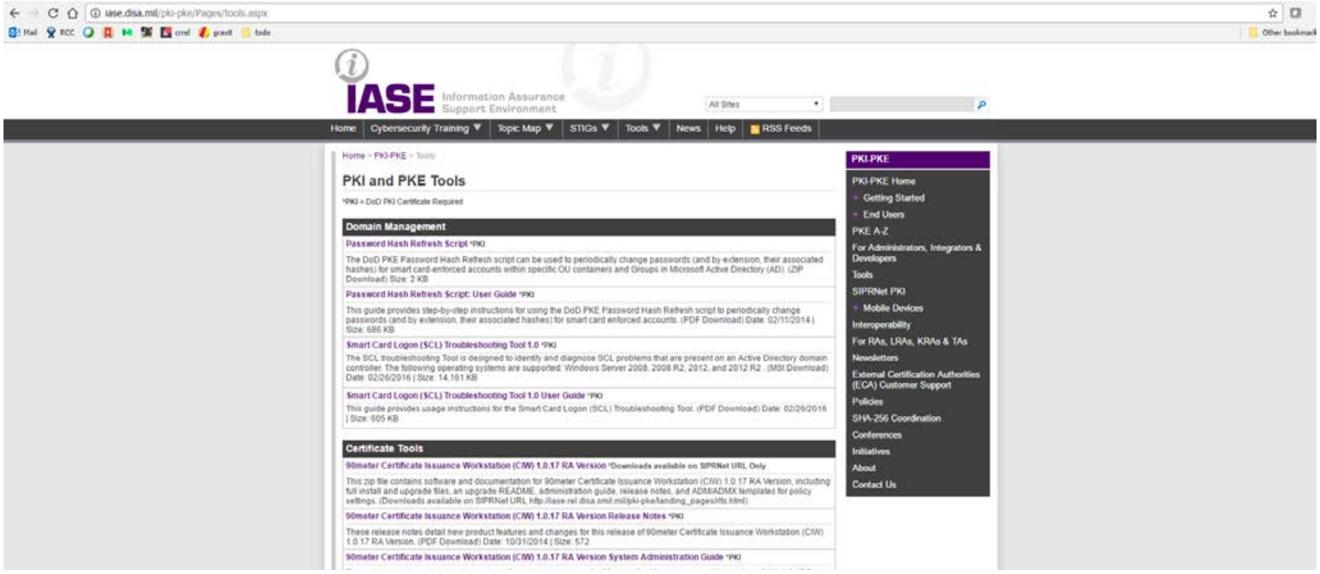
1. Add an exception for the website (Mozilla Firefox only) or create a Trusted Site (Internet Explorer only).
2. Install a DoD Root CA 2 Certificate (preferred).

Importing the DoD Root CA 2 Certificate takes roughly 2 minutes and is the more thorough solution. You should only have to import it once per browser.

## Contents

## Downloading DoD CA certificates

**STEP 1:** Please access: [http://iase.disa.mil/pki-pke/Pages/tools.aspx](http://iase.disa.mil/pki-pke/Pages/tools.aspx)



PKI and PKE Tools

*PKI = DoD PKI Certificate Required

Domain Management

Password Hash Refresh Script *PKI

The DoD PKE Password Hash Refresh script can be used to periodically change passwords (and by extension, their associated hashes) for smart card-enforced accounts within specific OU containers and Groups in Microsoft Active Directory (AD). (ZIP Download) Size: 2 KB

Password Hash Refresh Script: User Guide *PKI

This guide provides step-by-step instructions for using the DoD PKE Password Hash Refresh script to periodically change passwords (and by extension, their associated hashes) for smart card enforced accounts. (PDF Download) Date: 02/11/2014 | Size: 686 KB

Smart Card Logon (SCL) Troubleshooting Tool 1.0 *PKI

The SCL troubleshooting Tool is designed to identify and diagnose SCL problems that are present on an Active Directory domain controller. The following operating systems are supported: Windows Server 2008, 2008 R2, 2012, and 2012 R2 . (MSI Download) Date: 02/26/2016 | Size: 14,161 KB

Smart Card Logon (SCL) Troubleshooting Tool 1.0 User Guide *PKI

This guide provides usage instructions for the Smart Card Logon (SCL) Troubleshooting Tool. (PDF Download) Date: 02/26/2016 | Size: 605 KB

Certificate Tools

90meter Certificate Issuance Workstation (CIW) 1.0.17 RA Version *Downloads available on SIPRNet URL Only

