

Mobile Digital Signature (MDS) Application

Version 4.0.1



Removing Unsigned Custom Signatures Fields Continue Signing Signature Verification Invalid Signatures **Removing Signatures** Viewing Digital Certificate Properties



About

Digital signatures can be used for many types of documents where traditional hand-written signatures have been used in the past. The sole existence of a digital signature is not enough assurance that a document is what it appears to be. For a recipient to fully trust an electronic document, they must be able to verify that:

- The document has not been altered
- The document came from someone they trust

Electronic Signatures are the equivalent of a hand-written signature that has been digitized. Electronic signatures are popular because they are easy to use (ex. created using a finger or mouse) however they are not equivalent to digital signatures.

Digital Signatures are quite different from Electronic signatures as they are more trustworthy because they verify the identity of the person who signed and that the signature is valid. In contrast to paper-based (hand-written) signatures, digital signatures offer higher levels of fidelity and integrity. Digital signatures verify and assure the following:

- The document is authentic and comes from a verified source
- The document has not been tampered with since being digitally signed as the signature would be displayed as invalid if changes were made
- The identity of the signer has been verified by a trusted entity or organization (by a trusted Certificate Authority (CA))

Digital signatures in Portable Document Format (PDF) documents address these needs by providing a way to authenticate digital data based on public key cryptography. This document describes how digital signatures can be placed on or validated within a PDF document by using the Mobile Digital Signature (MDS) application.

The Mobile Digital Signature (MDS) application allows users to apply digital signatures to PDFs from mobile devices on both the Apple iOS and Android platforms using the Purebred derived DoD issued digital certificate on the DoD Mobility Unclassified Capability (DMUC) device.

The following limitations should be noted as you utilize the MDS Application:

- The MDS Application will only support PDF documents that are fillable, containing predefined digital signature blocks, using X.509 based digital signing certificates, and will interact with PDF documents whose document security permission settings authorize it.
- · The MDS Application will not create PDF documents.
- The MDS application will not identify or validate hand-written or electronic signatures.
- The MDS Application will only utilize X.509 based digital signing certificates that are accessible from within the mobile device upon which it is installed.
- The MDS Application will rely on external Certificate Authorities to provide a revocation status for an issued certificate.
- The MDS Application will rely on an Internet connection to perform a CRL check.
- The MDS Application cannot store the information related to any PDF documents and as such you must rely on external applications or storage.

Getting Started

This section explains how to launch the MDS Application from an Android device.

LAUNCHING THE MDS APPLICATION

Users launch the MDS Application via two methods:



- 1) Select the MDS icon **an Android device**. This will bring you to the MDS Application's welcome screen.
 - a. At the MDS Application's welcome screen, users select **OPEN PDF** to open files stored locally on the device or in cloud storage (i.e. Google Drive, OneDrive, Dropbox, etc.).
 - i. Once a PDF file has been selected, the file will be opened to the MDS Application's main screen to allow the user to use all the features of the MDS Application.
 - b. Select the Exit (Exit) icon
 - i. Selecting this icon will close the MDS Application
 - c. Select the (Help Guide) icon
 - i. Selecting this icon will open the help guide
- 2) Open a PDF through a PDF viewing application (if installed) and share
 - (export) the PDF with the MDS Application. This will open the MDS Application and the PDF that was shared. a. Alternatively, save a PDF received from an email to either the internal storage on the device or a cloud
 - storage service. Then follow method #1 (above) to open the PDF.

OPENING A PDF WITH THE MDS ICON

Once the MDS Application opens to the welcome screen, users can access PDFs that are stored locally on the device or in

cloud storage (i.e. Google Drive, OneDrive, Dropbox, etc.) by selecting the contract icon.



