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## Overview of Authentication on *GPO Access*

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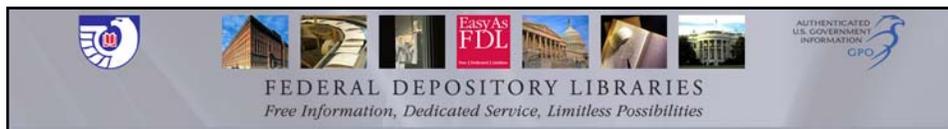


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## GPO's Authentication Initiative

- GPO is engaged in a major authentication initiative designed to assure users that the information made available by GPO is official and authentic and that trust relationships exist between all participants in electronic transactions.
- This initiative, which employs Public Key Infrastructure (PKI) technology, will allow users to determine that the files are unchanged since GPO authenticated them.

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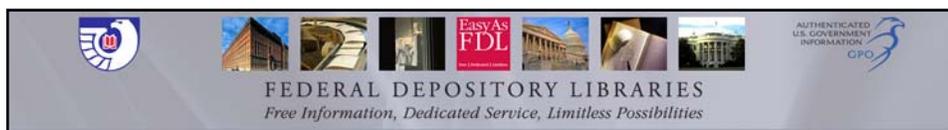
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AUTHENTICATED  
U.S. GOVERNMENT  
INFORMATION



GPO

The Seal of Authenticity enables the viewer to verify the authentic nature of a particular document, ensuring that the content has remained unchanged since GPO first authenticated it.



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## How It Works

- GPO uses a digital certificate to apply digital signatures to PDF documents.
- The digital certificate is issued by a Certificate Authority (CA) upon receiving proof of identity.
- A certification path between the certificate and the CA must be established to validate the signature.





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## Validating a Certification Path

### Driver's license certification path

- State of Iowa
  - Iowa Department of Transportation
    - John Doe

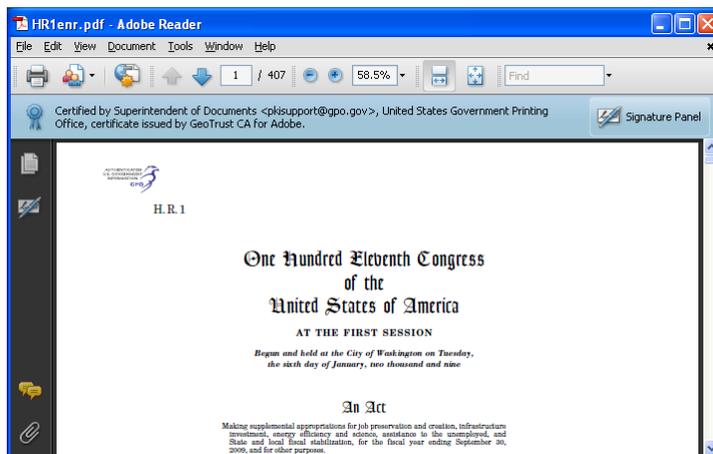
### Digital certificate certification path