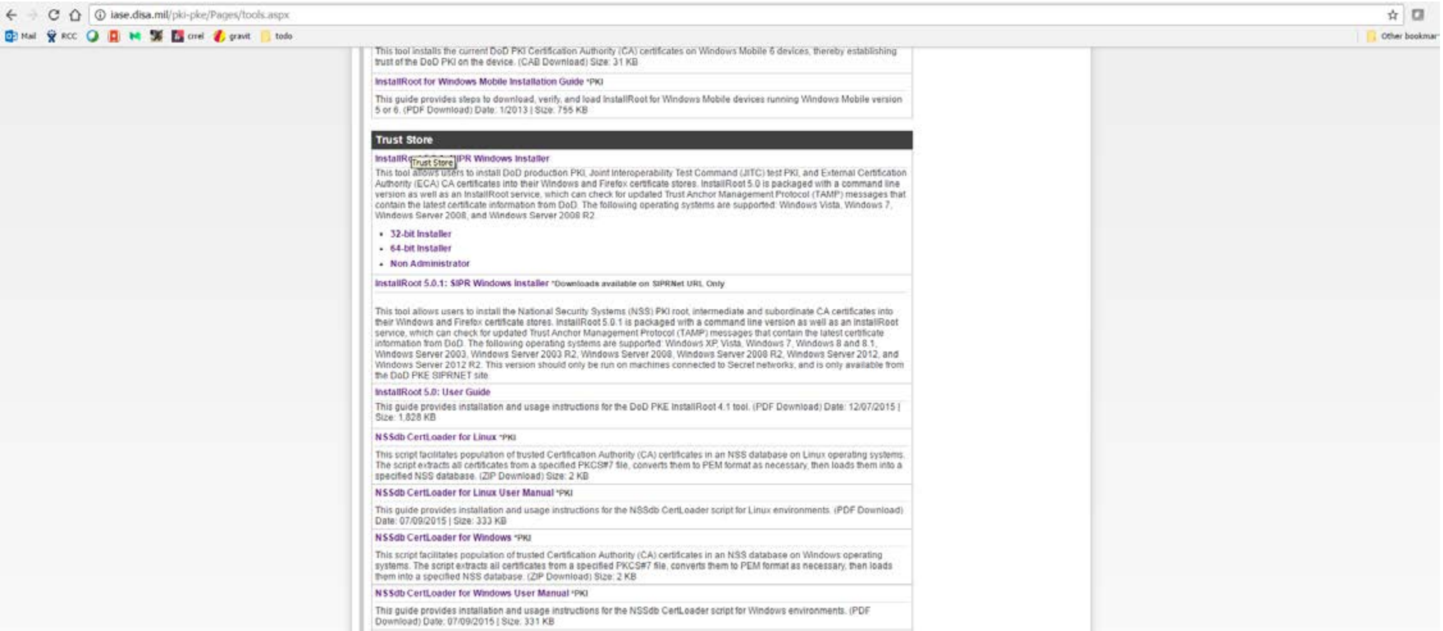
This zip file contains software and documentation for 90meter Certificate Issuance Workstation (CIW) 1.0.17 RA Version, including full install and upgrade files, an upgrade README, administration guide, release notes, and ADM/ADMX templates for policy settings. (Downloads available on SIPRNet URL http://iase.rel.disa.smil.mil/pki-pke/landing_pages/rts.html)

90meter Certificate Issuance Workstation (CIW) 1.0.17 RA Version Release Notes *PKI

These release notes detail new product features and changes for this release of 90meter Certificate Issuance Workstation (CIW) 1.0.17 RA Version. (PDF Download) Date: 10/31/2014 | Size: 572

90meter Certificate Issuance Workstation (CIW) 1.0.17 RA Version System Administration Guide *PKI

**STEP 2:** Select the heading for “Trust Store.”



This tool installs the current DoD PKI Certification Authority (CA) certificates on Windows Mobile 6 devices, thereby establishing trust of the DoD PKI on the device. (CAB Download) Size: 31 KB

**InstallRoot for Windows Mobile Installation Guide** *PKI

This guide provides steps to download, verify, and load InstallRoot for Windows Mobile devices running Windows Mobile version 5 or 6. (PDF Download) Date: 1/2013 | Size: 755 KB

**Trust Store**

**InstallR**Trust Store**IPR Windows Installer**

This tool allows users to install DoD production PKI, Joint Interoperability Test Command (JITC) test PKI, and External Certification Authority (ECA) CA certificates into their Windows and Firefox certificate stores. InstallRoot 5.0 is packaged with a command line version as well as an InstallRoot service, which can check for updated Trust Anchor Management Protocol (TAMP) messages that contain the latest certificate information from DoD. The following operating systems are supported: Windows Vista, Windows 7, Windows Server 2008, and Windows Server 2008 R2.

- 32-bit Installer
- 64-bit Installer
- Non Administrator

**InstallRoot 5.0.1: SIPR Windows Installer** *Downloads available on SIPRNet URL Only

This tool allows users to install the National Security Systems (NSS) PKI root, intermediate and subordinate CA certificates into their Windows and Firefox certificate stores. InstallRoot 5.0.1 is packaged with a command line version as well as an InstallRoot service, which can check for updated Trust Anchor Management Protocol (TAMP) messages that contain the latest certificate information from DoD. The following operating systems are supported: Windows XP, Vista, Windows 7, Windows 8 and 8.1, Windows Server 2003, Windows Server 2003 R2, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, and Windows Server 2012 R2. This version should only be run on machines connected to Secret networks, and is only available from the DoD PKE SIPRNET site.

**InstallRoot 5.0: User Guide**

This guide provides installation and usage instructions for the DoD PKE InstallRoot 4.1 tool. (PDF Download) Date: 12/07/2015 | Size: 1,828 KB

**NSSdb CertLoader for Linux** *PKI

This script facilitates population of trusted Certification Authority (CA) certificates in an NSS database on Linux operating systems. The script extracts all certificates from a specified PKCS#7 file, converts them to PEM format as necessary, then loads them into a specified NSS database. (ZIP Download) Size: 2 KB

**NSSdb CertLoader for Linux User Manual** *PKI

This guide provides installation and usage instructions for the NSSdb CertLoader script for Linux environments. (PDF Download) Date: 07/09/2015 | Size: 333 KB

