



CORENET X

User Guide for Checksum Validation of Approved Plans using NDS

Version 1.8

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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.

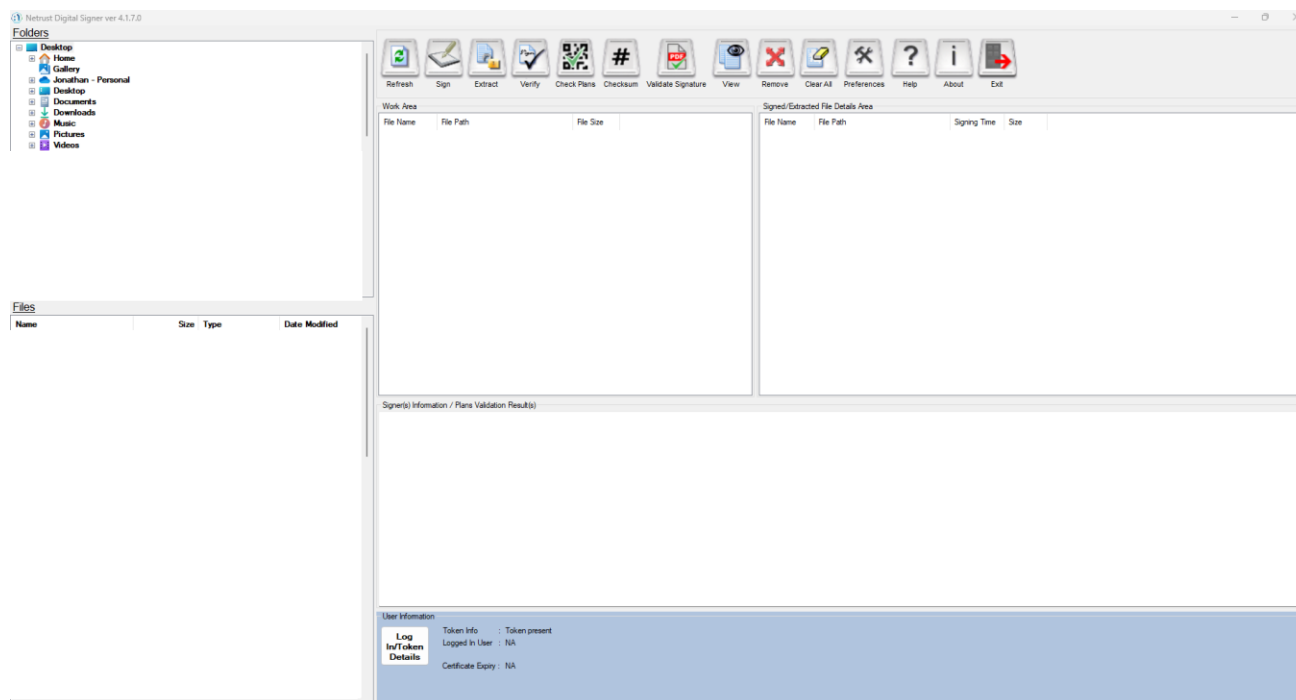
2. Prerequisites

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 21 and above, installer included in the installation package.

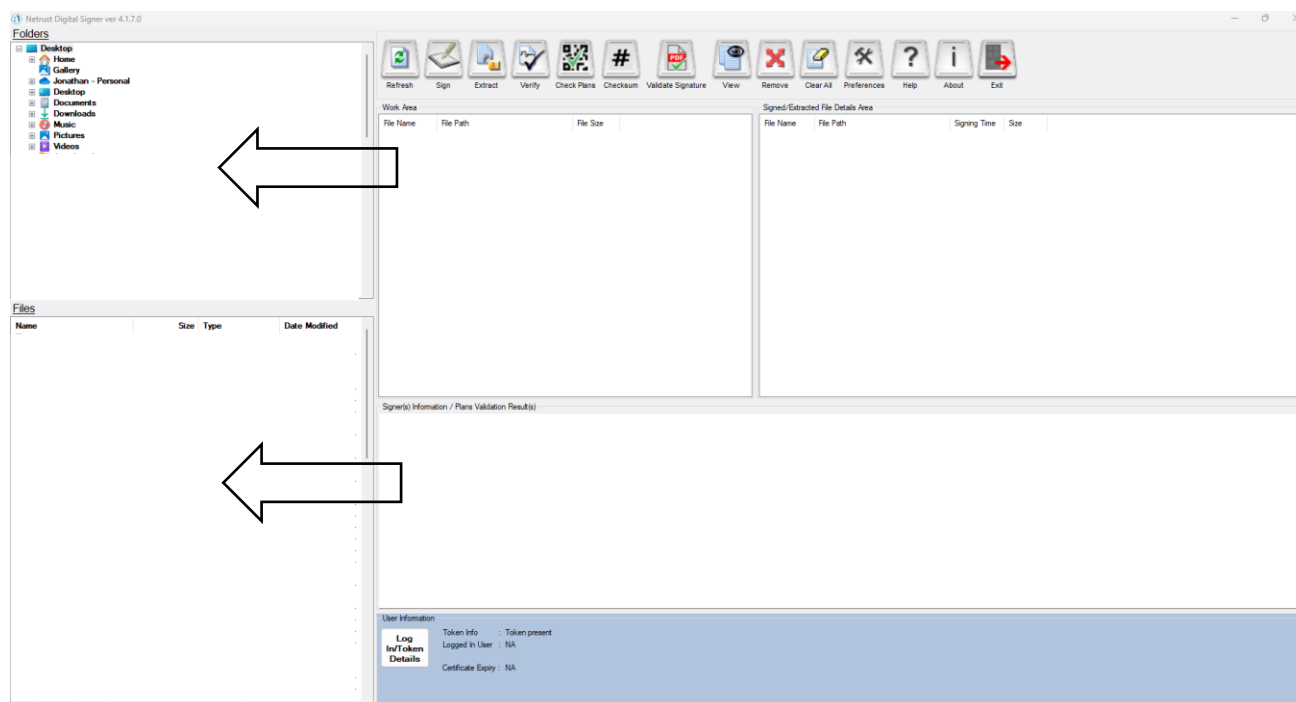
3. Steps to perform validation

3.1. Run the Netrust Digital Signer application

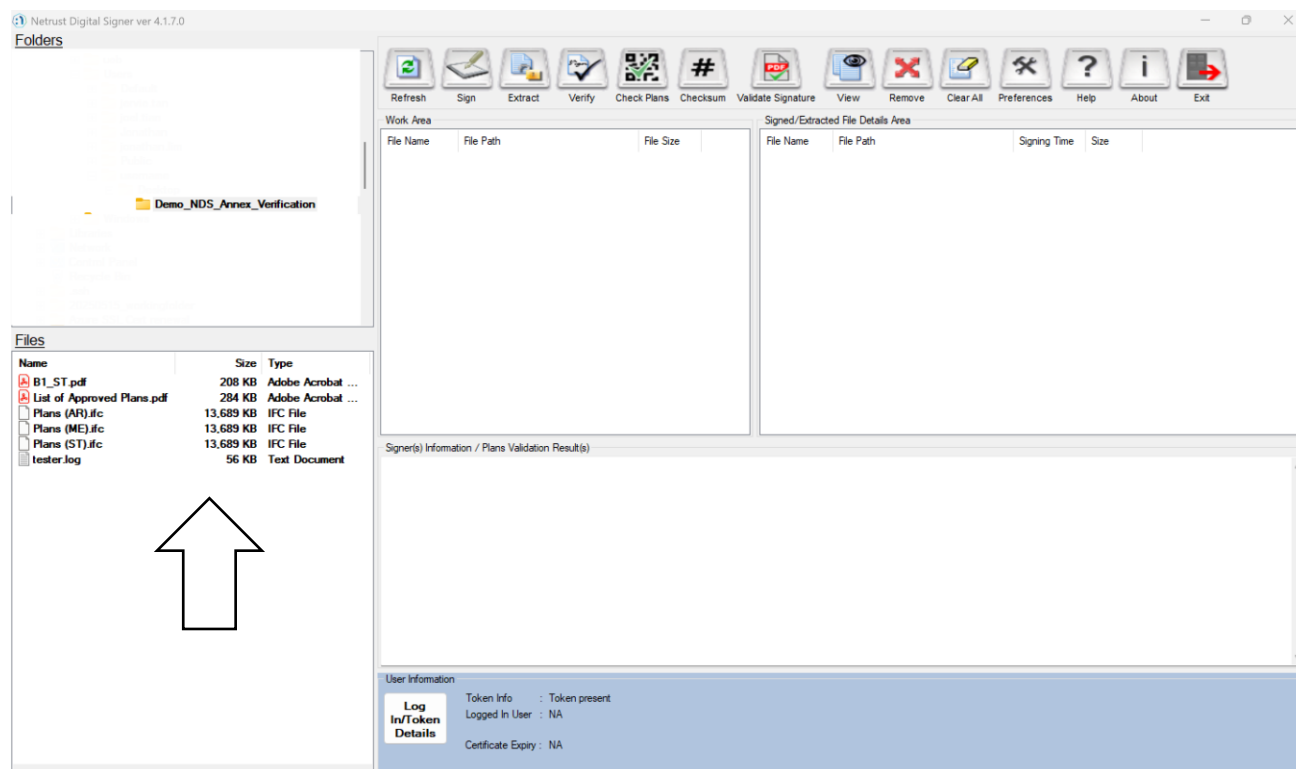


3.2. Navigate to the folder containing the files to be validated

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

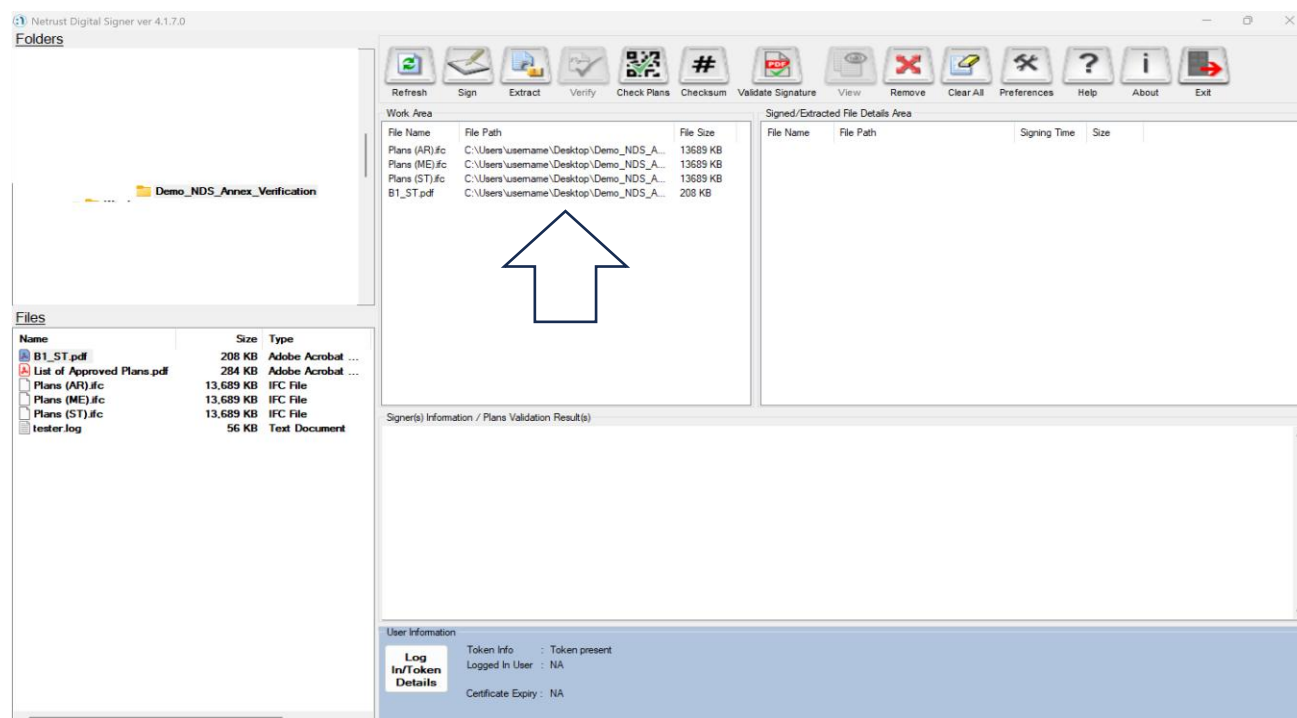


Click on the desired folder and the files in the folder will appear under the files selection area.