YourApp Version 1.0.0 (r0)

Click here to see this page in full context

- Digitally sign the PDF in predefined signature blocks
- · Determine the validity of existing digital signatures on the PDF
- Edit the fields in fillable PDF
- Save PDF locally on the mobile device or on a cloud storage media
- Share and export the PDF using multiple applications that are enabled on the device such as email, cloud storage applications or text messaging
- · Open new PDF documents
- · View the MDS help guide
- · Close the MDS Application

OPENING PDFS THROUGH AN EMAIL APPLICATION OR WEB BROWSER

PDF attachments will either have to be saved to the local device or a cloud storage application; from which the MDS Application is able to open. Alternatively, a 3rd party PDF viewer application with the ability to share to other applications will be able to export a PDF into the MDS Application. The MDS Application will allow users to perform the following:

- · Digitally sign the PDF in predefined signature blocks
- · Determine the validity of existing digital signatures on the PDF
- · Edit the fields in fillable PDF
- · Save PDF locally on the mobile device or on a cloud storage media
- Share and export the PDF using multiple applications that are enabled on the device such as email, cloud storage applications or text messaging
- · Open new PDF documents
- View the MDS help guide
- · Close the MDS Application

Using the Application

This section explains the navigation ribbon icons of the MDS Application.



The MDS Application identifies all areas of the PDF that have predefined

digital signature blocks that will accept a digital signature. Selecting the icon brings a right-side menu that lists all signature block areas of the PDF that can accept a digital signature.

Signing

After selecting the *icon* on the navigation ribbon, the list of digital signature block areas of the PDF that can be signed will appear on a right-side menu. Follow the steps below (1-2) to successfully sign a PDF.

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- Select the corresponding Sicon of the part of the PDF to be digitally signed.
 Select 'Purebred Digital Signature Certificate' from the list of certificates and then select 'ALLOW' (located at the bottom right of the screen) to complete the signing of the PDF.

Select certificate
pdfsigningapp.Android has requested a certificate. Agreeing to this request will allow the application to use this certificate with servers from now on.
Purebred Digital Signature Certifi
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You can install certificates from a PKCS#12 file with a .pfx or .p12 file extension.
INSTALL
DENY ALLOW

Once the PDF has been successfully signed, the message 'All digital signatures are valid' will appear below the navigation ribbon.



Adding Custom Signature Fields

>		/	Digital Signatur	CREATE SIGNATURE	
Digital Signature Fu	UNCTIONS				
Signature Size					

PLACE SIGNATURE

- 1. Enter the name of the new custom signature field under 'Signature Title'.
 - a. Note: A unique name must be used for each new custom signature field. Entering a duplicate name will replace the pre-existing custom signature field.
- 2. Select a size of the new custom signature field based on the user's desired preference. The sizes range from the following:
 - a. Small
 - b. Medium
 - c. Large
- 3. Select 'Place Signature' once the size of the new custom signature field has been selected, the user will be taken back to the PDF to place the location of the signature.
- 4. Tap the area of the PDF that the new custom signature will be placed.
 - a. Note: the user can use his/her finger to scroll up/down the PDF and to find the location to place the signature.
- 5. Select the CHECK MARK as shown below in the navigation ribbon to confirm the placement of the new custom signature. Select X to cancel this function.



Upon completion, a gray box with the text 'SIGN HERE' will appear in the selected location.

SIGN HERE

Once the new custom signature field has be added, the user may sign it using the steps in the 'Signing' section of this help guide. Alternatively, the user may send the unsigned document with the new custom signature field to another user to sign.

Removing Unsigned Custom Signatures Fields

After selecting the icon on the navigation ribbon, select 'REMOVE FIELD' on a right-side menu for the appropriate custom signature field. This will remove the custom signature field from the PDF.

Click here to see this page in full context



Continue Signing

	\$ 12:42
	Signature Verification
	CLOSE
ignature are Valid	
	Field Name: usersign - Signature Valid,
SYSTEM AUTHORIZATION	Signed By: rob3. Signed On Sunday, July
AUTHORITY: Executive Order 10450, 9397, and Public Law 9 PRINCIPAL PURPOSE: To record names, signatures, and ther identific access to Department of Defense (DoD) system and/in page from	2018 at 12:41 PM
ROUTINE USES: None. DISCLOSURE: Disclosure of this information is voluntary; howe prevent further processing of this request.	
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7. OFFICIAL MAILING ADDRESS 8.	
10. IA TRAINING AND AWARENESS CERTIFICATION REQUIREMENTS	
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To continue signing other areas of the PDF, select the icon and complete steps 1-2 from the previous section for each additional digital signature.