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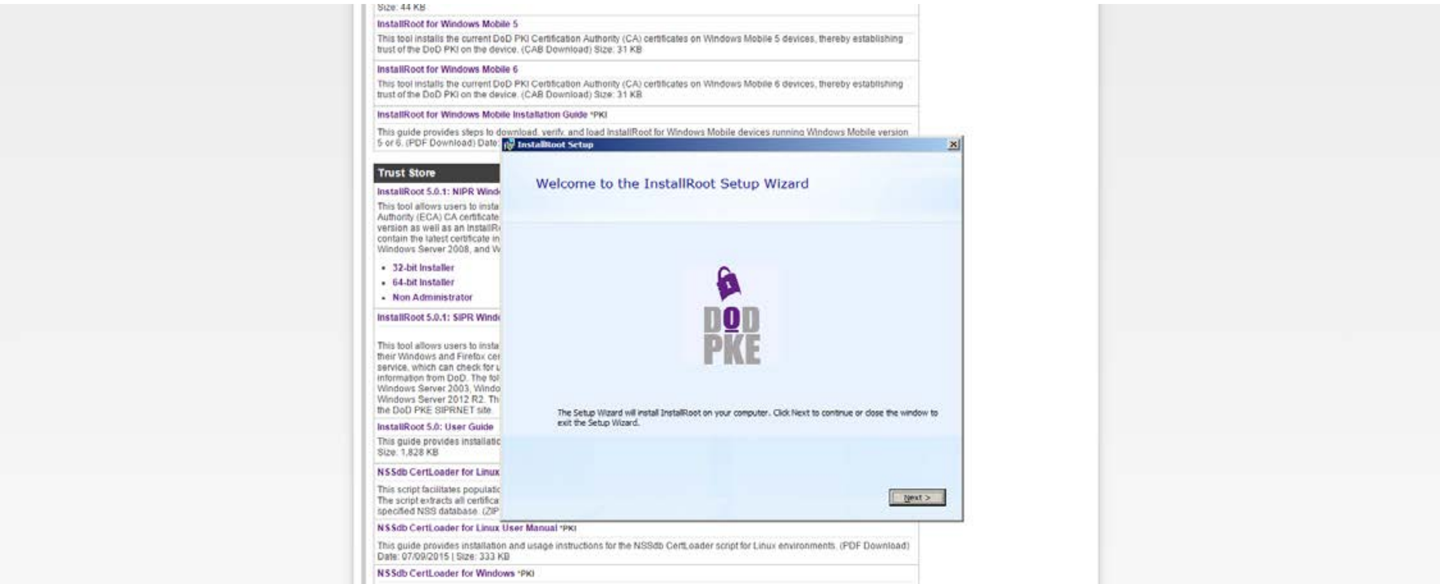
**NSSdb CertLoader for Windows User Manual** *PKI

This guide provides installation and usage instructions for the NSSdb CertLoader script for Windows environments. (PDF Download) Date: 07/09/2015 | Size: 331 KB

**STEP 3:** Under the heading for “InstallRoot 5.0.1 NIPR Windows Installer,” please select the link for “Non Administrator.”

**STEP 4:** You will be prompted to Open/Run/Save the installation file, “InstallRoot_NonAdmin_5.0.1x32_NonAdmin.msi.” The need to save is not required, so it is your preference on which of the available options you choose.

**STEP 5:** Upon opening the InstallRoot_NonAdmin_5.0.1x32_NonAdmin.msi file, you will be presented with the InstallRoot Setup Wizard. Simply choose "Next" after reading each step of the Wizard.



Size: 44 KB

**InstallRoot for Windows Mobile 5**

This tool installs the current DoD PKI Certification Authority (CA) certificates on Windows Mobile 5 devices, thereby establishing trust of the DoD PKI on the device. (CAB Download) Size: 31 KB

**InstallRoot for Windows Mobile 6**

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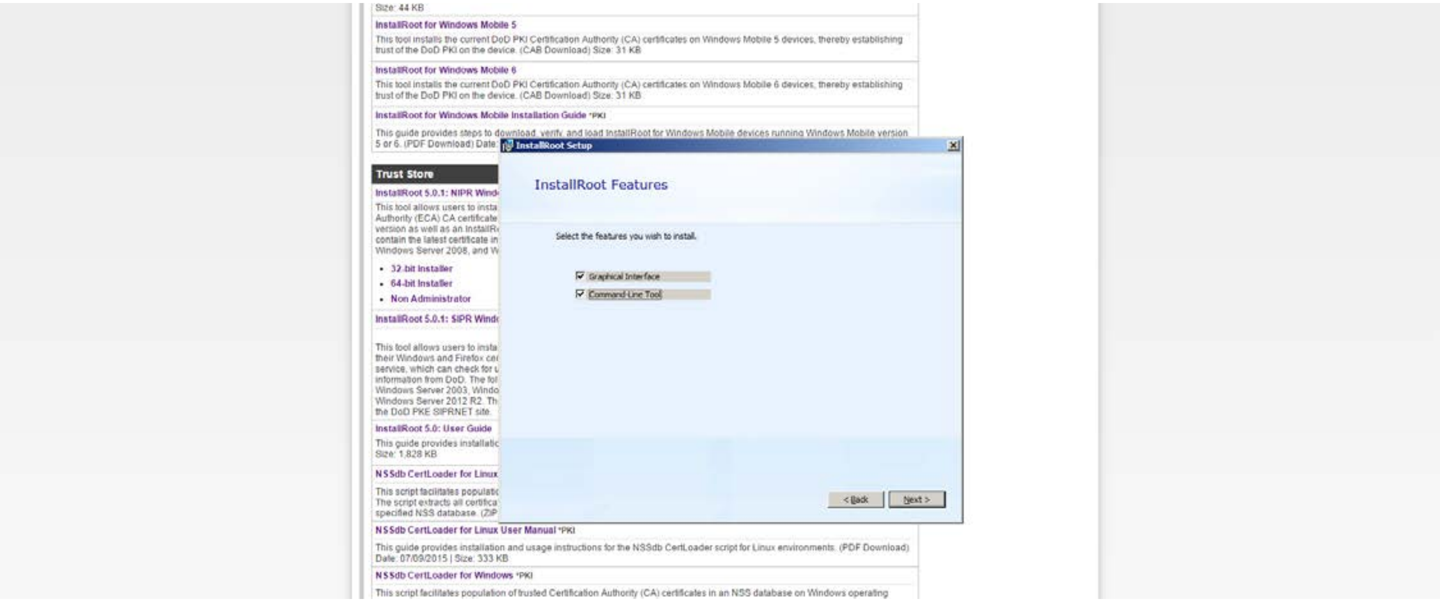
**NSSdb CertLoader for Windows** *PKI

