

CORENET X

User Guide for Checksum Validation of Approved Plans using NDS

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1. Purpose of Document

The purpose of this document is to provide instructions and steps to perform validation of approved files with an approval PDF letter (List of Approved Plans) from CORENET X.

2. Prerequisites

This feature is only available on Netrust Digital Signer (NDS) version 4.1.4 and above.

In order to use these features, NDS requires the installation of Java 8 and above.

3. Steps to perform validation



3.1. Run the Netrust Digital Signer application

3.2. Navigate to the folder containing the files to be validated

Using the Folders and Files selection, navigate to the folder containing the files on the left side of the user interface.



Click on the desired folder and the files in the folder will appear under the files selection area.

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<u>Files</u>			
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B1_ST.pdf 44 KB Adobe Acrobat	. 4/4.	4. Signer(s) Information / Plans Validation Result(s)	
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3.3. Adding the files to Work Area

Double click on the desired files in the files selection area to add them into the Work Area

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3.4. Selecting the file(s) to be validated

Click on the desired file in the Work Area to perform validation on. You may validate up to 10 files at once. In order to validate multiple files, hold on to the CTRL button and click on the file in the work area to select multiple files.

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Name Size Type 208 KB Adobe Acrobat Plans (AR)/ifc 13,689 KB IFC File Plans (AR)/ifc 13,689 KB IFC File Plans (KB)/ifc 13,689 KB IFC File Plans (ST)/ifc 13,689 KB IFC File tester log 56 KB Text Document	Signer(s) Information / Plans Validation Result(s)
	User Information Log Inf Token Info : No Token Detected. Logged In User : NA Centricate Expiry : NA

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3.5. File(s) validation

After selecting the desired files to be validated, click on the "Check Plans" button.

 Netrust Digital Signer ver 4.1.6 		- 0 X
<u>Folders</u> Dem	o. NDS. Annex. Verification	Image: Sign Image: Sign
Files Name B B1_ST.pdf A List of Approved Plans.pdf Plans. (AR).ifc	Size Type 208 KB Adobe Acrobat 284 KB Adobe Acrobat 13,589 KB IFC File	
Plans (ST), Jác tester Jog	13,669 KB Text Document	Signer(s) Information / Plans Validation Result(s)
		Ver Infomation User Infomation Logg Inf/Token Info : No Token Detected. Logged In User : NA Cetificate Expiry : NA

Click on the OK button when prompted

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Thereafter, navigate to the folder containing the approval PDF letter (List of Approved Plans) from CORENET X and select the file.

Select Approval Letter									
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Desktop	List of Approved Plans.pdf	3/27/2024 3:04 PM	Adobe Acrobat D 1						
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	Open Cancel								

After selecting the file, click on Open

Select Approval Letter			×
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^	Name	Date modified	Type Size
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~	<		>
File	(*.pdf) V Open Cancel		

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Validation will be carried out and the status will be shown in the "Signer(s) Information / Plans Validation Result(s)" tab.



Once all the files are processed, the results will be shown in the same tab.

Upon successful validation with a signed file, the following message will be shown:

<Filename of file to be validated> is approved in selected <filename of List of Approved Plans>

Signing Certificate of <filename of List of Approved Plans> CN = <Signer details>

For example, if the file *Plans (AR).ifc* is selected to be validated with the approval letter *List of Approved Plans.pdf*, the following message will be shown.

Plans (AR).ifc is approved in selected List of Approved Plans.pdf

Signing Certificate of List of Approved Plans.pdf: CN=Corenet X UAT, OU=nSignCore UAT, O=Corenet X, C=SG

Netrust Digital Signer ver 4.1.6 Folders	5		- 0 X
Folders Dense_MD5_Annex_Verification			Open Support Open Support<
Files Name	Size Twoe	Date Modified	
Plans (ST).#c	Stell Type 208 KB Adobe Acrobat 284 KB Adobe Acrobat 13,689 KB IFC File 13,689 KB IFC File 13,689 KB IFC File	19/2/2025 12.2 19/2/2025 12.2 19/2/2025 12.2 19/2/2025 12.2 19/2/2025 12.2 19/2/2025 12.2	Sgrwei() Hfomation / Reva Validation Revalls) Warrang The selected Arrow, (Mirkulated 3, unspreciptif date not conten a valid digital signature. You may with its content CORENET Xhelpdark to verify the authenticity of the file.
			[Fet] End (CodeLan of 1). J To does of and by values in selected free. J Sets isset. J, respected of the set of the set of the selected free. J Sets isset. J, respected of the set of the s
			Log Token Ho :: Token persent Joged In User : NA Details Centrate Epily : NA