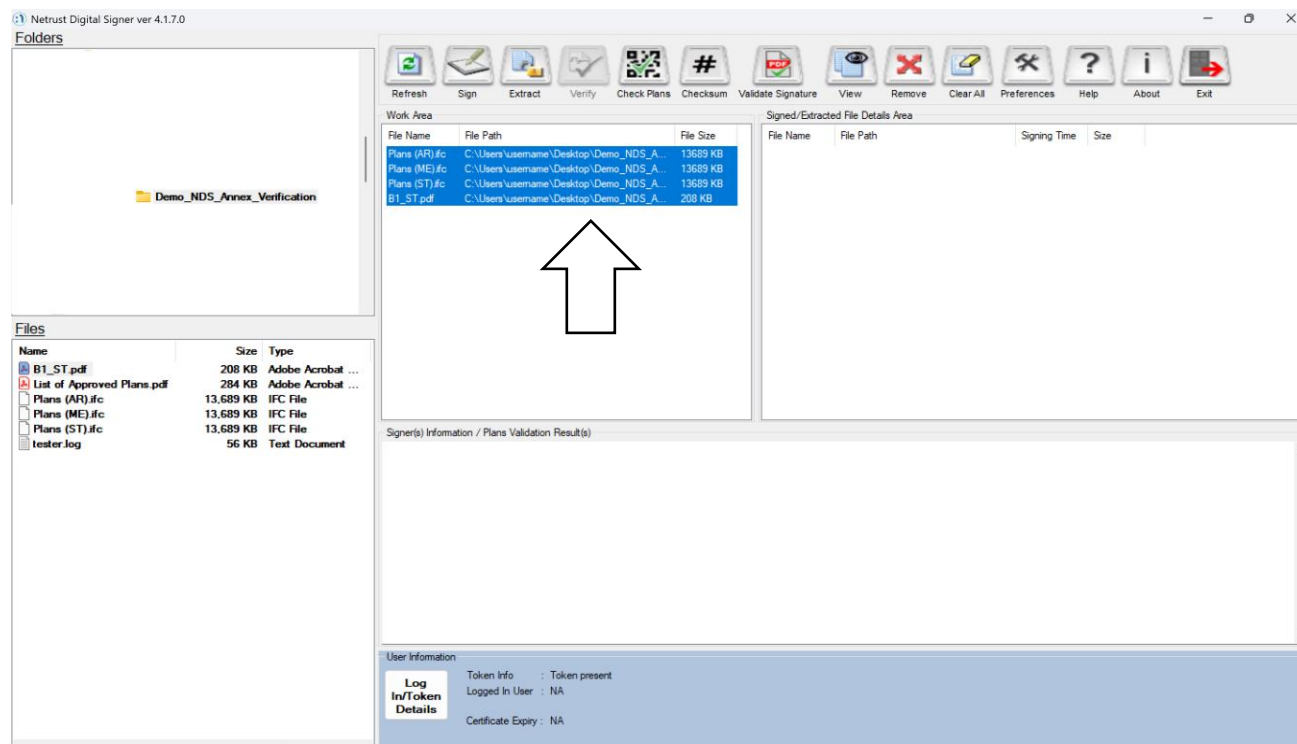
3.3. Adding the files to Work Area

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



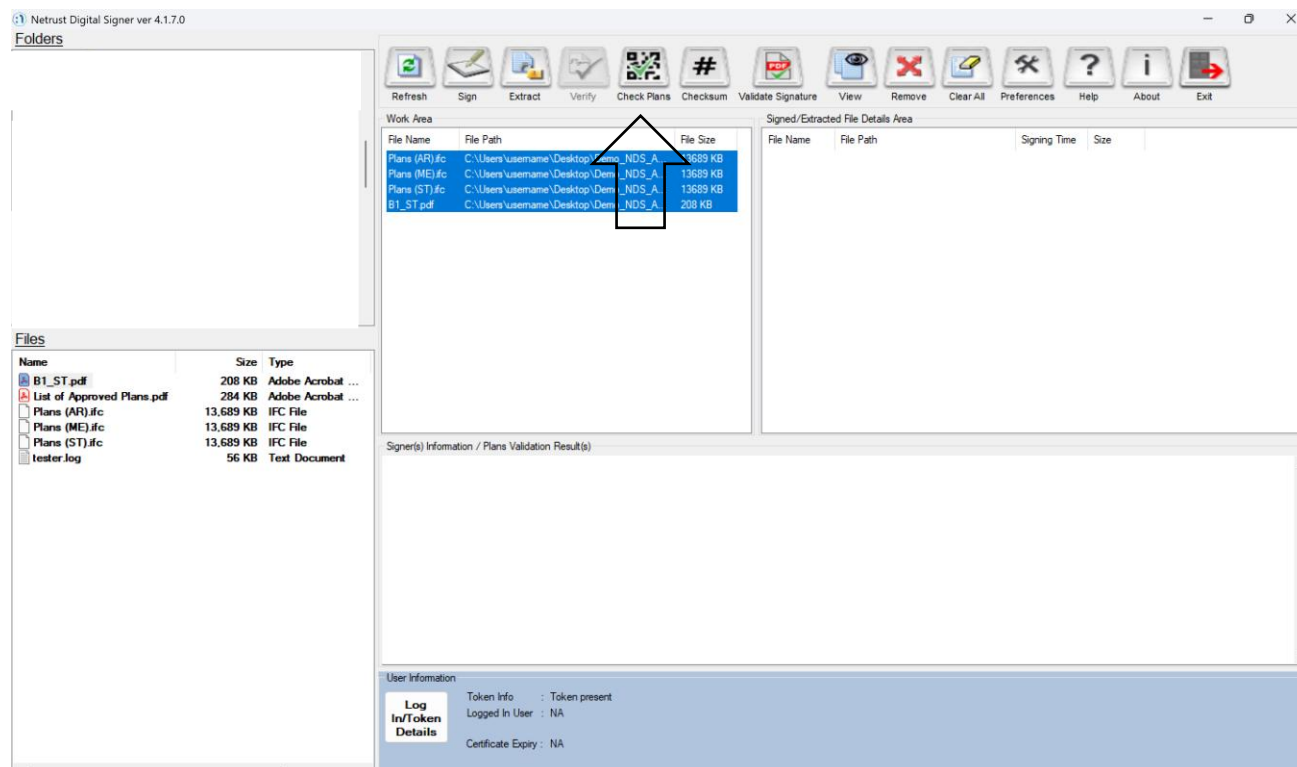
3.4. Selecting the file(s) to be validated

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.

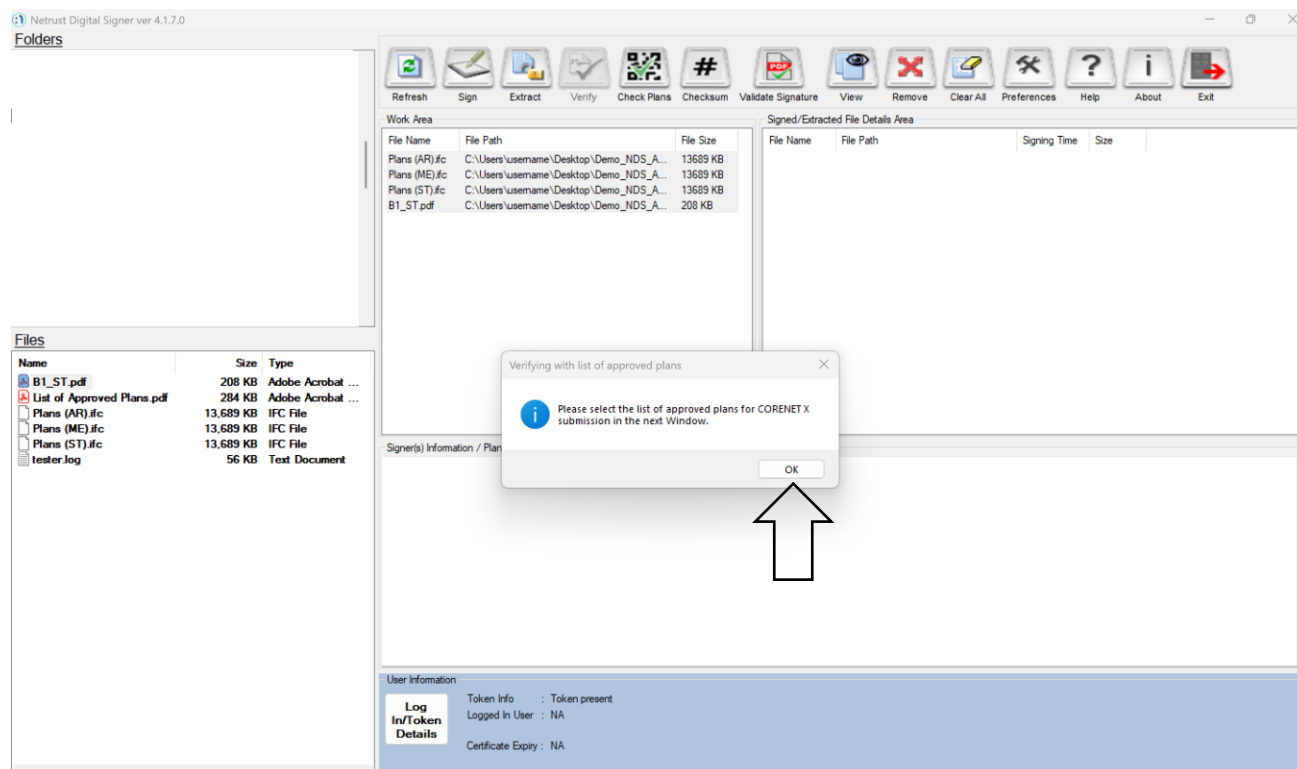


3.5. File(s) validation

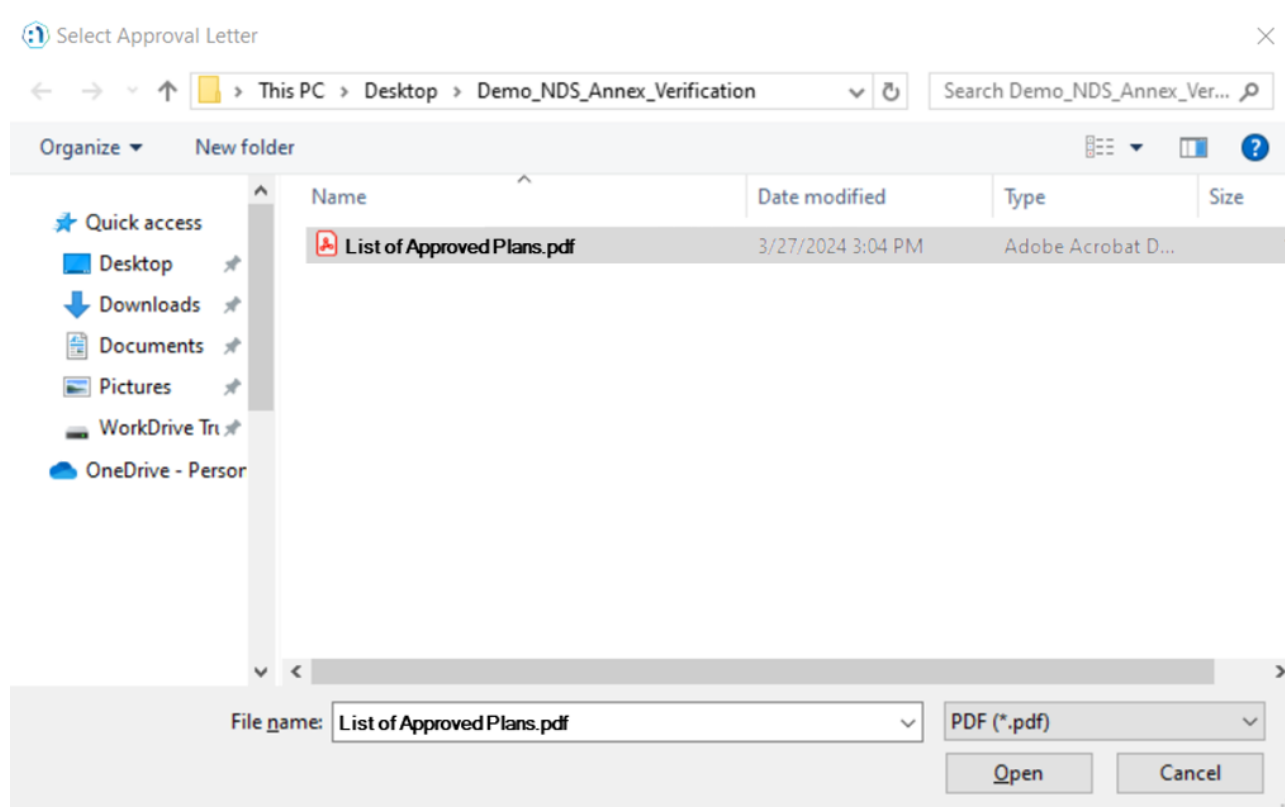
After selecting the desired files to be validated, click on the “Check Plans” button.