Welcome to the InstallRoot Setup Wizard

The Setup Wizard will install InstallRoot on your computer. Click Next to continue or close the window to exit the Setup Wizard.

**STEP 6:** When prompted to select the features you wish to install, ensure that *at least* the "Graphical Interface" is checked. Afterwards, click on "next" and then "install."



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This script facilitates population of trusted Certification Authority (CA) certificates in an NSS database on Windows operating

InstallRoot Setup

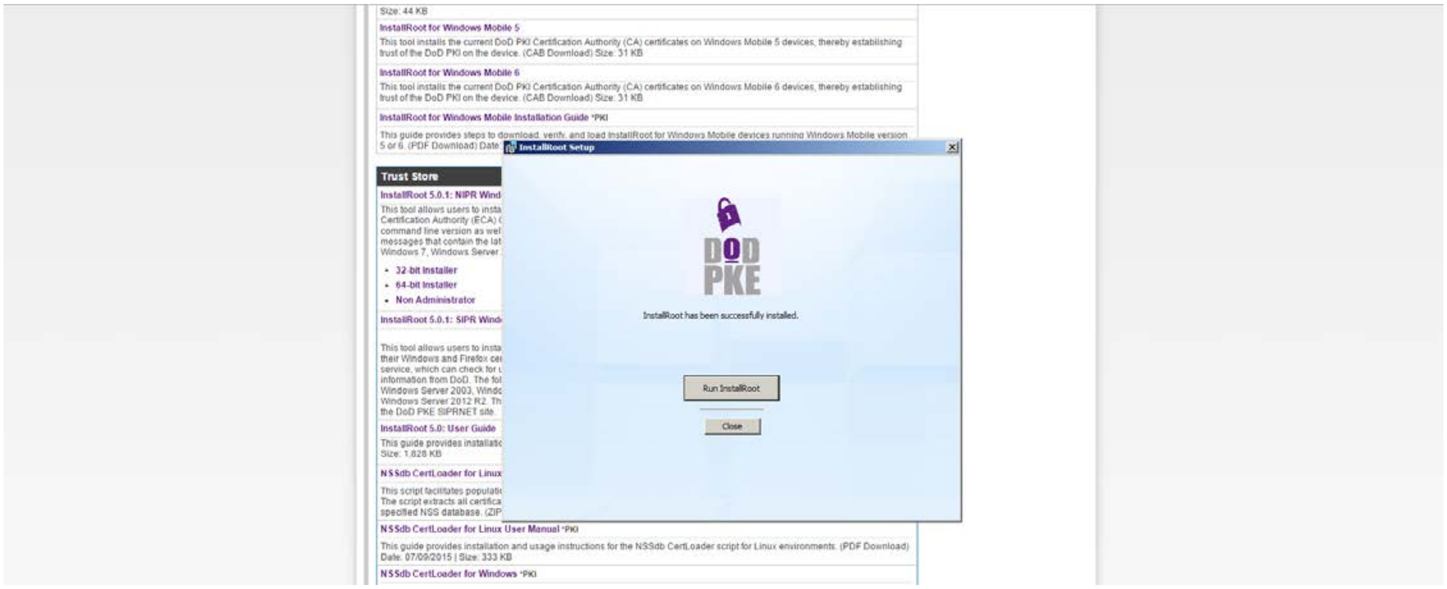
InstallRoot Features

Select the features you wish to install.