When performing validation with an unsigned approval letter:

To warn users when selecting a **unsigned** approval letter, upon successful validation with a <u>unsigned file</u>, the following warning message will be shown:

Warning: The selected <filename of List of Approved Plans> does not contain a valid digital signature. You may wish to contact CORENET X helpdesk to verify the authenticity of the file. <Filename of file to be validated> is approved in selected <filename of List of Approved Plans>

For example, if the file *Plans (AR).ifc* is selected to be validated with the approval letter *List of Approved Plans.pdf*, the following message will be shown.

Warning: The selected Annex_NParks latest_3_unsigned.pdf does not contain a valid digital signature. You may wish to contact CORENET X helpdesk to verify the authenticity of the file.

Plans (AR).ifc is approved in selected Annex_NParks latest_3_unsigned.pdf

4. File Checksum generation

4.1. Navigate to the folder containing the desired files

Using the Folders and Files selection, navigate to the folder containing the files on the left side of the user interface.

 Netrust Digital Signer ver 4.1.4 	-	o ×
Folders	Image: Constraint of the path Image: Constraint of the path	
Files Size Type Data B I_ST.pdi 208 KB Adobe Acrobat 1/4 B II is of Approved Plans.pdf 284 KB Adobe Acrobat 4/2 Plans.(ME).ifc 13,689 KB IFC File 4/2 Plans.(ST).ifc 13,689 KB IFC File 4/2	Sopre Formation 7 Pans Validation Result(s)	
<>	User Information Log In/Token Token Info : No Token Detected. Logged In Uber : NA Cettificate Epity: NA	×

Click on the desired folder and the files in the folder will appear under the files selection area.

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<u>Folders</u>	9 .NDS_Avnex_Verific	ation	A Refres Work A File Nar	sign Extrac File Path	t Verify	Check Plans Checksur Rie Size	view	Remove Signed/Estrac File Name	Clear Al Preferei ted Fle Details Area Fle Path	nces Relp	About Ext			
Files Name B1_ST.pdf Plans (AR).ifc Plans (MR).ifc	Size Type 208 KB Adot 284 KB Adot 13,689 KB IFC 1 13,689 KB IFC 1	e be Acrobat be Acrobat File File	✓ Date 1/4, 4/2: 4/2: 4/2:											
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4.2. Adding the files to Work Area

Double click on the desired files in the files selection area to add them into the Work Area.

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Folders		
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Files		
Name Size Type Data B1_ST.pdf 208 KB Addeb Acrobat 1/4 Plans (AF).fr 284 KB Addeb Acrobat 4/7 Plans (AF).fr 13,689 KB IFC File 4/7 Plans (AF).ifc 13,689 KB IFC File 4/7 Plans (ST).ifc 13,689 KB IFC File 4/7	Sgner(s) Homation / Plans Validation Result(s)	< >
	User Information Log In/Tocken Details Certificate Epity: NA	

4.3. Selecting the file(s) to generate their checksum

Click on the desired file in the Work Area to generate their checksum. You may select up to 10 files at once. In order to select multiple files, hold on to the CTRL button and click on the file in the work area to select multiple files.

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Folders																		
A			Refresh	Sign Extract	Verify	Check Plans	# Checksum	View	Remove	Clear All P	* Preferences	? Help	About					
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Name	Size	Туре	Date															
B1_ST.pdf	208 KB	Adobe Acrobat	1/4.															
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4.4. Checksum generation

After selecting the desired files to be validated, click on the "Checksum" button.