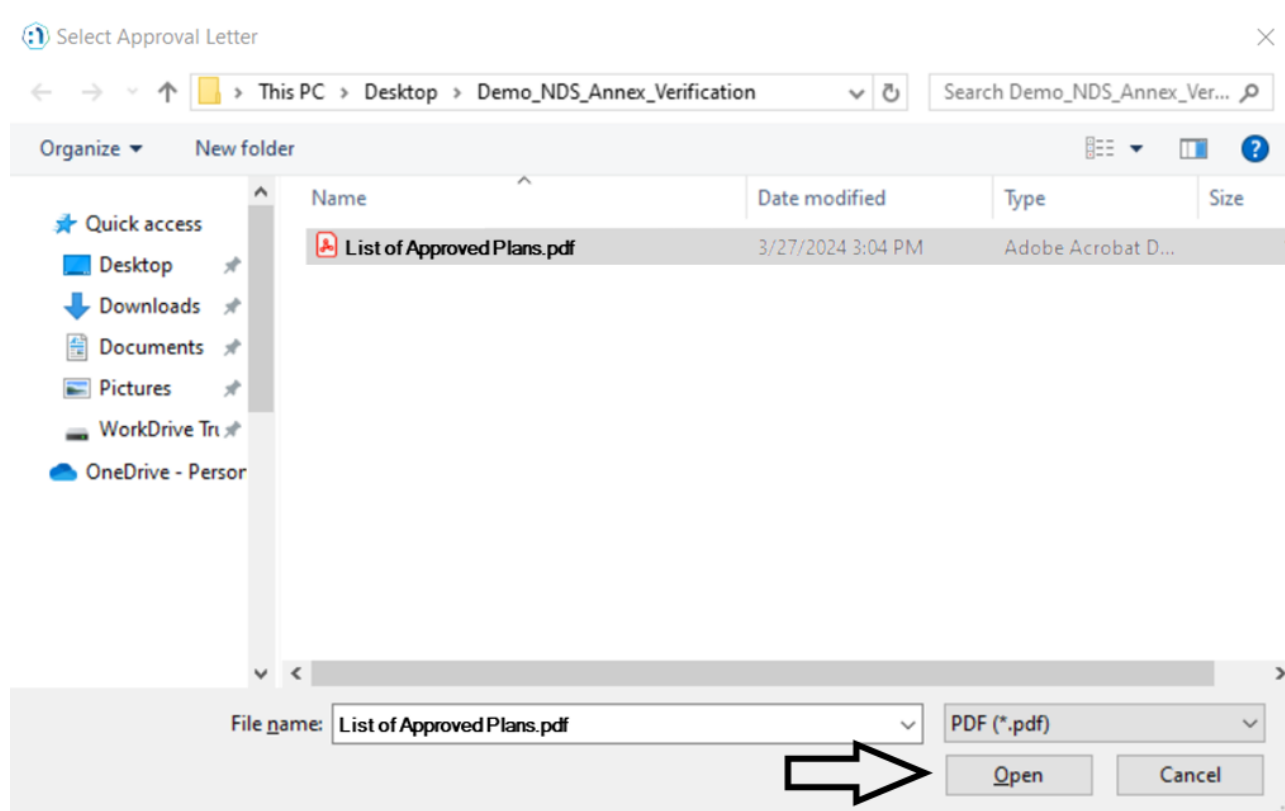
Click on the OK button when prompted



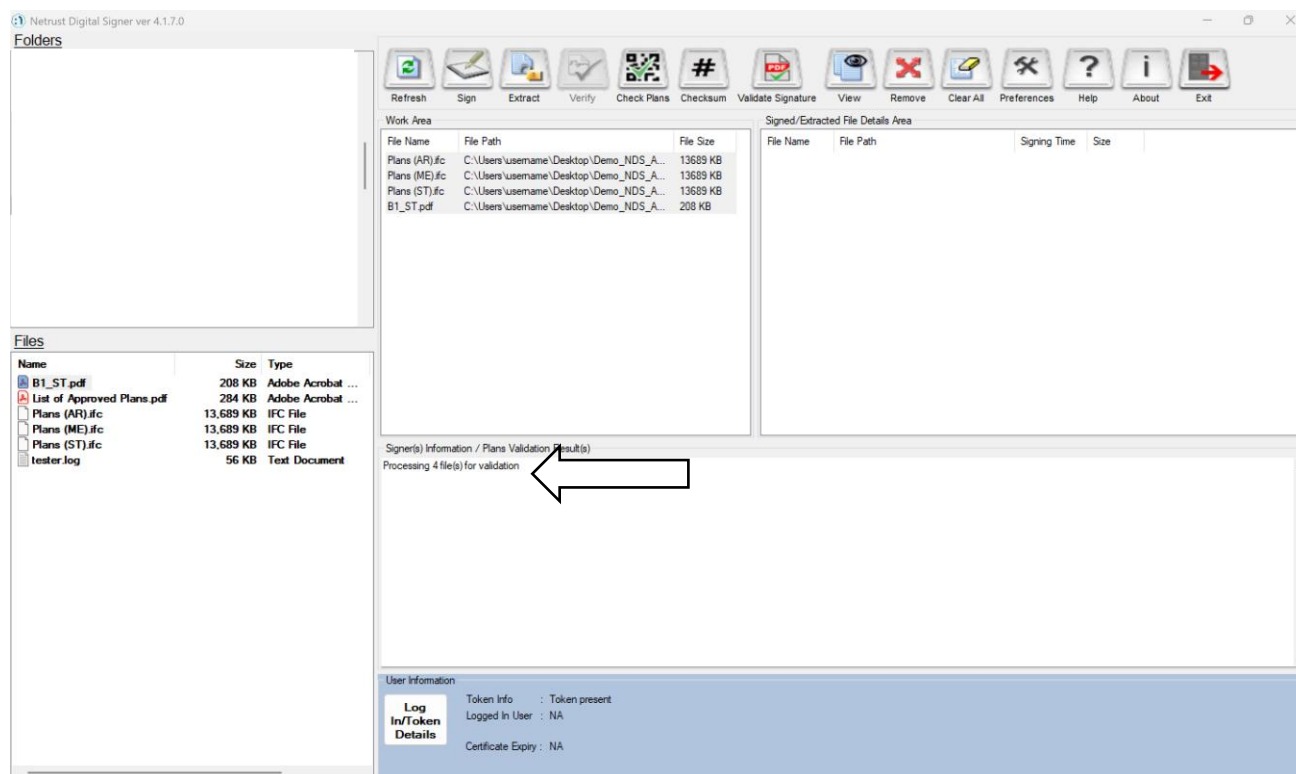
Thereafter, navigate to the folder containing the approval PDF letter (List of Approved Plans) from CORENET X and select the file.



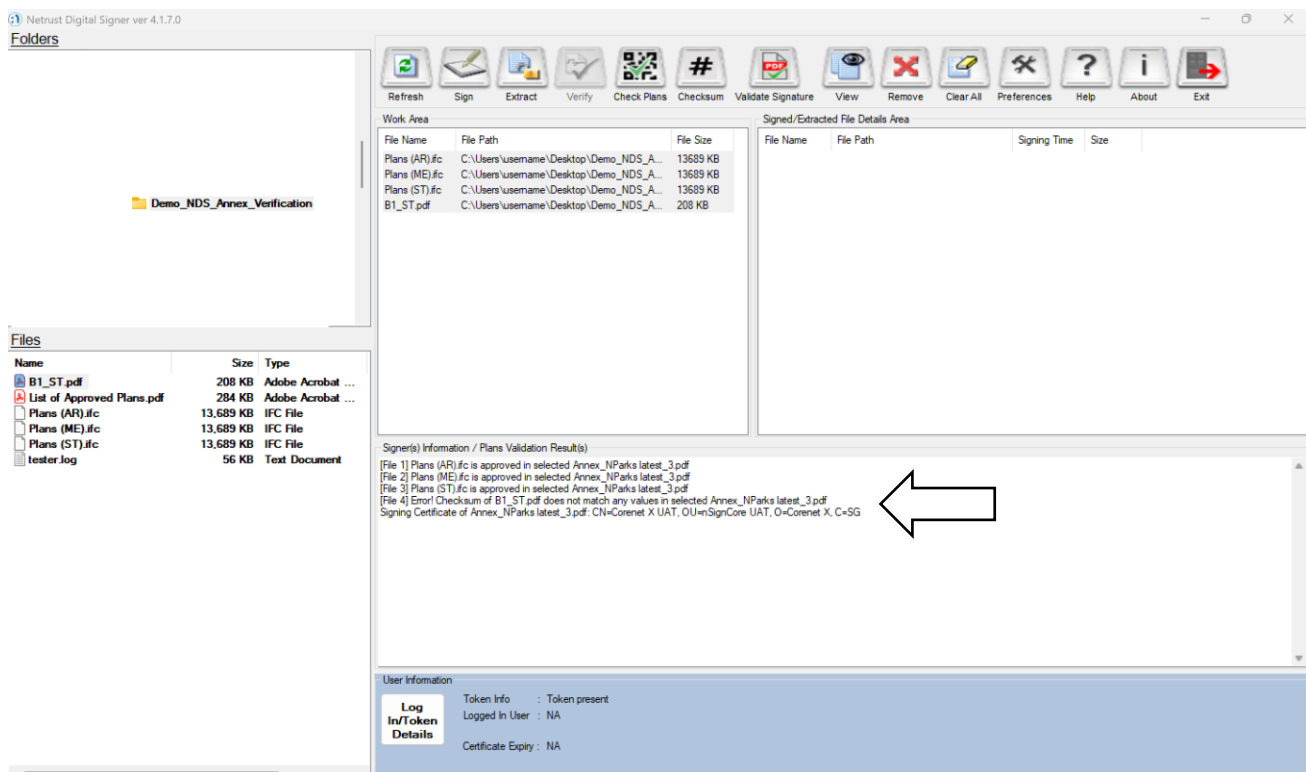
After selecting the file, click on Open



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:

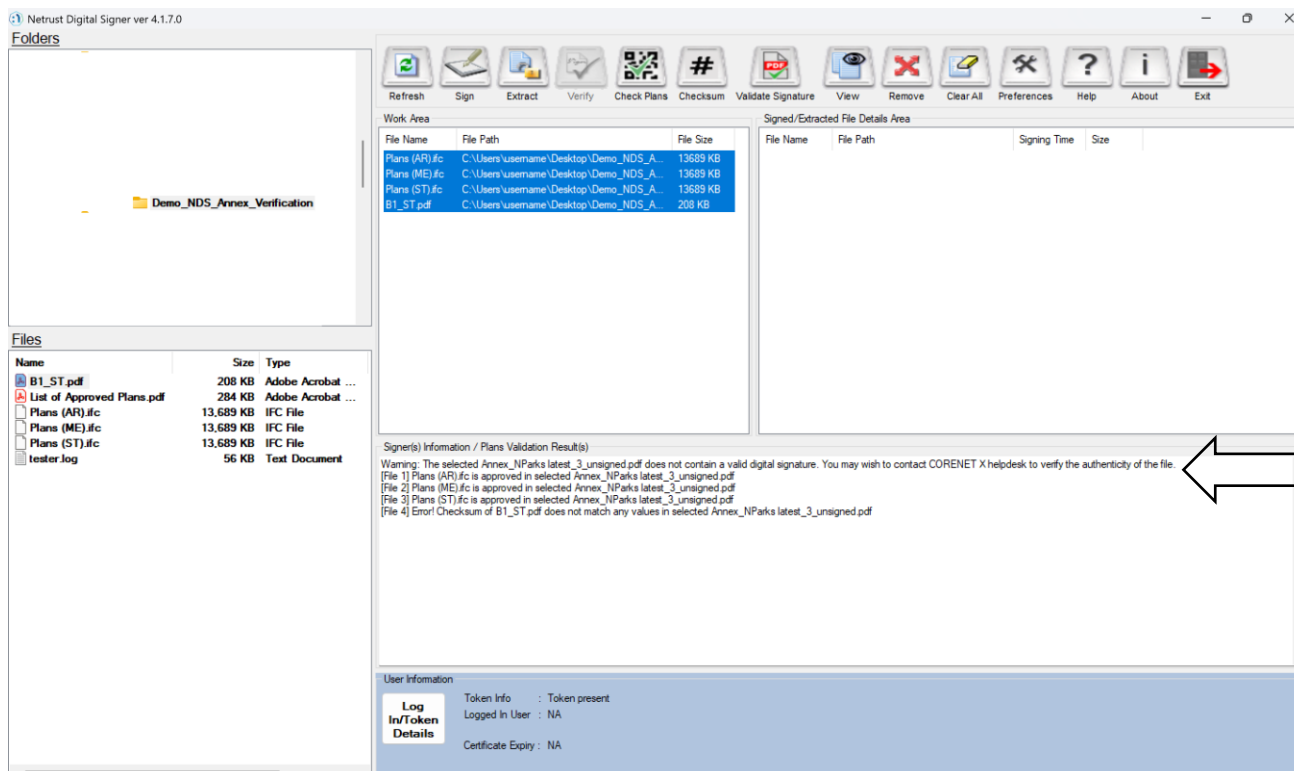
<Filename of file to be validated> is approved in selected <filename of List of Approved Plans>

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

When performing validation with an unsigned approval letter:

To warn users when selecting a **unsigned** approval letter, upon successful validation with a unsigned file, 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.