- Adobe Root CA
  - GeoTrust CA
    - Superintendent of Documents

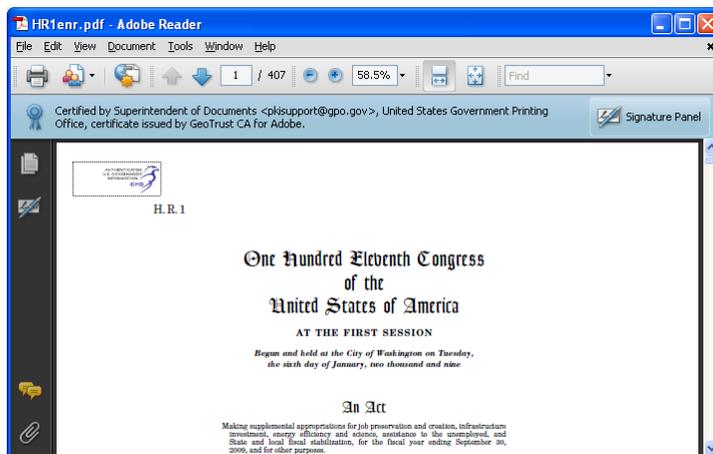


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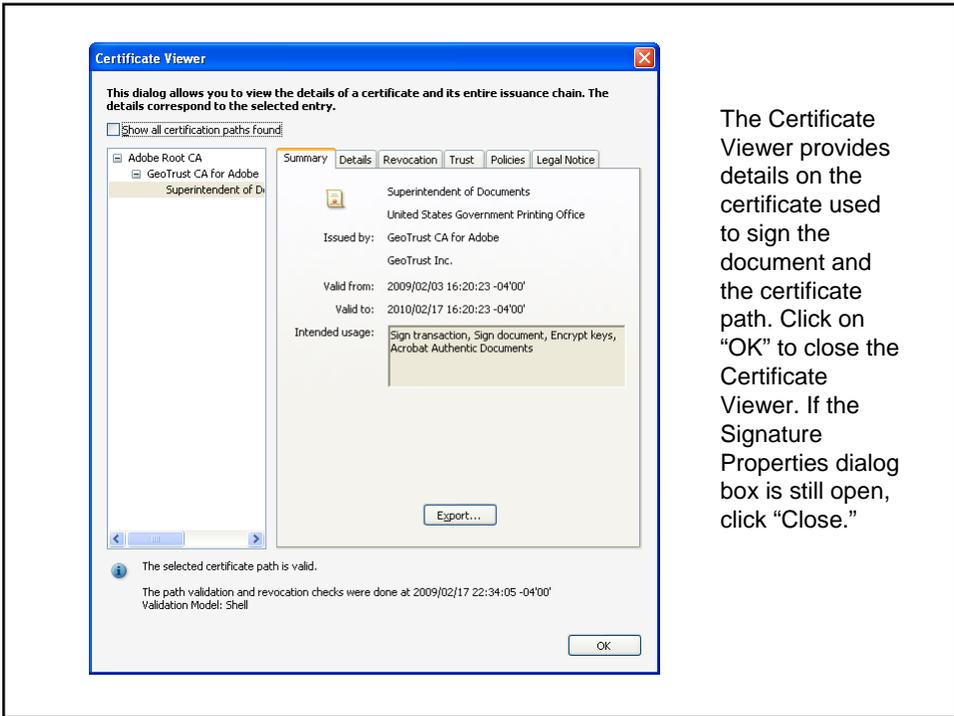
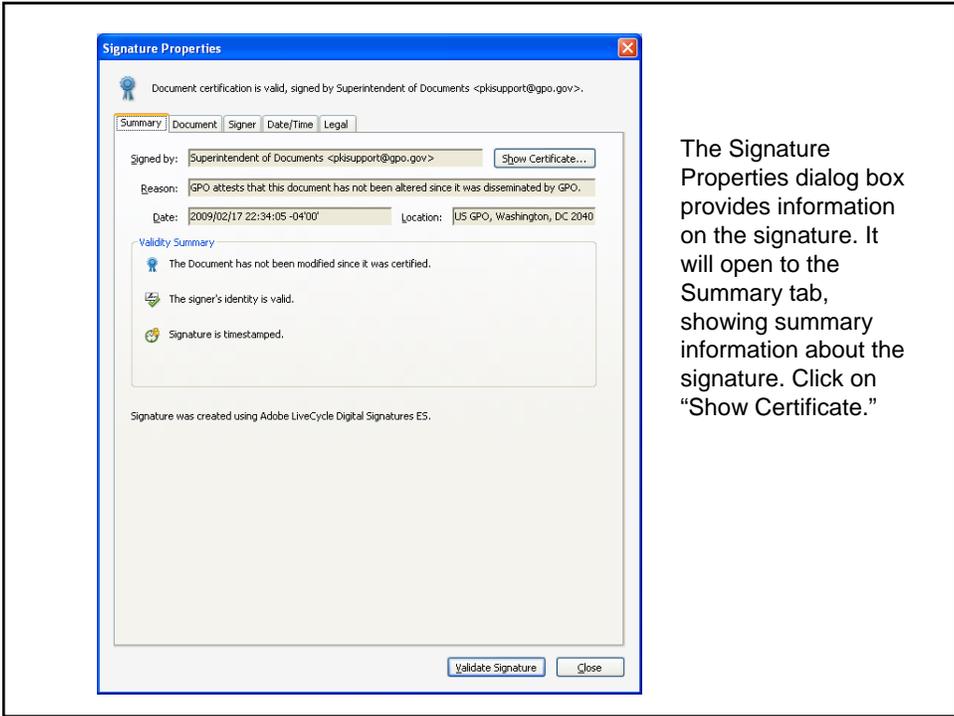
## Adobe Acrobat or Reader 9.0 Validation Process