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Files		
Name Size Type Date B 15: Totil 208 KB Adobe Acrobat 1/4 Planes (AR3)/lc 13,689 KB IFC File 4/2 Planes (KF1)/lc 13,689 KB IFC File 4/2 Planes (ST)/lc 13,689 KB IFC File 4/2	Signer(s) Information / Plans Validation Result(s)	^
	User information	v
<	Log In/Token Details Cetficate Epity: NA	

Once the process is completed, results will be shown in the "Signer(s) Information / Plans Validation Result(s)" tab.

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<		>	Details Cetficite Epry : NA			

Upon successful checksum generation, the following message will be shown:

Checksum of <File Path> is: <Checksum>

For example, if the file sample.txt on C drive and the checksum of the file is *688213asklddsfnm3241hb2j3*, the following message will be shown.

Checksum of C:\sample.txt is: 688213asklddsfnm3241hb2j3

5. Checksum QR generation

5.1. Enable the feature

Click on the "Preference" button

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Folders	
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	Bgweis) Homaton / Para Valdaton Readts) User Homation User Homation Taken Ho Ito Taken Detected. Conficute Epoy: It Al. Cenficute Epoy: It Al.

Select Enable in the "Enable QR Generation" section and click on OK.

Digital Signer Preferences	
Login Preferences	
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(You will have to re-enter your original password.)	
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Signed/Extracted Files Location	
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In an "ent/_ent" folder at the same location as the original file	
O Put the Signed/Extracted Files in the following folder.	
	_
nable QR generation	
N V	

Once completed, a new "Generate QR" button will appear.



5.2. Navigate to the folder containing the desired files

Using the Folders and Files selection, navigate to the folder containing the files on the left side of the user interface.



Click on the desired folder and the files in the folder will appear under the files selection area.

 Netrust Digital Signer ver 4.1.4 	- • ×
Folders	Image: Sign Barbard Signed/Estraded File Details Area Work Area
Demo_NDS_Annex_Verification Files Name Size P[81_ST.pdf] 200 KB Adobe Acrobat 244 KB Plans (AF)Jcc 13.689 KB	File Name File Path Signing Time Size v Image: Size File Name File Path Signing Time Size atriangle Image: Size Image: Size Image: Size Image: Size Image: Size atriangle Image: Size Image: Size Image: Size Image: Size Image: Size atriangle Image: Size Image: Size Image: Size Image: Size Image: Size atriangle Image: Size Image: Size Image: Size Image: Size Image: Size atriangle Image: Size Image: Size Image: Size Image: Size Image: Size atriangle Image: Size Image: Size Image: Size Image: Size Image: Size atriangle Image: Size Image: Size Image: Size Image: Size Image: Size atriangle Image: Size Image: Size Image: Size Image: Size Image: Size atriangle Image: Size Image: Size Image: Size Image: Size Image: Size atriangle Image: Size Image: Size Image: Size Image: Size Image: Size atriangle Image: Size Image: Size Image: Size Image: Size atriangle </td
☐ Plans (ME)./c 13.689 KB IFC File Plans (ST)./c 13.689 KB IFC File	Signer(s) Information / Plane Validation Result(s) User Information User

5.3. Adding the files to Work Area

Double click on the desired files in the files selection area to add them into the Work Area.

 Netrust Digital Signer ver 4.1.4 		- a ×
Eolders	Vertification	Image: Sign Particit Verify Image: Sign Particit Image: Sign P
Files		
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		Log In/Token ¹ No Token Detected. Logged in User : NA Details Cetficate Eppy : NA

5.4. Selecting the file(s) to generate the QR code

Click on the desired file in the Work Area to generate a QR code containing their checksum. You may select up to 10 files at once. In order to select multiple files, hold on to the CTRL button and click on the file in the work area to select multiple files.

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Folders					
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Files					
Name	Size	Туре	Date		
B1_ST.pdf B1_ST.pdf Bans (AR).dc Plans (AR).dc Plans (ME).fc Plans (ST).ifc	208 KB 284 KB 13,689 KB 13,639 KB 13,689 KB 13,689 KB	Adobe Acrobat Adobe Acrobat IFC File IFC File IFC File	1/4. 4/2 4/2 4/2	Signer(s) Information / Plans Validation Result(s)	×
¢			>	Uter Information Log Information Log Details Cetflicate Expiry: NA	

5.5. QR generation

After selecting the desired files to generate the QR code, click on the "Generate QR" button.