☑ Graphical Interface

☑ Command-Line Tool

**STEP 7:** After the installation of the tool is complete, click "Run InstallRoot."



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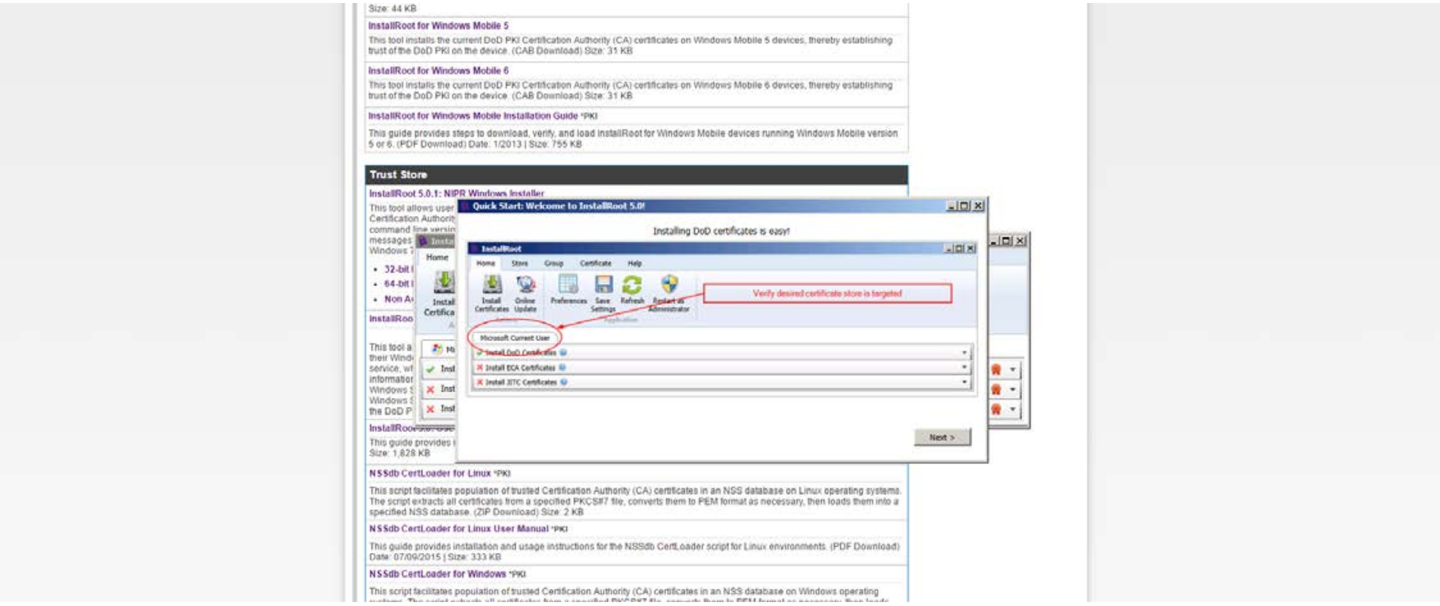
InstallRoot Setup

InstallRoot has been successfully installed.

**STEP 8:** At this point, you may be prompted to add the certificates to Firefox (if installed on your computer). It is recommended that you select "Yes," but if you primarily use Internet Explorer, this is not required. You may also be prompted to allow InstallRoot to manage Java certificates. Select No.

**STEP 9:** A "Quick Start" screen will appear showing screenshots of the final steps you will need to take to complete the installation. Please read the red text instructions within these screenshots and choose "Next" until you're able to select "Finish."



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Trust Store

InstallRoot 5.0.1: NIPR Windows Installer

Quick Start: Welcome to InstallRoot 5.0!

Installing DoD certificates is easy!

Verify desired certificate store is targeted

Microsoft Current User

✓ Install DoD Certificates

✗ Install ECA Certificates

✗ Install JITC Certificates

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This script facilitates population of trusted Certification Authority (CA) certificates in an NSS database on Windows operating

**STEP 10:** After selecting "Finish," you should be presented with a Microsoft Current User tab and, if you chose to install certificates to Firefox as indicated in step #8, a Firefox tab should also appear for each Firefox profile on your computer. Please look under each of these tabs and make sure that "Install DoD Certificates" has a green checkmark. The other certificates (ECA and JITC) are not required.

**STEP 11:** Click on the "Install Certificates" button.

**Note**: If you experience any difficulty installing these certificates on a work-issued computer, please consult your local IT group and ask them to install the administrator version of InstallRoot that's available for download on the same website identified in step #1.

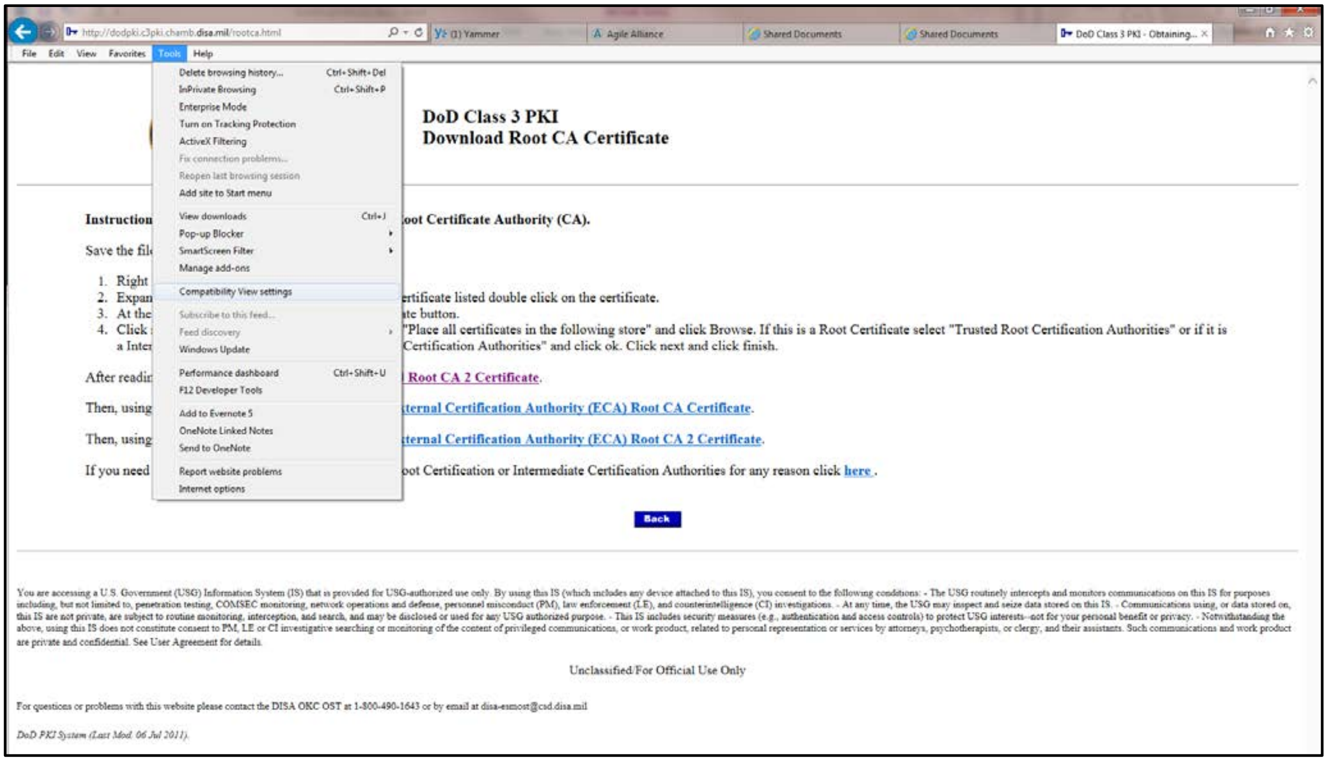
**STEP 12:** When finished, close and re-open your browser. Test that the installation was successful by navigating to https://www.iad.gov/events/conferences/register/LoginType.cfm. If successful, you will not receive a pop-up window, although you may see a Security Alert. Click **OK** or **Yes**.