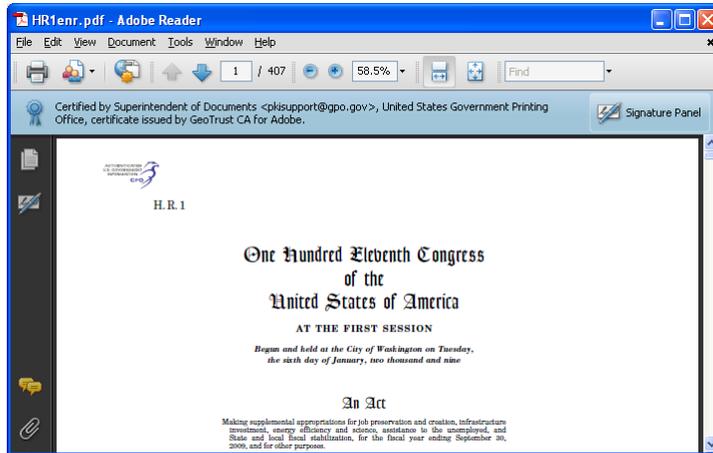


When you open a digitally signed file in Adobe Acrobat or Reader 9.0, you will see a light blue bar along the top of the page. The blue ribbon icon lets you know that the digital signature is valid and that the document has not been modified since GPO signed and certified it.

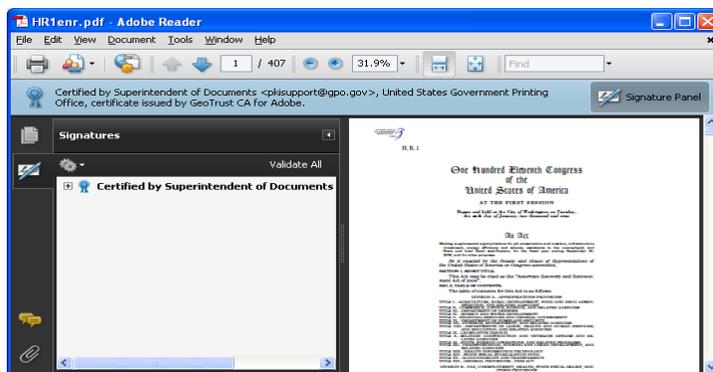


Right-click on the GPO Seal of Authenticity and select “Show Signature Properties...” from the menu that appears.