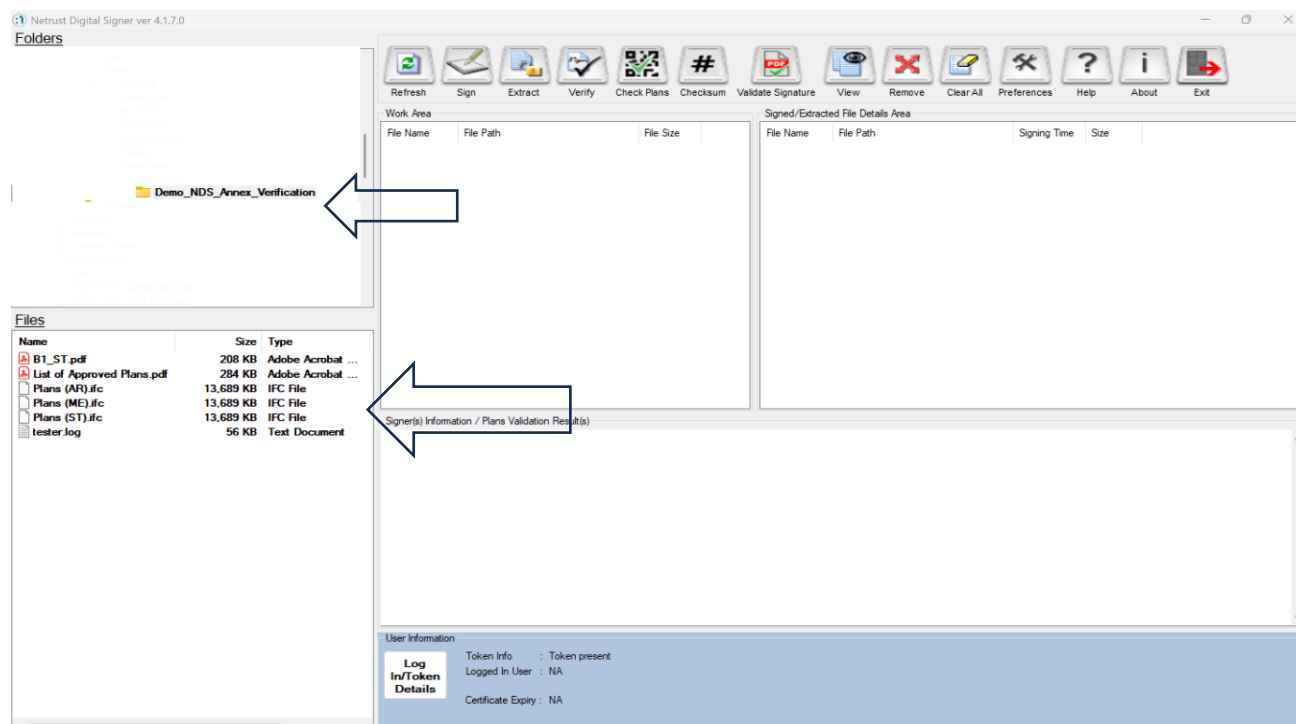
Warning: The selected Annex_NParks latest_3_unsigned.pdf does not contain a valid digital signature. You may wish to contact CORENET X helpdesk to verify the authenticity of the file.

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

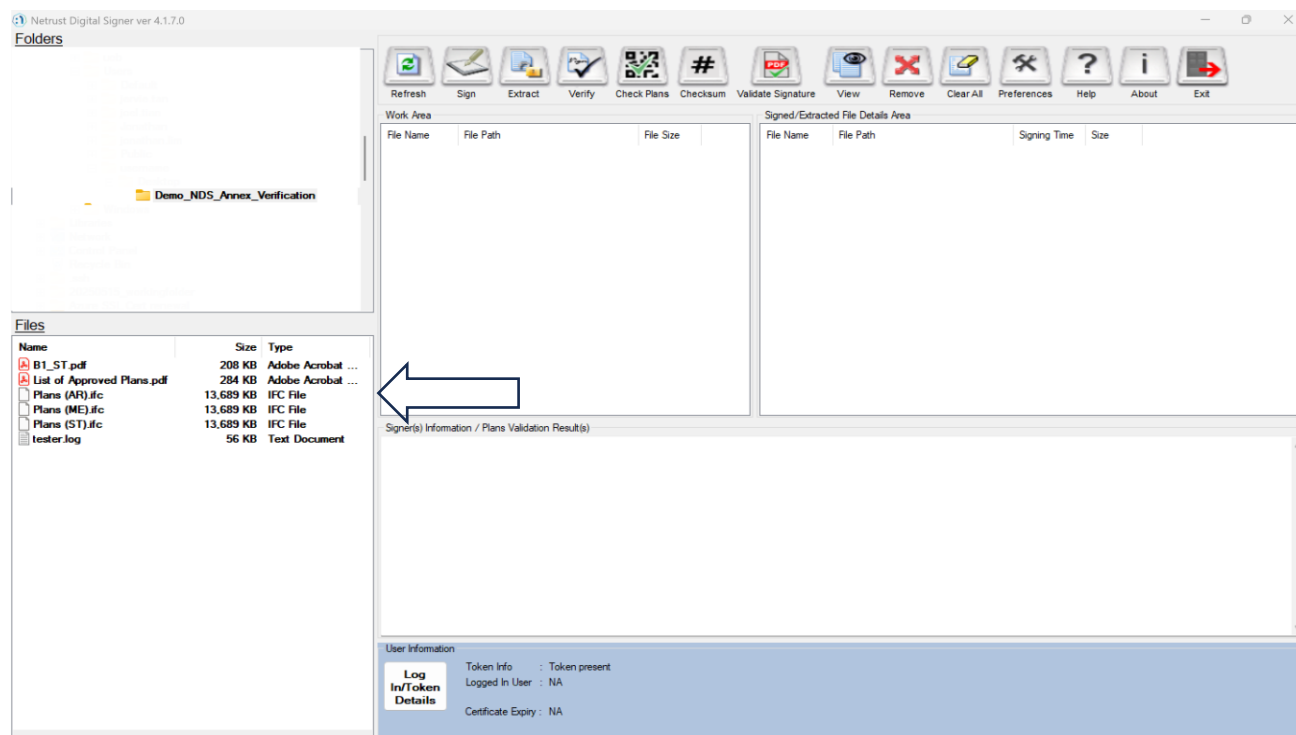
4. File Checksum generation

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.

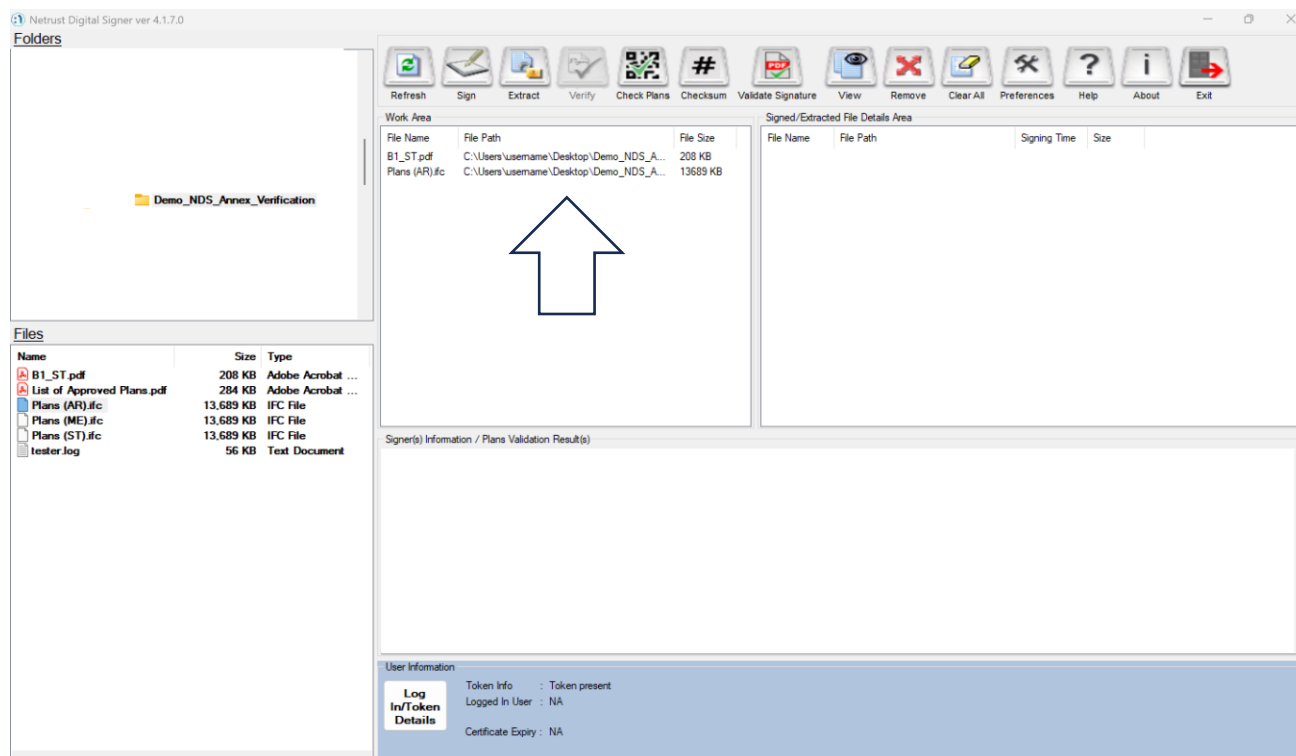


Click on the desired folder and the files in the folder will appear under the files selection area.