## Appendix A: Turning On Compatibility Mode in Internet Explorer.

**STEP 1:** If the Menu bar is not displayed, display it using either method listed below:

- Press the Alt key on your keyboard.
- Right-click in the space to the right of the Address bar, then click on the **Menu bar**.

**STEP 2:** In the Menu bar, click on **Tools**, and then click on **Compatibility View settings**.



**DoD Class 3 PKI**
**Download Root CA Certificate**

**Instruction** **oot Certificate Authority (CA).**

Save the fil

1. Right
2. Expan ertificate listed double click on the certificate.
3. At the ate button.
4. Click "Place all certificates in the following store" and click Browse. If this is a Root Certificate select "Trusted Root Certification Authorities" or if it is a Inter Certification Authorities" and click ok. Click next and click finish.

After readi **Root CA 2 Certificate**.

Then, using **ternal Certification Authority (ECA) Root CA Certificate**.

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If you need oot Certification or Intermediate Certification Authorities for any reason click **here** .

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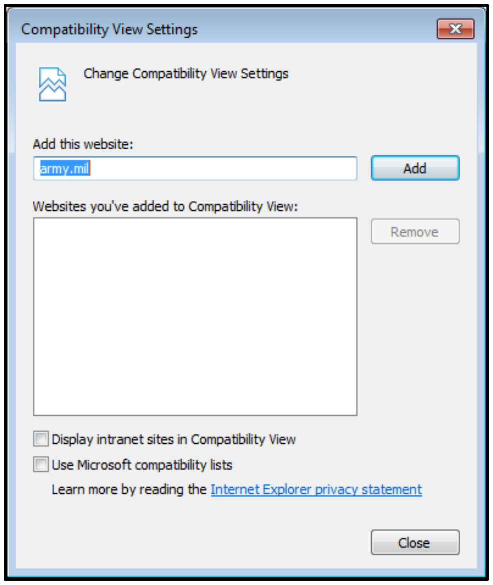
*DoD PKI System (Last Mod: 06 Jul 2011).*

**STEP 3:** Internet Explorer will open the **Compatibility View Settings** pop-up window. Checkbox options are displayed at the bottom of the pop-up. Options will be different in different versions of Internet Explorer.

If it is **not** checked, click on the checkbox for **Display intranet sites in Compatibility View**.



Compatibility View Settings

Change Compatibility View Settings

Add this website: army.mil

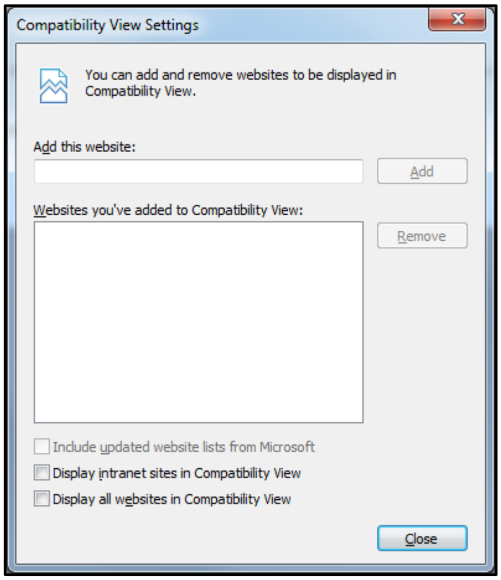
Websites you've added to Compatibility View:

☐ Display intranet sites in Compatibility View

☐ Use Microsoft compatibility lists

Learn more by reading the Internet Explorer privacy statement

*Internet Explorer 11*



Compatibility View Settings

You can add and remove websites to be displayed in Compatibility View.

Add this website:

Websites you've added to Compatibility View:

☐ Include updated website lists from Microsoft

☐ Display intranet sites in Compatibility View

☐ Display all websites in Compatibility View

*Internet Explorer 10*

**STEP 4:** Click **Add** to add the DOD site to Compatibility View. Click **Close** at the bottom of the pop-up window.

**STEP 5:** Internet Explorer will close the *Compatibility View Settings* pop-up window and automatically refresh your open tab. The warning encountered earlier will no longer be displayed. Login and download the certificates as outlined above.