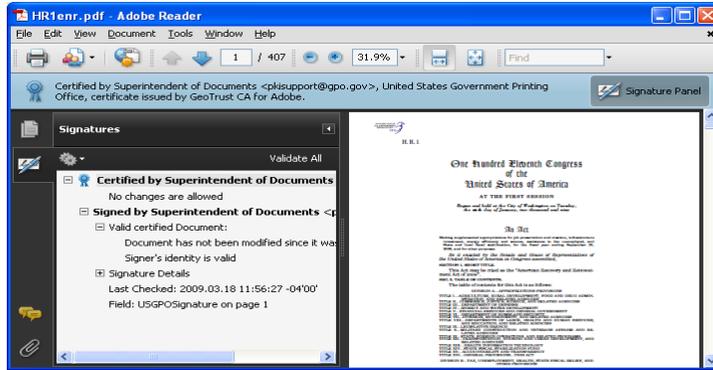




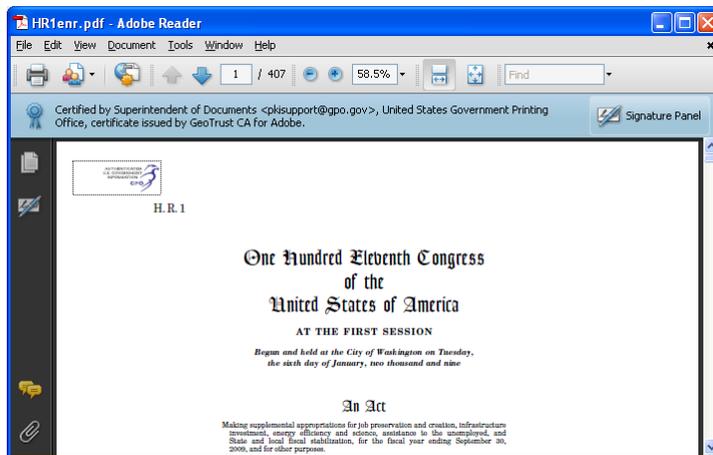
You can also view Signature information by clicking “Signature Panel.”



The Signature Panel will appear in a frame to the left of the document. You can click the plus sign to the left of the blue ribbon to see more information about the signature.



Click the arrow in the black Signatures bar at the top of the Signature Panel to close the Signature panel.



In Adobe Acrobat or Reader 9.0, signatures are validated when the file is opened. If you would like to check the validity, click the GPO Seal of Authenticity.



Adobe will run a validation check, and you should get this Signature Validation Status dialog box.

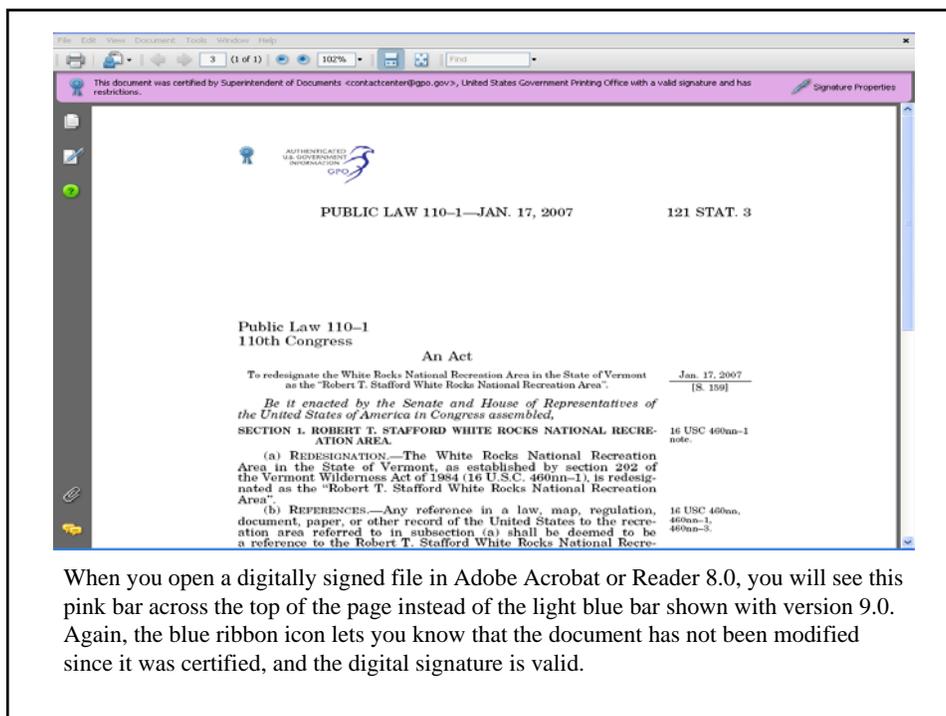
An alternate way to do this check is to right-click on the GPO Seal of Authenticity shown in the previous slide and select "Validate Signature" from the menu that appears. Adobe will run the validation check, and you should get the box shown above.