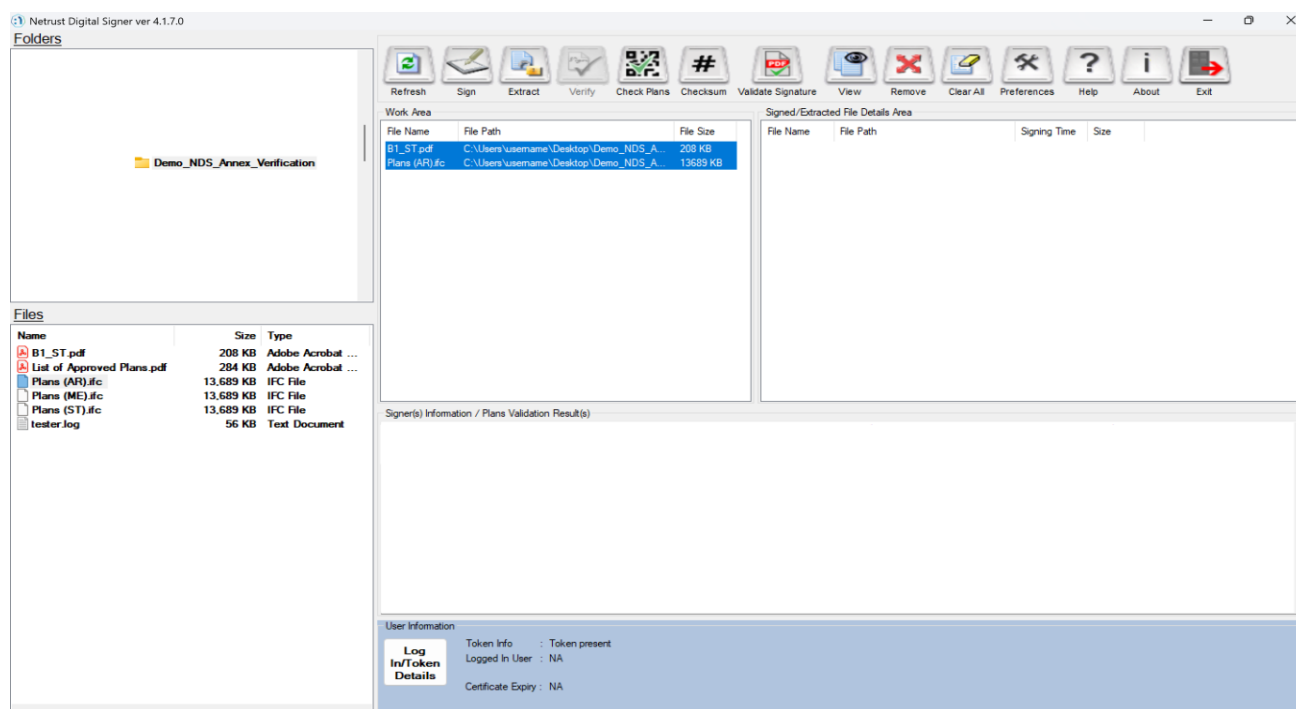
4.2. Adding the files to Work Area

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



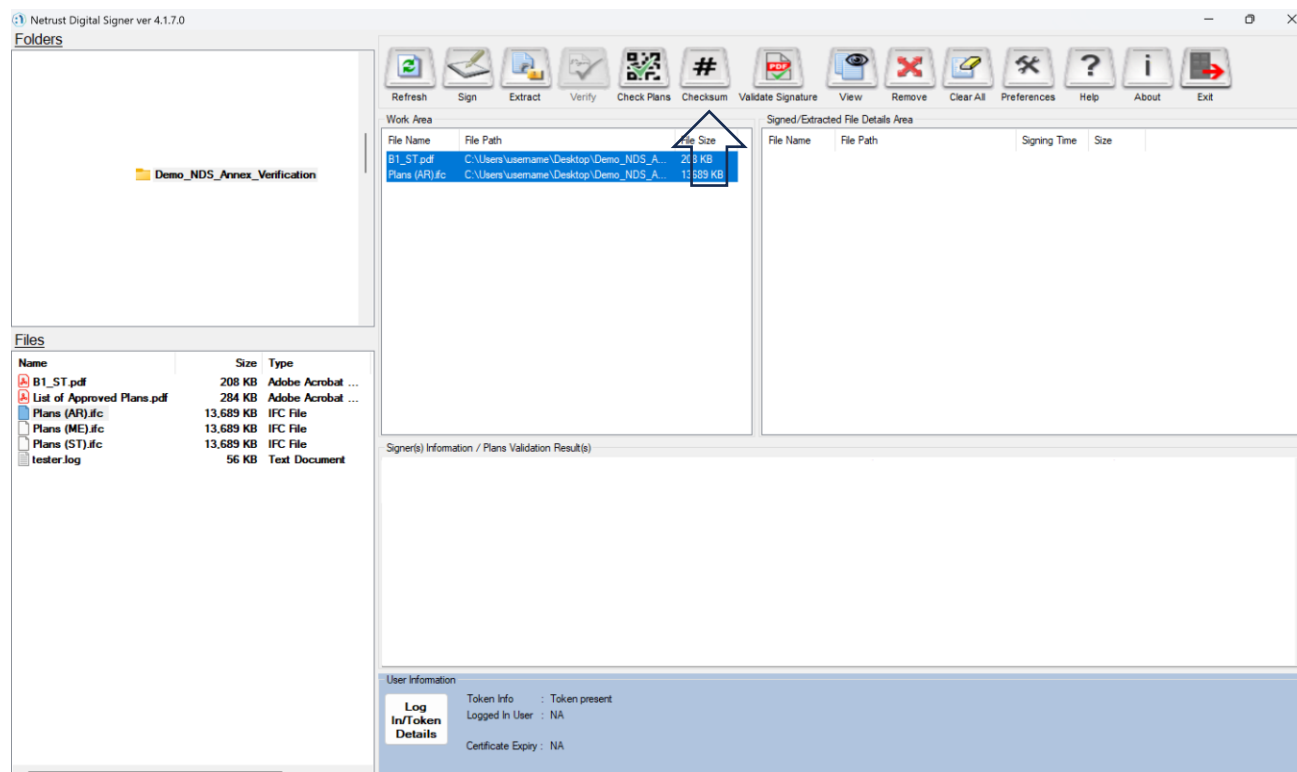
4.3. Selecting the file(s) to generate their checksum

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.

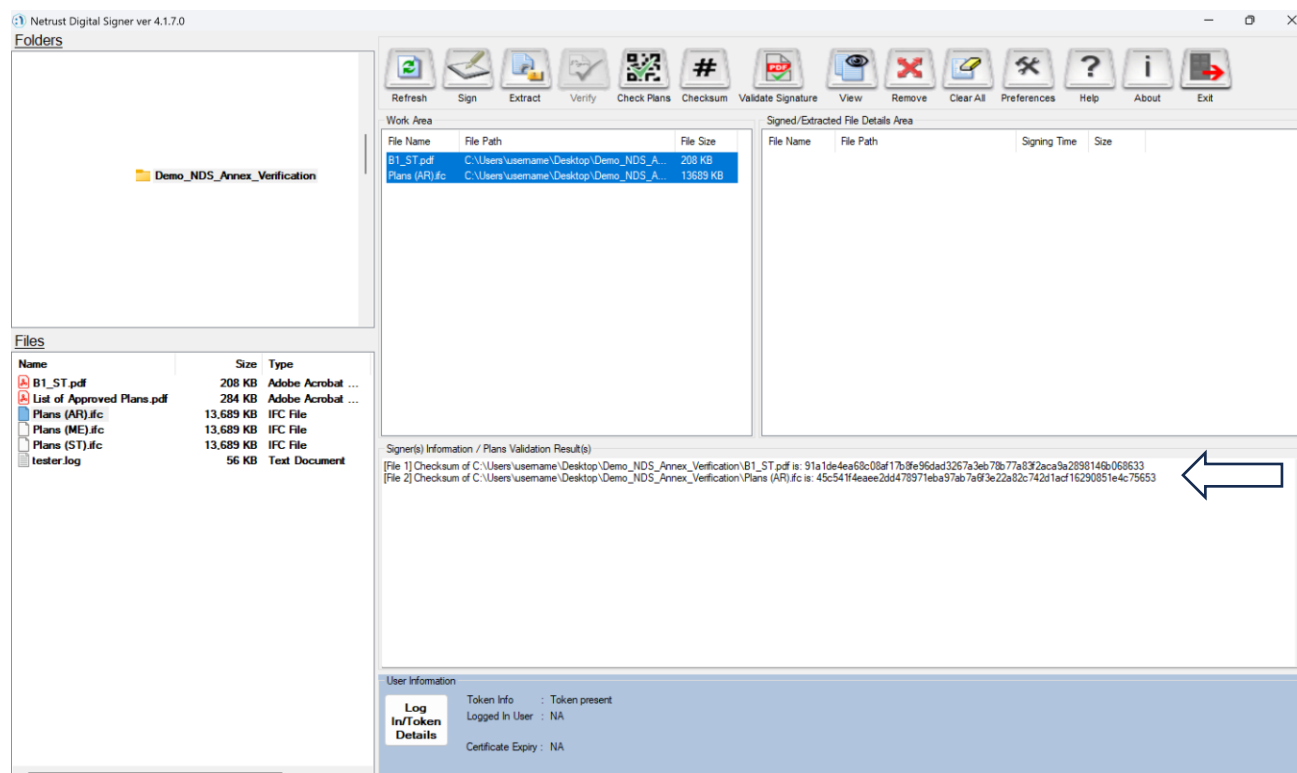


4.4. Checksum generation

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



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



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

Checksum of <File Path> is: <Checksum>

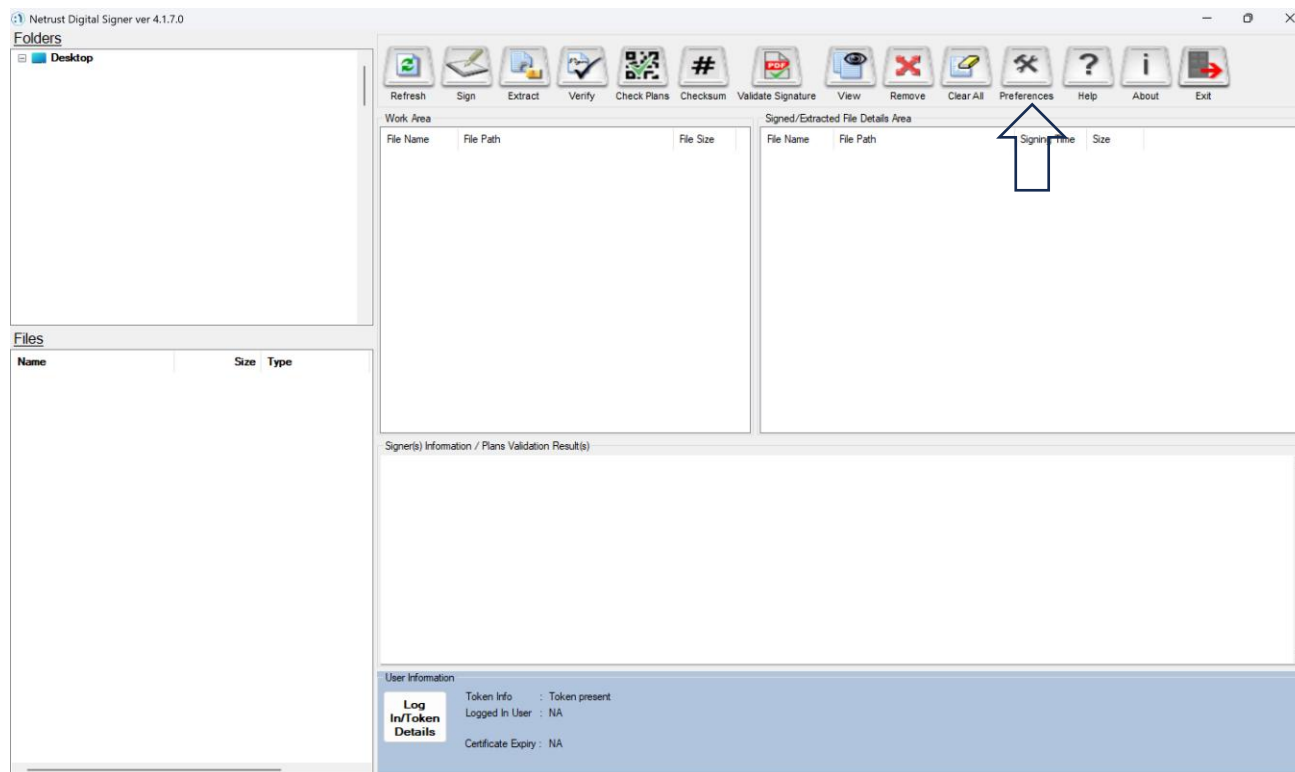
For example, if the file sample.txt on C drive and the checksum of the file is 688213asklddsfnm3241hb2j3, the following message will be shown.