# Appendix B: Turning Off Compatibility Mode in Internet Explorer

**STEP 1:** If the Menu bar is not displayed, display it using either method listed below:

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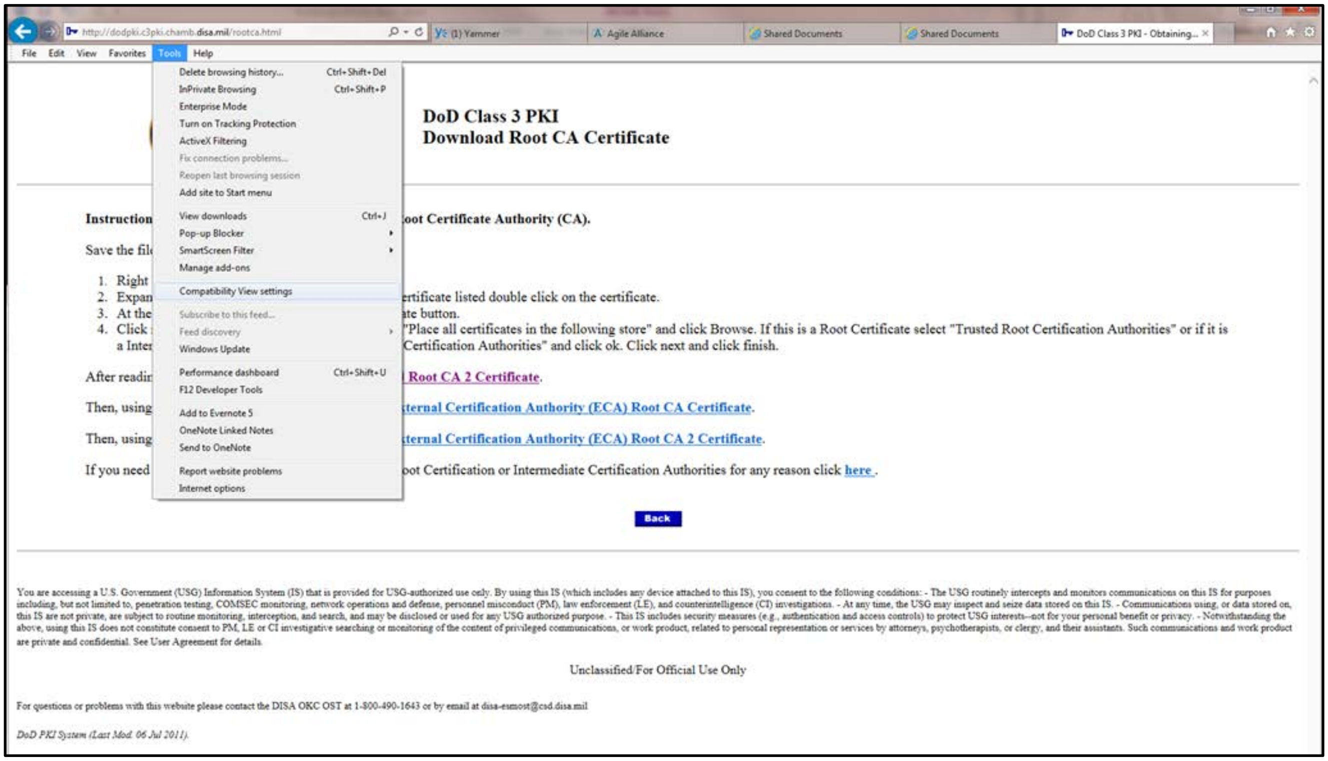

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Then, using ... ternal Certification Authority (ECA) Root CA Certificate.

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If you need ... oot Certification or Intermediate Certification Authorities for any reason click here .

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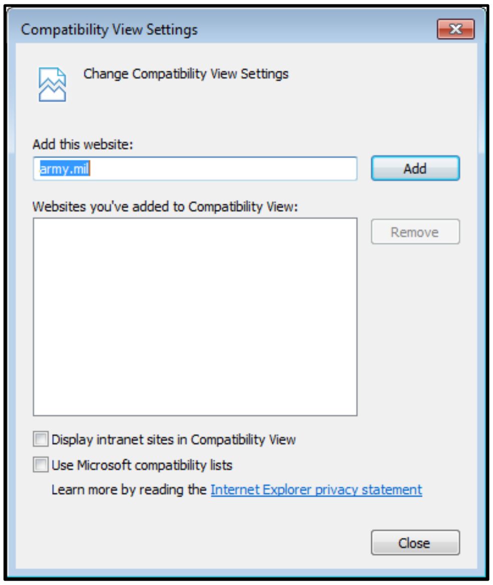

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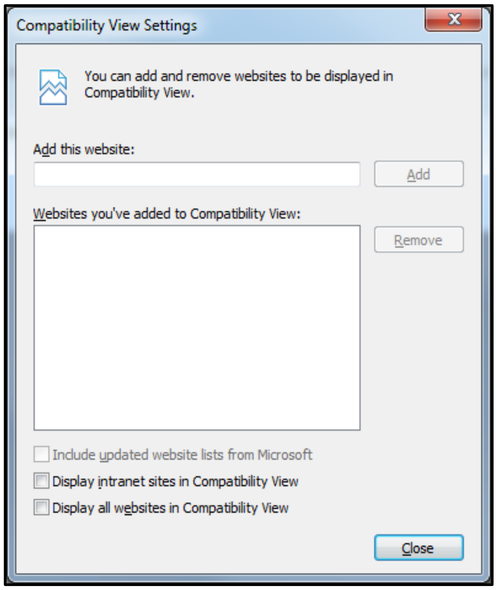

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*Internet Explorer 10*

**STEP 4:** Click **Close** at the bottom of the pop-up window.

**STEP 5:** Internet Explorer will close the Compatibility View Settings pop-up window and automatically refresh your open tab.

