Office of Environment Safety, Health and Security

PIV/PIV-I authentication guide for the AUs Reporting Database Systems
# Table of Contents

TABLE OF CONTENTS

1. Overview ................................................................. 5
2. Types of Smart Card Readers and Installation .................. 5
3. Install the External Reader on a PC .............................. 6
4. Linking your PIV card to an existing web application account from your Windows Desktop or Laptop .... 7
5. Linking your PIV card to an existing web application account from your Mac Desktop or Laptop .......... 10
Appendix A: Removing Incorrect certificate from Windows ................................................................. 14
Appendix B: Removing Incorrect Certificate from Mac ........................................................................... 14
1  OVERVIEW

As mandated by the Homeland Security Presidential Directive 12 (HSPD-12), Office of Management and Budget (OMB) M 05-24, and Department of Energy (DOE) O 206.2, the Office of the Chief Information Office (OCIO) Office of Environment, Health, Safety and Security (EHSS) has implemented software and configuration changes that will obligate users to log on to their web applications with their HSPD-12 credentials.

The tables below list Internet browser and operating system versions tested for their functionality with PIV/PIV-I cards.

PIV is for civilian users working for the Federal government
PIV-I is for non-Federal entities that need to access government systems. PIV-I cards do not require a clearance but do still meet requirements below.

Only PIV or PIV-I cards that meet the following criteria will be accepted by the system:

• Follow FIPS 201 compliant;
• Follow Federal Bridge cross-certification certificate policy;
• Follow SP 800-73;

Please contact your local badging office to request a card issued to you.

<table>
<thead>
<tr>
<th>Browser</th>
<th>Version</th>
<th>Functions with PIV/PIV-I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Internet Explorer</td>
<td>11.0.9600.18449</td>
<td>Yes</td>
</tr>
<tr>
<td>Google Chrome</td>
<td>52.0.02743.82 m</td>
<td>Yes</td>
</tr>
<tr>
<td>Mozilla Firefox</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Safari</td>
<td>6.3.2 and above</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Version</th>
<th>Functions with PIV/PIV-I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows</td>
<td>7.0 and above</td>
<td>Yes</td>
</tr>
<tr>
<td>Mac</td>
<td>10.10.2 and above</td>
<td>Yes</td>
</tr>
</tbody>
</table>

2  TYPES OF SMART CARD READERS AND INSTALLATION

The three types of smart card readers used in the DOE environment are displayed below. To learn more about card readers, refer to Powerpedia page: HTTPS://POWERPEDIA.ENERGY.GOV/WIKI/SMART_CARD_READER.
3 INSTALL THE EXTERNAL READER ON A PC
To install the external card reader, connect the card reader to your workstation. The card reader self-installs. To view the status of the installed card reader, go to the lower left of the Windows screen. Select Start ➔ Devices and Printers.
4 LINKING YOUR PIV CARD TO AN EXISTING WEB APPLICATION ACCOUNT FROM YOUR WINDOWS DESKTOP OR LAPTOP

1. Once the card reader has been installed, insert your PIV/PIV-I card into the reader
2. Open web browser, type https://au-piv-registration.doe.gov and press Enter
3. Select “Link your HSPD-12 Card”

4. A certificate box displays.
5. To determine the correct certificate is being used, select *Click here to view certificate properties*. Select the *Detail* tab.
   a. Scroll down and select *Enhanced Key Usage* and look for Smart Card Logon as shown below.

   ![Certificate properties](image)

   b. After verifying the certificate, select **OK**.

   *Note: The application does not ask for your PIN after your initial login because it was cached. You MUST close the browser to complete the log out process.*

6. Type your PIN and press **Enter**.

7. You will be presented with a login screen. Please login using your AU Reporting database username and password to link your PIV/PIV-I card.
8. Upon successful authentication, you will be presented with a success screen, listing all applications where you currently have account and will have to use your PIV/PIV-I card for access.
5 LINKING YOUR PIV CARD TO AN EXISTING WEB APPLICATION ACCOUNT FROM YOUR MAC DESKTOP OR LAPTOP

If you are a Mac user and want to access AU Reporting Databases using your PIV card, you must have the operating system, X Yosemite 10.10.2 or higher and Centrify Express for Smartcard installed.

1. Complete the form at HTTP://WWW.CENTRIFY.COM/EXPRESS/SMART-CARD-FORM and accept the End User License Agreement. Select Download Now to see Centrify Express for Smartcard.

   a.

2. Select Download for Mac OS 10.7, 10.8, 10.9, 10.10.
3. 
4. **Install** Centrify Express for Smartcard.
5. To verify that Centrify Express for Smartcard is installed, select the **Launchpad**. Find the **Smart Card Assistant**.

6. Insert the card reader.
7. Insert your PIV card.
8. Open Safari and type **https://au-piv-registration.doe.gov/**
9. Select “Link your HSPD-12 Card”
10. You are prompted to select a certificate. Select **Show Certificate** and scroll down to Purpose #2 Smartcard Logon.

11. After verifying the certificate, select **Continue**.
   a. Centrify Express for Smartcard stores this option in the keychain, and you are not prompted to select the certificate again.
   b. If you accidentally select the wrong certificate, see Appendix B for the steps to remove the certificate from the Centrify Express for Smartcard keychain.

12. At the next prompt, type your PIV card PIN, which is your keychain password. Select **OK**.
13. You will be presented with a login screen. Please login using your AU Reporting database username and password to link your PIV/PIV-I card.

14. Upon successful authentication, you will be presented with a success screen, listing all applications where you currently have account and will have to use your PIV/PIV-I card for access.
APPENDIX A: REMOVING INCORRECT CERTIFICATE FROM WINDOWS

If you select the wrong certificate after entering your PIN the following may happen:

- an error message states the page cannot be displayed
- 403.7 Error page

Repeating PIN prompts

1. In Internet Explorer, please go to, Tools -> Internet Options. Under the Content Tab, click the “Clear SSL state” button.
2. Close the browser.
3. Remove your PIV card from the reader, then re-insert it.
4. Open the browser again.
5. Go back to the logon instructions to select the correct certificate.

Contact DL-AU-RDS@hq.doe.gov for further support and troubleshooting assistance.

APPENDIX B: REMOVING INCORRECT CERTIFICATE FROM MAC

If you select the wrong certificate in Safari, you must remove it from the Centrify Express for Smartcard keychain to be prompted to select a certificate again.

1. If the certificate did not show **Purpose #2 Smartcard Logon**, you have selected the wrong certificate.
6. Open **Launchpad** and open **Smart Card Assistant**.
3. Select **Diagnostics**, then press the **Open Keychain** button.
4. On the left, select login under **Keychains**, then select **All Items** under **Category**.
5. On the right, select the identity preference entry and select **Delete**.
Go back to section 6, *Access from a Home Personal Mac*. Go to step 6 to log on again. The system prompts you for the correct certificate.