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

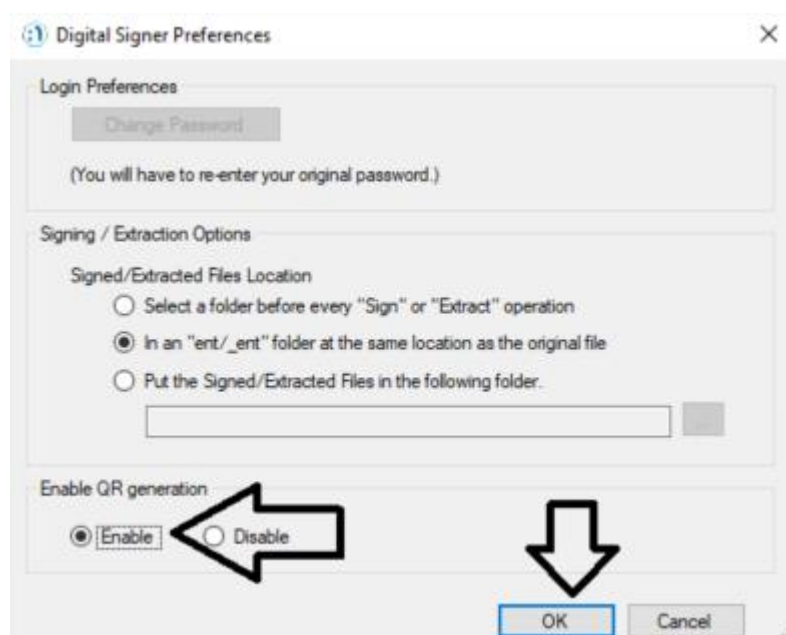
5. Checksum QR generation

5.1. Enable the feature

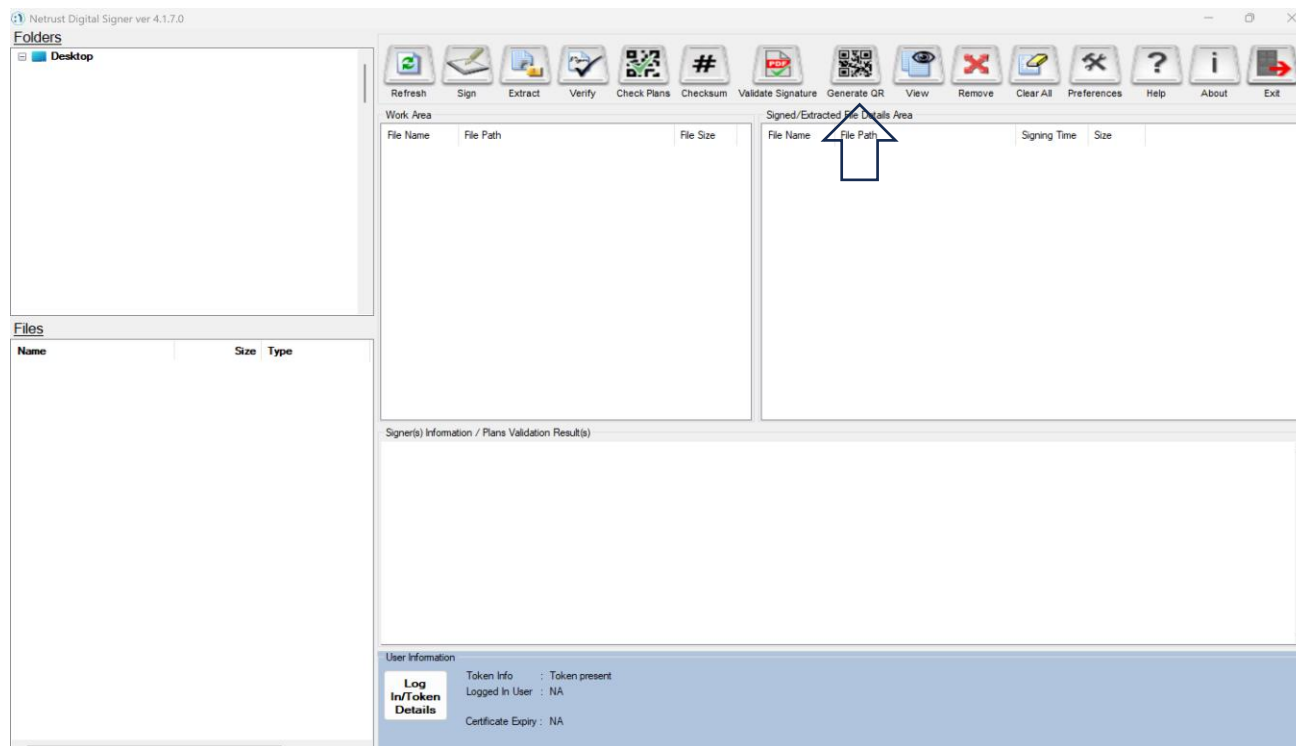
Click on the “Preference” button



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

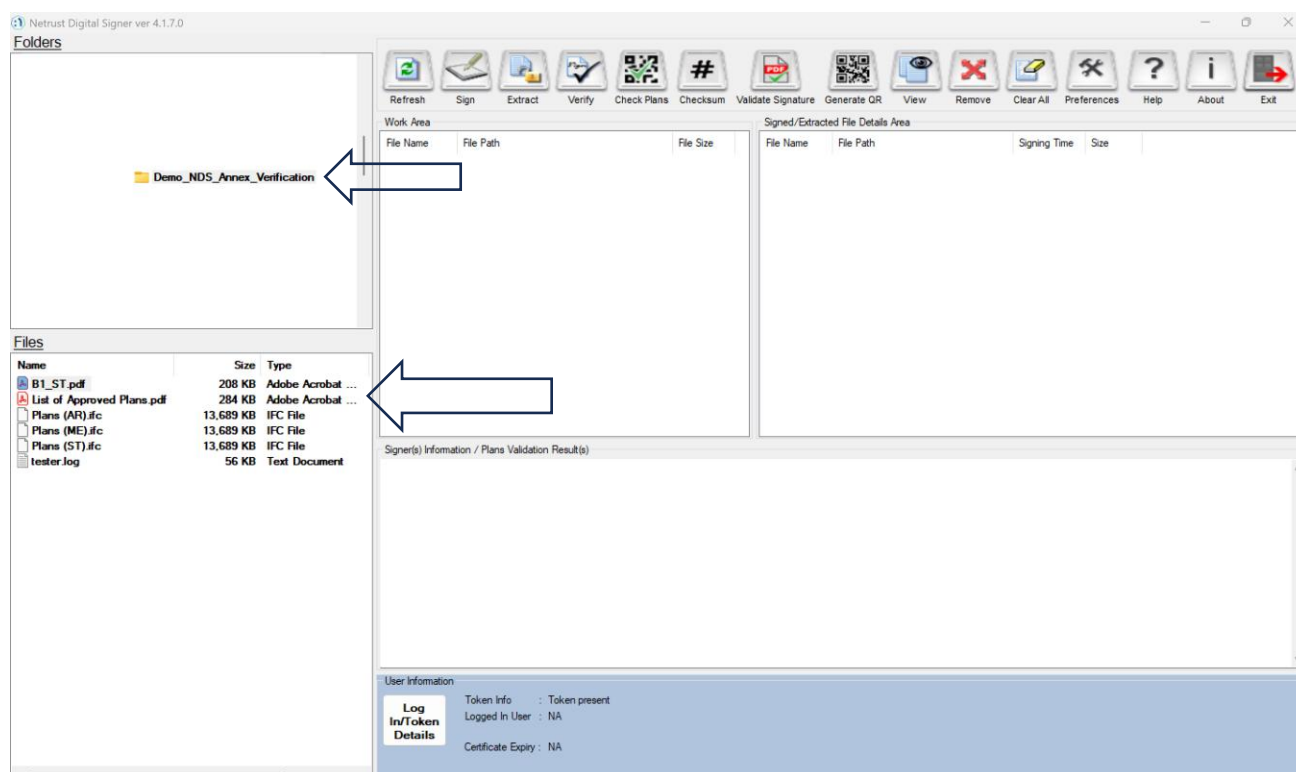


Once completed, a new “Generate QR” button will appear.