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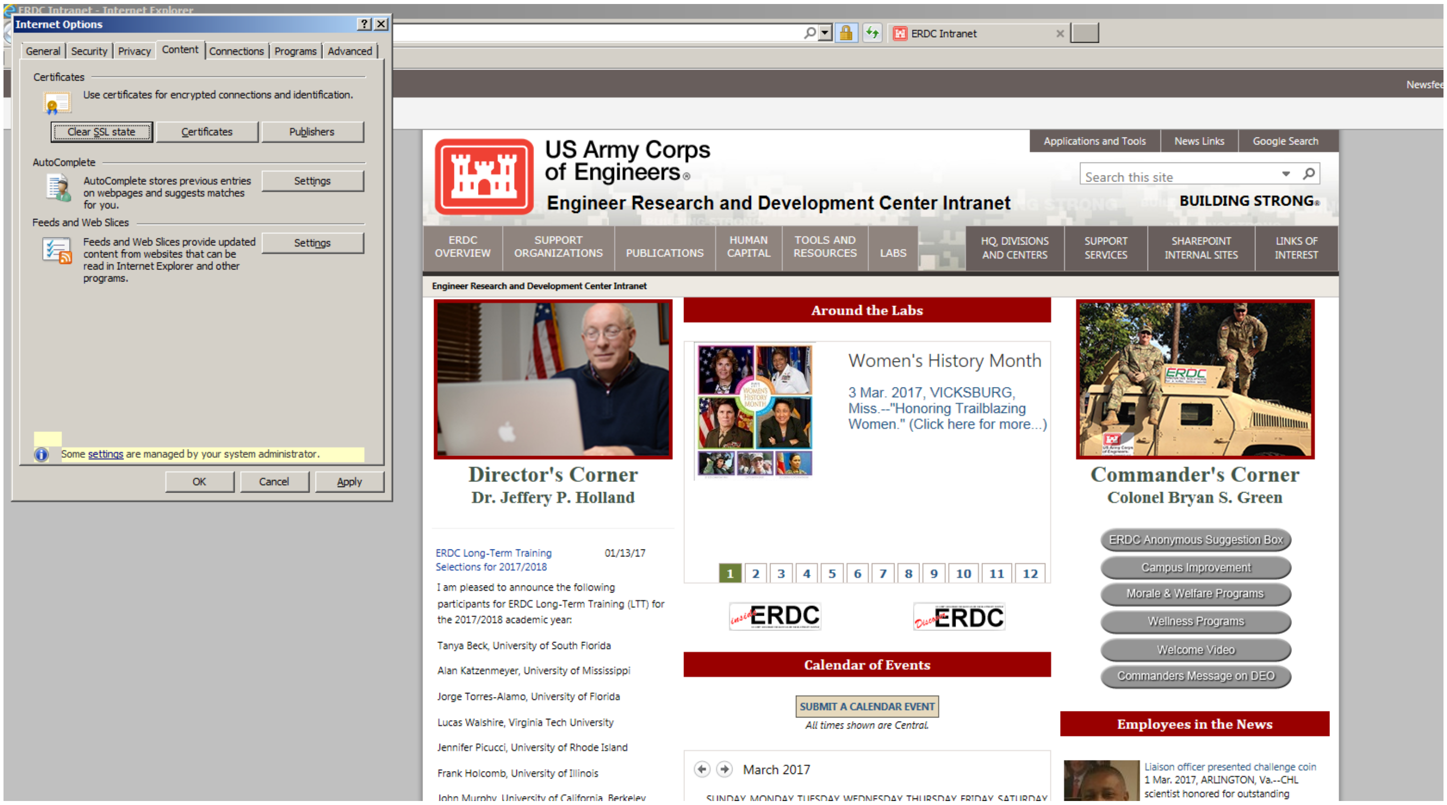
## Resolving Cross-Certificate Issue

**STEP 1:** Open Internet Explorer.

**STEP 2:** Clear the browser cache by navigating to Internet Options > Content > Clear SSL state



Internet Options

Certificates

Use certificates for encrypted connections and identification.

AutoComplete

AutoComplete stores previous entries on webpages and suggests matches for you.

Feeds and Web Slices

Feeds and Web Slices provide updated content from websites that can be read in Internet Explorer and other programs.

Some settings are managed by your system administrator.

US Army Corps of Engineers®

Engineer Research and Development Center Intranet

BUILDING STRONG®

Engineer Research and Development Center Intranet

Director's Corner

Dr. Jeffery P. Holland

ERDC Long-Term Training Selections for 2017/2018 01/13/17

I am pleased to announce the following participants for ERDC Long-Term Training (LTT) for the 2017/2018 academic year:

Tanya Beck, University of South Florida

Alan Katzenmeyer, University of Mississippi

Jorge Torres-Alamo, University of Florida

Lucas Walshire, Virginia Tech University

Jennifer Picucci, University of Rhode Island

Frank Holcomb, University of Illinois

John Murphy, University of California, Berkeley

Around the Labs

Women's History Month

3 Mar. 2017, VICKSBURG, Miss.--"Honoring Trailblazing Women." (Click here for more...)

Calendar of Events

All times shown are Central.

March 2017

SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY

Commander's Corner

Colonel Bryan S. Green

Employees in the News

Liaison officer presented challenge coin

1 Mar. 2017, ARLINGTON, Va.--CHL scientist honored for outstanding

**STEP 3:** Under Tools > Internet Options > Content > Certificates > Intermediate Certificate Authorities.

**STEP 4:** Look in the “Issued to” and “Issued by” columns for any certificates that have the word “Interoperability”. There are probably at least two certificates with that word you would find.

**STEP 5:** Delete these certificates.

**STEP 6:** Close Internet Explorer.

**STEP 7:** Reopen Internet Explorer.