Once a signature field has been signed, it will appear with 🛷 and the metadata of the digital signature (see image to the right). In addition, it will provide the user the option to conduct a Certificate Revocation List (CRL) check on the digital signature.

Signature Verification



To perform a Certificate Revocation List (CRL) check on a signature, select the

icon from the navigation ribbon to bring up the right-side menu that lists all areas of the PDF that can accept a digital signature.

Next, select 'Check CRL' to validate a signature. If a signature is valid, 'CRL Check: SUCCESS' will appear below the navigation ribbon.

Note:



display the message 'No Signatures available in this document'.

3. CRL checks fail on self-signed certificates as they are inherently considered untrustworthy as they are directly trusted as a trust anchor.

Invalid Signatures

If the MDS Application detects an invalid signature on the PDF due to an expired or revoked certificate, the message 'Signature problems exist' will be displayed on the navigation ribbon. If the user selects the 'sign' icon, the right-side menu

will appear, and the invalid signature will not have *m* nor will the user be able to conduct a CRL check on the signature.



Removing Signatures

After selecting the icon on the navigation ribbon, select 'REMOVE SIGNATURE' on a right-side menu for the appropriate signature field. This will remove the signature and reset the signature field.

Digital Signature	Functions		
CLOSE	CREATE	SIGNATURE	
# 💦	CHECK CRL	x	REMOVE SIGNATURE

Note: This feature will only work on signatures applied during the current session. Any PDFs signed in a prior session or by another user cannot be removed.

Viewing Digital Certificate Properties

MDS allows users to view the X.509 digital certificate properties for all digital signatures that are placed on a document being viewed. To use this function, open the Digital Signature Function menu and select 'More Details' for the corresponding digital signature.



Selecting 'More Details' will provide the properties for the digital certificate that was used to make the digital signature that is represented on the document. The following scrollable screen is displayed when 'More Details' is selected and provides various details for the digital certificate used to make the digital signature.



Select 'Close' to return to the previous screen.

Open folder

Selecting the **D** icon allows users to access PDFs stored locally on the device or in cloud storage (i.e. Google Drive, OneDrive, Dropbox, etc.).



Note that MDS will prompt you to SHARE the document that is currently opened within the application if you select the OPEN function, this is to prevent loss of any modifications that have been made to the current document as the application does not save documents.

Closing		
WARNING: You are about to lose your changes. Do the document first?	you want to	share
	NO	YES

Selecting 'Yes' when prompted will provide the option to SHARE the document. Selecting 'No' will proceed with the OPEN function, thus removing the current document from the application, when another document is selected.

EDIT 🖍

Selecting the icon allows the user to add text to editable field of the document. Once the user selects the icon, a right-side menu will appear displaying all editable areas of the PDF. The user can add text to the editable area by selecting the corresponding field on the right-side menu (note: the area being edited will be shaded in grey). Once complete, the user selects 'SAVE' to capture the changes made to the PDF. Note that selecting 'DONE' on the keyboard will also save the changes made; after which you can select 'CLOSE' to return to the unobstructed view of the document.

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After selecting the *icon*, the user will be prompted with the option to change the name of the PDF file before exporting it. Once the user enters the desired name, then selecting 'Share' will bring up the menu of share options.

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AUTHORITY: Executive Order 10450, 8087, and	Public Law 99-876, the Computer Fraul a	nd Abuse Incl.	Defense Civilian Personnel D	tata System (DCPDS)		NGB-San Antonio, TX
PRINCIPAL PURPOSE: To record names, signatures, and access to Department of Defense:	other identifiers for the purpose of validation (DoD) systems and information. NOTE: N	the husboothiness of individuals requesting scores may be maintained in both electronic	1. NAME (Last, First, Middlo Indi	al)	2. ORGANIZATION	
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Selecting this icon will open the help guide.



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Selecting 'Yes' when prompted will provide the option to SHARE the document. Selecting 'No' will proceed with the CLOSE function, thus removing the current document from the application, when another document is selected.

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