 Netrust Digital Signer ver 4.1.4 		- a ×
Folders Demo_NDS_Armer	x_Verification	Reference Sign Extract Verify Check Rams Checksum Checksum Checksum Check Rams Checksum Checksum Check Rams Checksum Checksum <td< th=""></td<>
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<		Loger Fromation Token Info : No Token Detected. Logged In User : NA Details Certificate Expity : NA

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Once the process is completed, results will be shown in the "Signer(s) Information / Plans Validation Result(s)" tab.

 Netrust Digital Signer ver 4.1.5 			-	σ×
Folders				
			Refresh Sign Extract Verify Deck Pairs Decksum Generate GR Verify Deck Pairs Decksum Extract Verify Deck Pairs Decksum Extract Deck Pairs Decksum Extract Deck Pairs Decksum Extract Decksum Decksu	
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Name B B1_ST.pdf B1_ST.pdf B1_ST.pdf.png List of Approved Plans.pdf Plans (AR).ifc Plans (AR).ifc Plans (ME).ifc	Size Type 208 KB Adobe Acrobat 1 KB PNG File 284 KB Adobe Acrobat 13,689 KB IFC File 1 KB PNG File 13,689 KB IFC File	Date Modified 27/11/2024 3:3 27/11/2024 3:3 27/11/2024 3:3 27/11/2024 3:3 27/11/2024 3:3 27/11/2024 3:3		
Plans (ST).ifc	13,689 KB IFC File	27/11/2024 3:3	Signer() intomicin / mains vacuum nexus(ii) [Fin1] Successfully generated (In code of Checksum to C'Uken'usemane'Dektop/Deno_NDS_Annex, Verification'81_STpdf png	
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			User information	
			Log Is/Token Details Centrate Epry: NA	

Upon successful generation of the QR code, the following message will be shown:

Successfully generated QR code of Checksum to <File Path of QR code generated>

Checksum of <FilePath of selected file> is: <Checksum of file>

For example, if the file sample.txt on C drive and the checksum of the file is *688213asklddsfnm3241hb2j3*, the following message will be shown.

Successfully generated QR code of Checksum to C:\sample.txt.png

Checksum of C:\sample.txt is: 688213asklddsfnm3241hb2j3

6. Common error

6.1. Checksum of file to be validated is not in the approval letter

Signer(s) Information / Plans Validation Result(s) -

[File 1] Error! Checksum of tester.log does not match any values in selected Annex_NParks latest_3.pdf Signing Certificate of Annex_NParks latest_3.pdf: CN=Corenet X UAT, OU=nSignCore UAT, O=Corenet X, C=SG

If the approval letter (List of Approved Plans) does not contain the checksum of the file to be validated, this error will be shown:

Error! Checksum of <Filename of file to be validated> does not match any values in selected <filename of List of Approved Plans>

For this error, please do ensure that the correct file is selected to be validated against the correct approval letter (List of Approved Plans).

6.2. Incorrect approval letter selected

Signer(s) Information / Plans Validation Result(s) Warning: The selected 20230612_1116_Transport.pdf does not contain a valid digital signature. You may wish to contact CORENET X helpdesk to verify the authenticity of the file. [File 1] Error! Checksum of Plans (AR).ifc does not match any values in selected 20230612_1116_Transport.pdf

If an incorrect approval letter is selected, for example a random PDF file that does not contain any checksum, the following error will be shown:

Error! Checksum of *<Filename of file to be validated>* does not match any values in *selected <filename of List of Approved Plans>*

6.3. Other errors

If you encounter any other unexpected errors, please do take note of the following:

- 1) Error faced and screenshot of the error
- 2) Date and Time when you have encountered the error
- 3) Navigate to C:\ProgramData\Netrust Digital Signer and zip up the entire folder*

You may send an email to <u>customersupport@netrust.net</u> with the information obtained above and attach the zipped file in the email for support.

* To see this folder, you may have to select the option in File Explorer to show hidden files