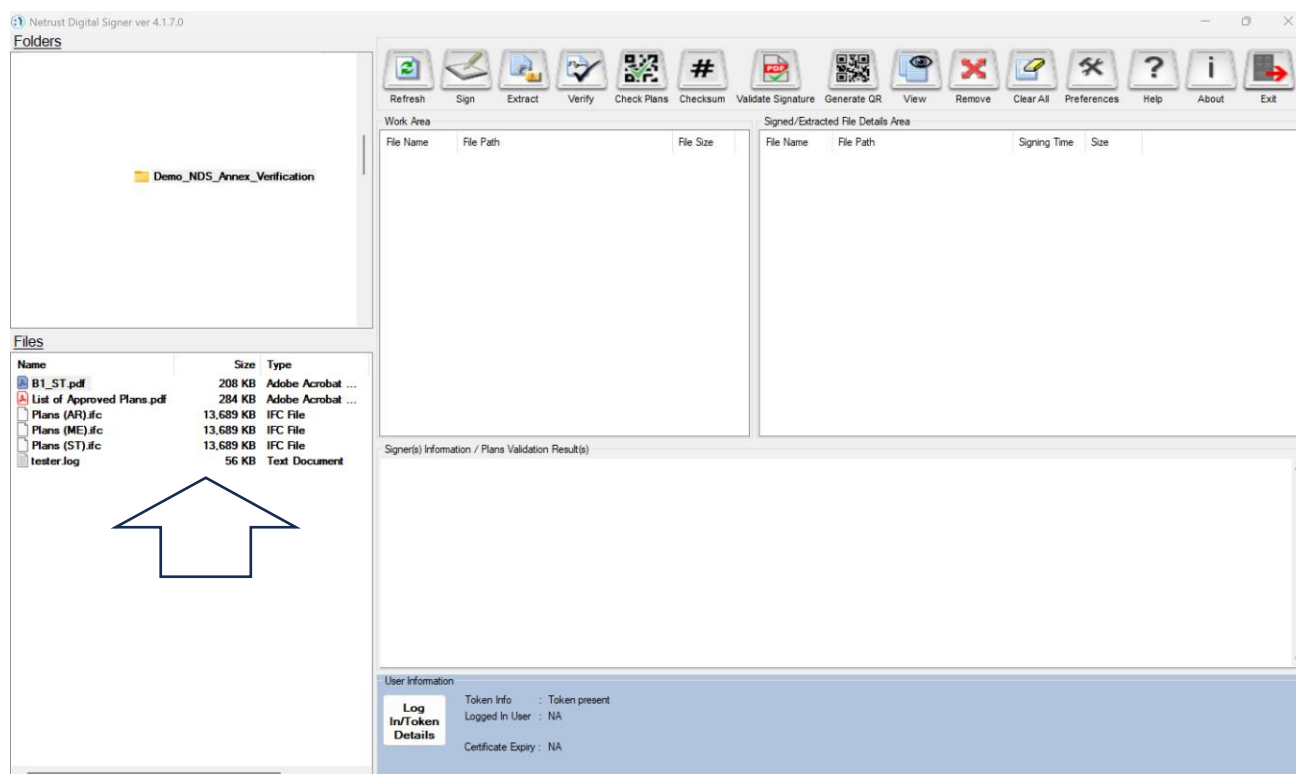


5.2. Navigate to the folder containing the desired files

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

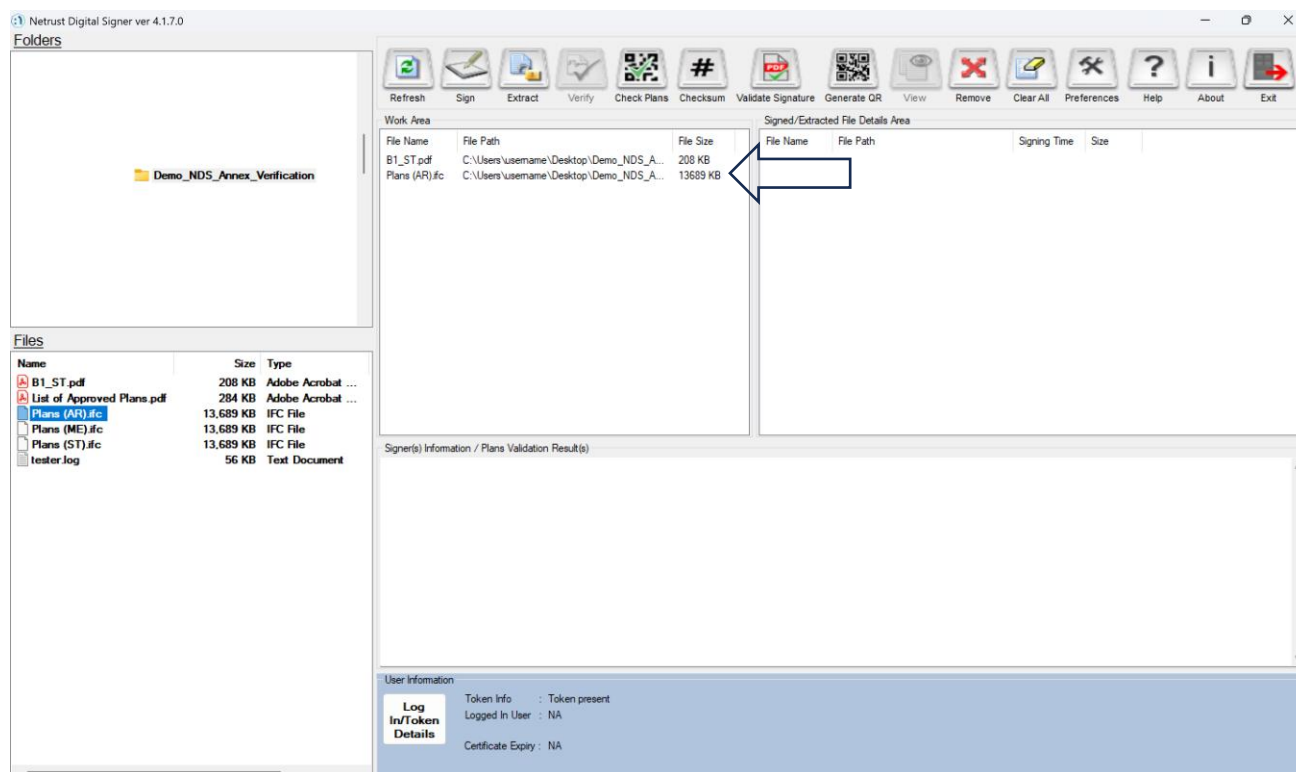


Click on the desired folder and the files in the folder will appear under the files selection area.



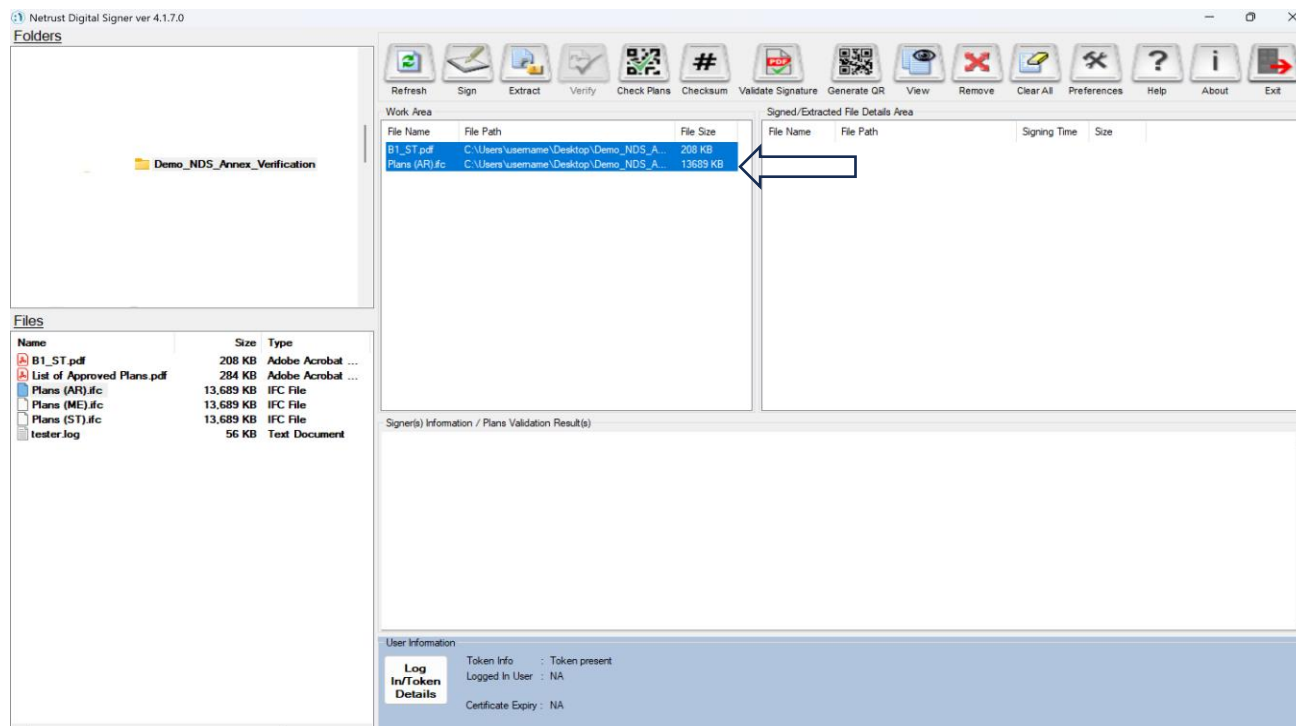
5.3. Adding the files to Work Area

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



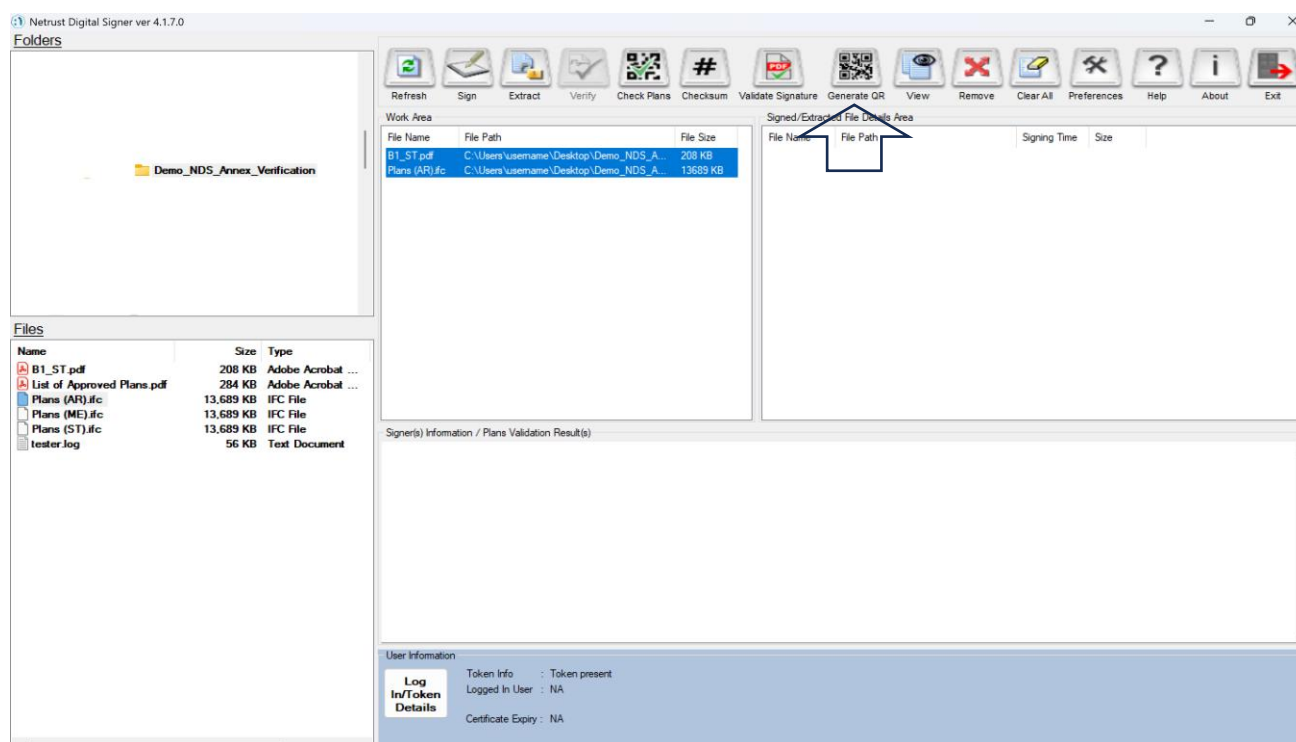
5.4. Selecting the file(s) to generate the QR code

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.