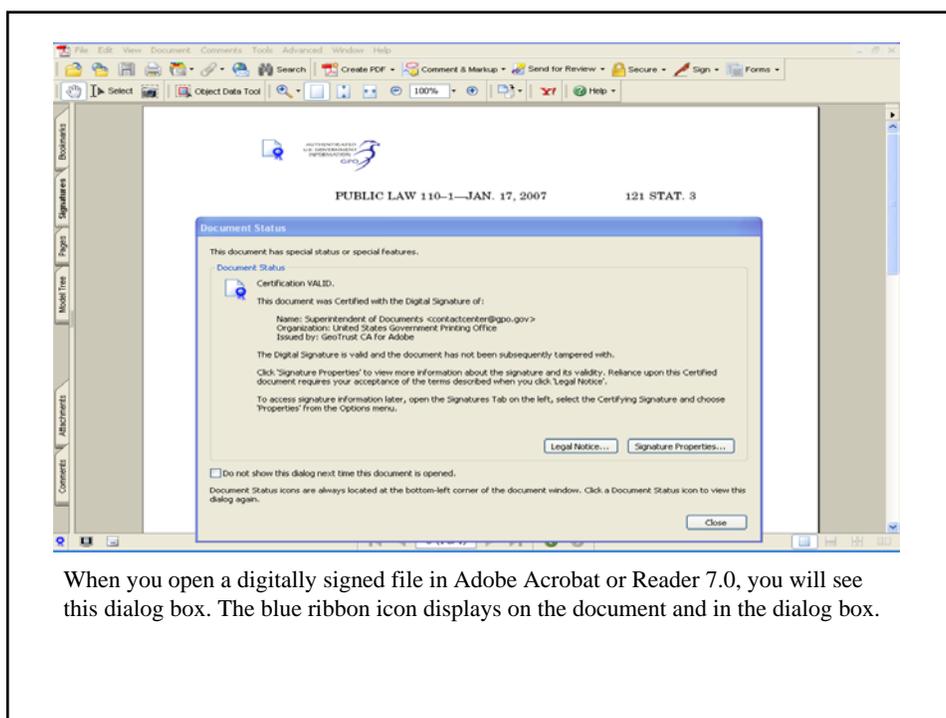
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## Earlier Versions of Adobe Acrobat or Reader

- We recommend viewing the signed files on *GPO Access* in version 7.0 or higher.
- There are presentations showing the validation process in versions 8.0 and 7.0 on our Authentication Web page on *GPO Access*.
- The next slides show what a signed document looks like when opened in versions 8.0 and 7.0.



When you open a digitally signed file in Adobe Acrobat or Reader 8.0, you will see this pink bar across the top of the page instead of the light pink bar shown with version 9.0. Again, the blue ribbon icon lets you know that the document has not been modified since it was certified, and the digital signature is valid.



When you open a digitally signed file in Adobe Acrobat or Reader 7.0, you will see this dialog box. The blue ribbon icon displays on the document and in the dialog box.






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## Adobe Validation Icons

<p> The Blue Ribbon icon indicates that the certification is valid.</p>	<p> The Question Mark icon indicates that the signature could not be verified.</p>
<p> The Certification Question Mark icon means that the document was certified, but the validity is unknown.</p>	<p> The Warning Sign icon indicates that the document was modified after the signature was added.</p>
<p> The Check Mark icon indicates that the signature is valid.</p>	<p> The Red "X" icon indicates that the certification is not valid.</p>








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## Authenticated Content on *GPO Access*/FDsys

- There are currently three authenticated applications on *GPO Access*:
  - The Budget of the United States Government
  - Public and Private Laws
  - Congressional Bills
- Public and Private Laws and Congressional Bills are authenticated on FDsys.
- The Budget is under development on FDsys and will be authenticated when released.





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## Authentication of the E-Budget



The U.S. Government Printing Office (GPO) made history in the distribution of the Budget of the U.S. Government on February 4th, 2008. President George W. Bush released the first ever Electronic Budget (E-Budget) and GPO authenticated the E-Budget by digital signature on *GPO Access*.

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## Budget Web Page on GPO Access



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### Public and Private Laws Web Page on GPO Access



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### Congressional Bills Web Page on GPO Access





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## Path Forward

- Authenticate additional applications in coordination with publishing agencies with FDsys.
- Expand digital signature capabilities for various file formats and levels of granularity over time.



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## Partnerships with the FDLP Community

- GPO wants to provide additional value through authentication services to Federal depository libraries.
- GPO will work with libraries in partnership with GPO to authenticate their Federal content.



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## Authentication Web Page on *GPO Access*

- <http://www.gpoaccess.gov/authentication/>
- Links to Budget, Public and Private Laws, and Congressional Bills
- Slide presentations describing validation process in Adobe Acrobat and Reader versions 9.0, 8.0, & 7.0
- General information on authentication, including definitions of many terms



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## Comments or Questions?

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