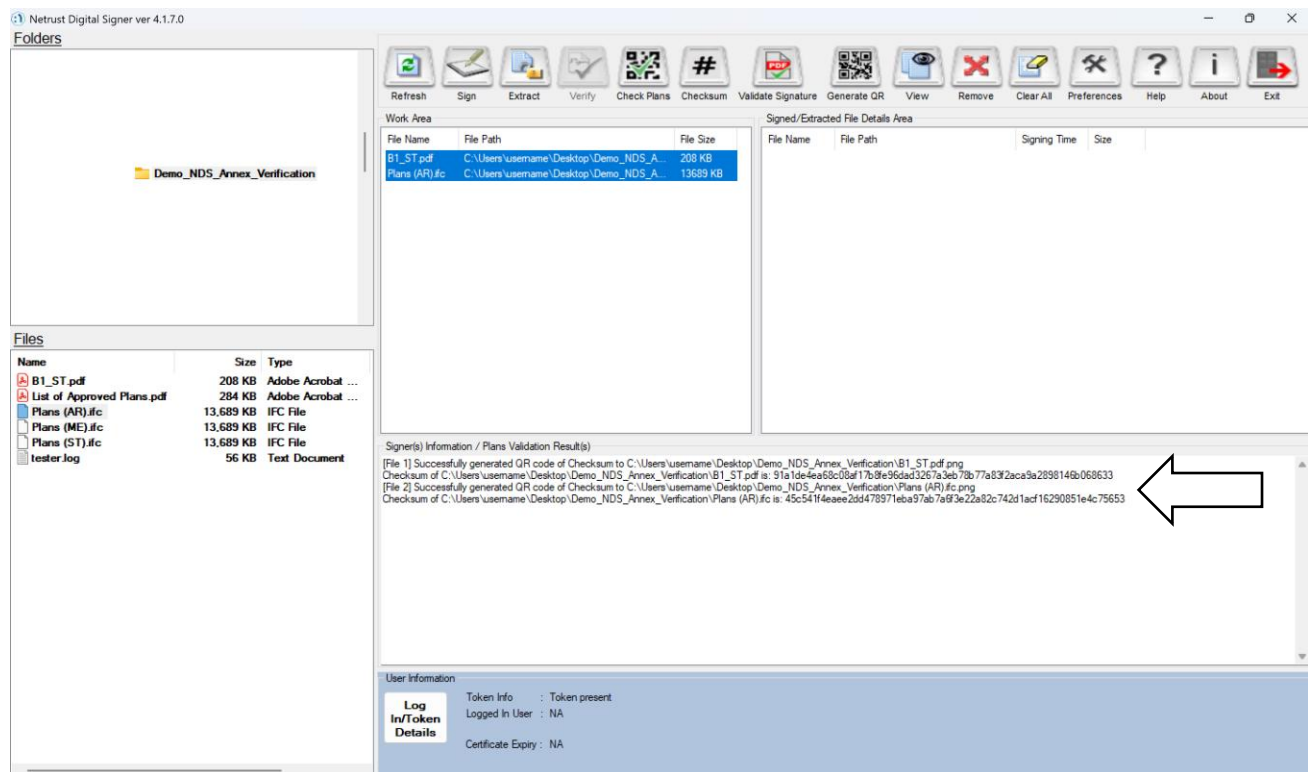


5.5. QR generation

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



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



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

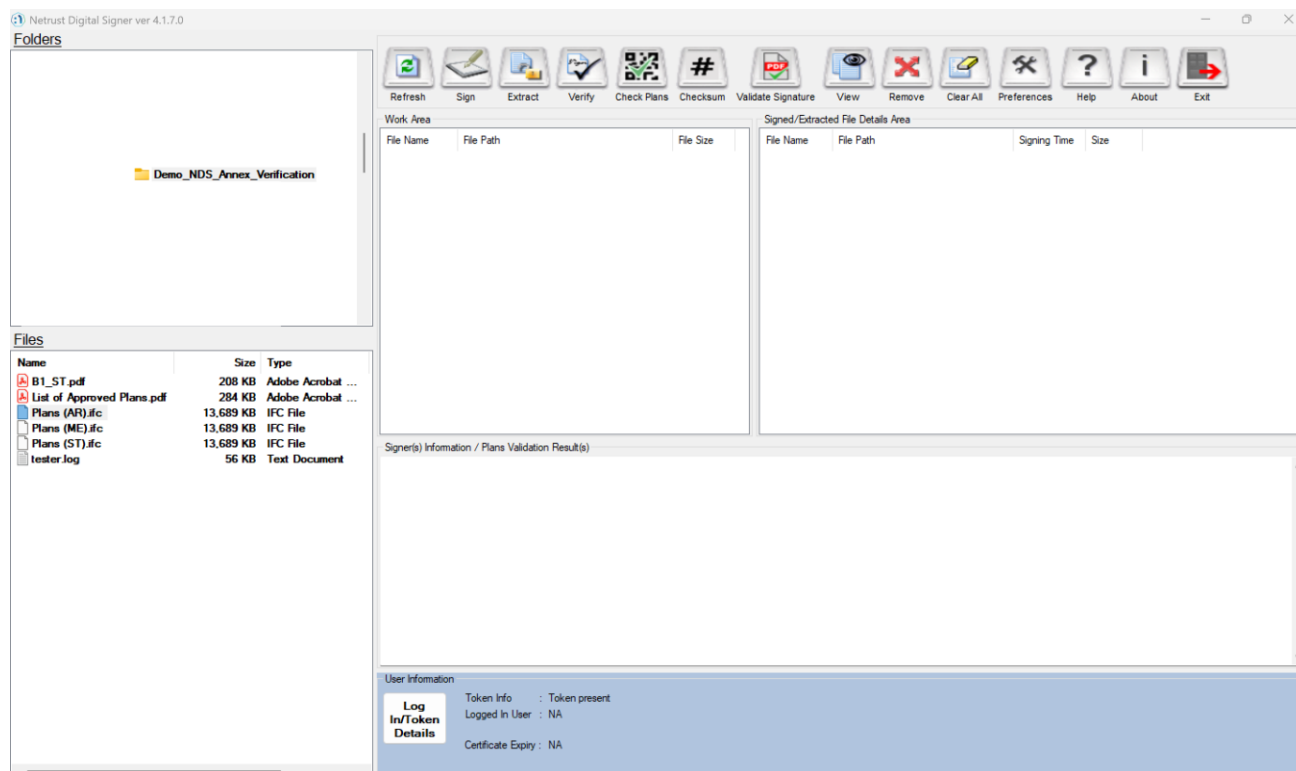
6. Validating Signature

This feature is only available on Netrust Digital Signer (NDS) version 4.1.7 and above.

In order to use these features, NDS requires the installation of Java 21 and above.

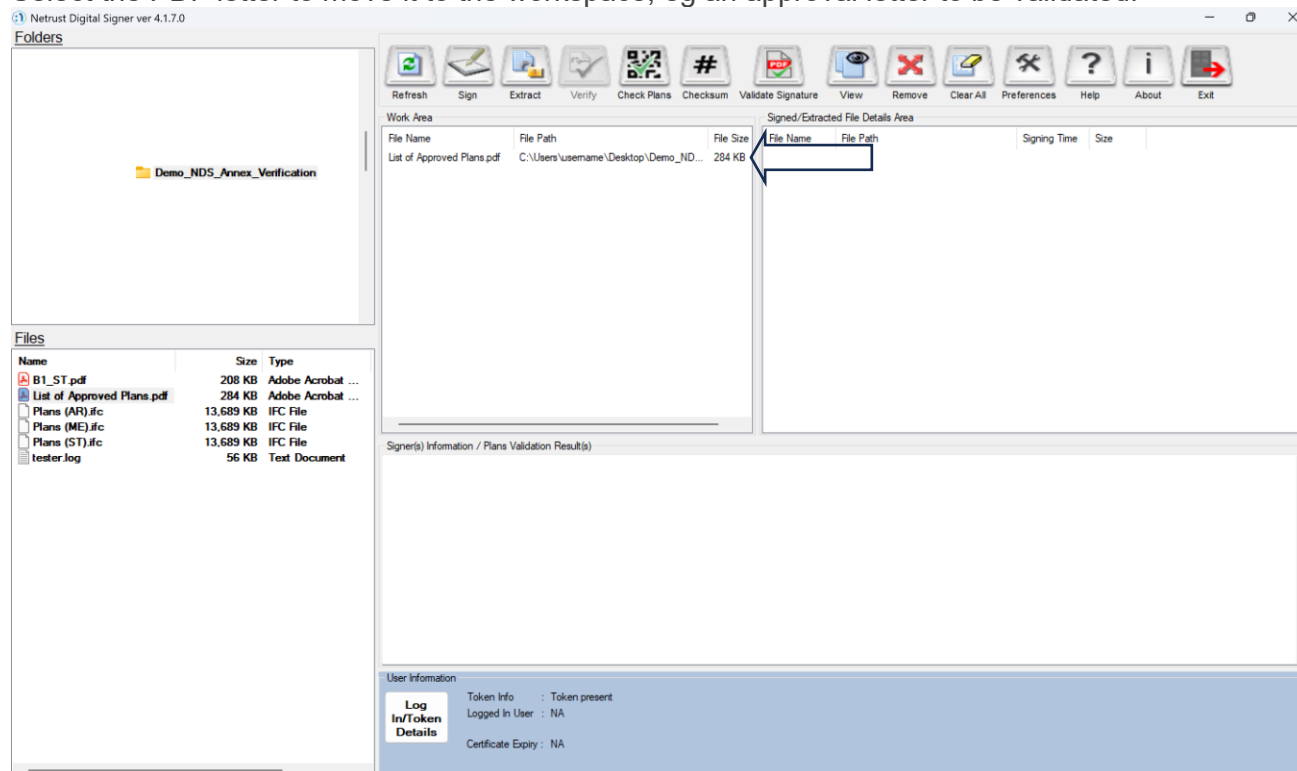
6.1. Navigate to the folder containing the desired files

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



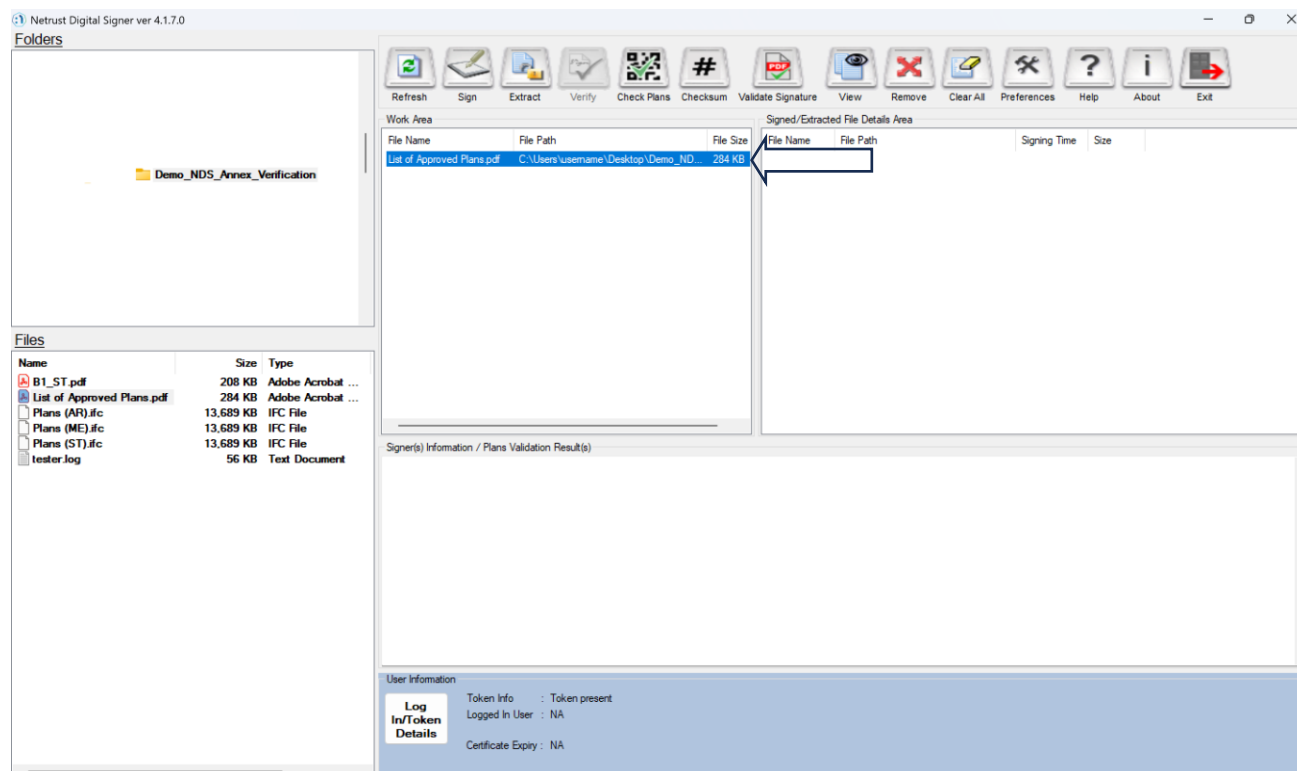
6.2. Selecting the PDF to be validated

Select the PDF letter to move it to the workspace, eg an approval letter to be validated.



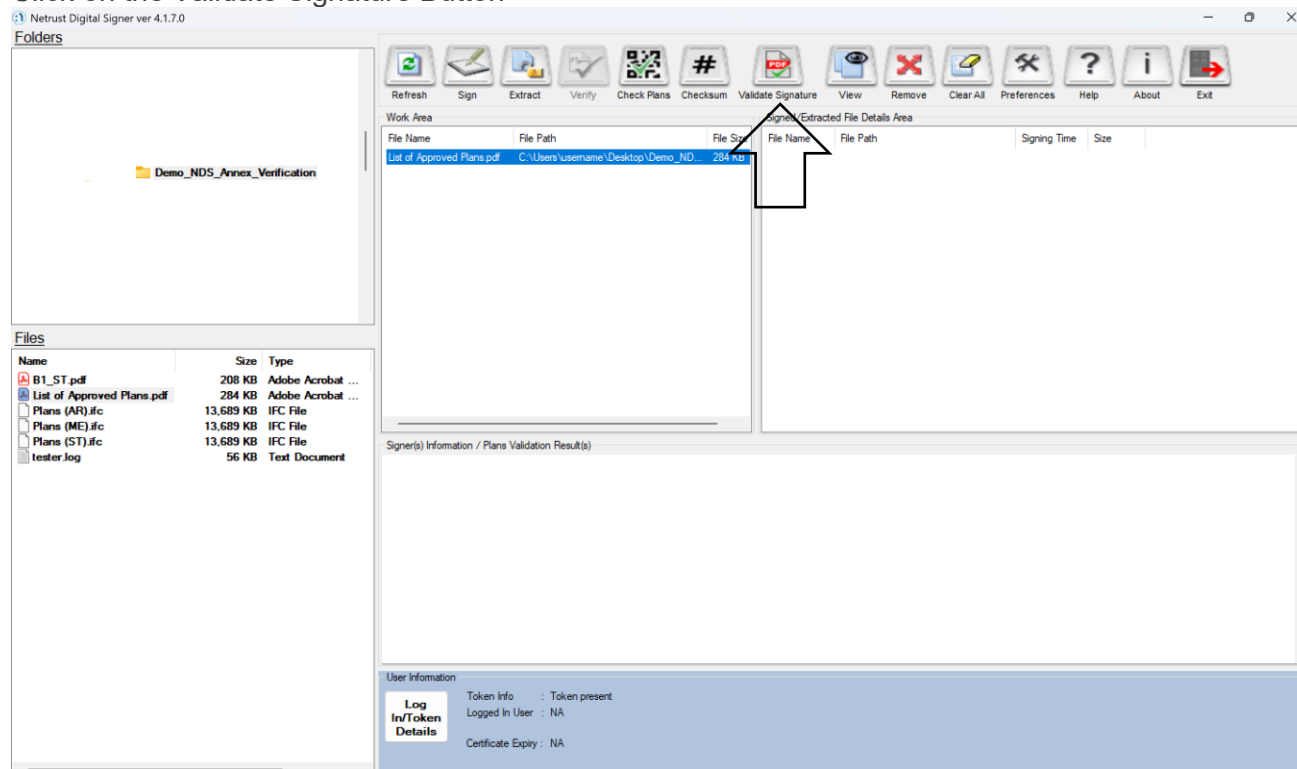
6.3. Select the signed PDF to be validated

Select the signed PDF to validate, you may select up to 10 files to be validated

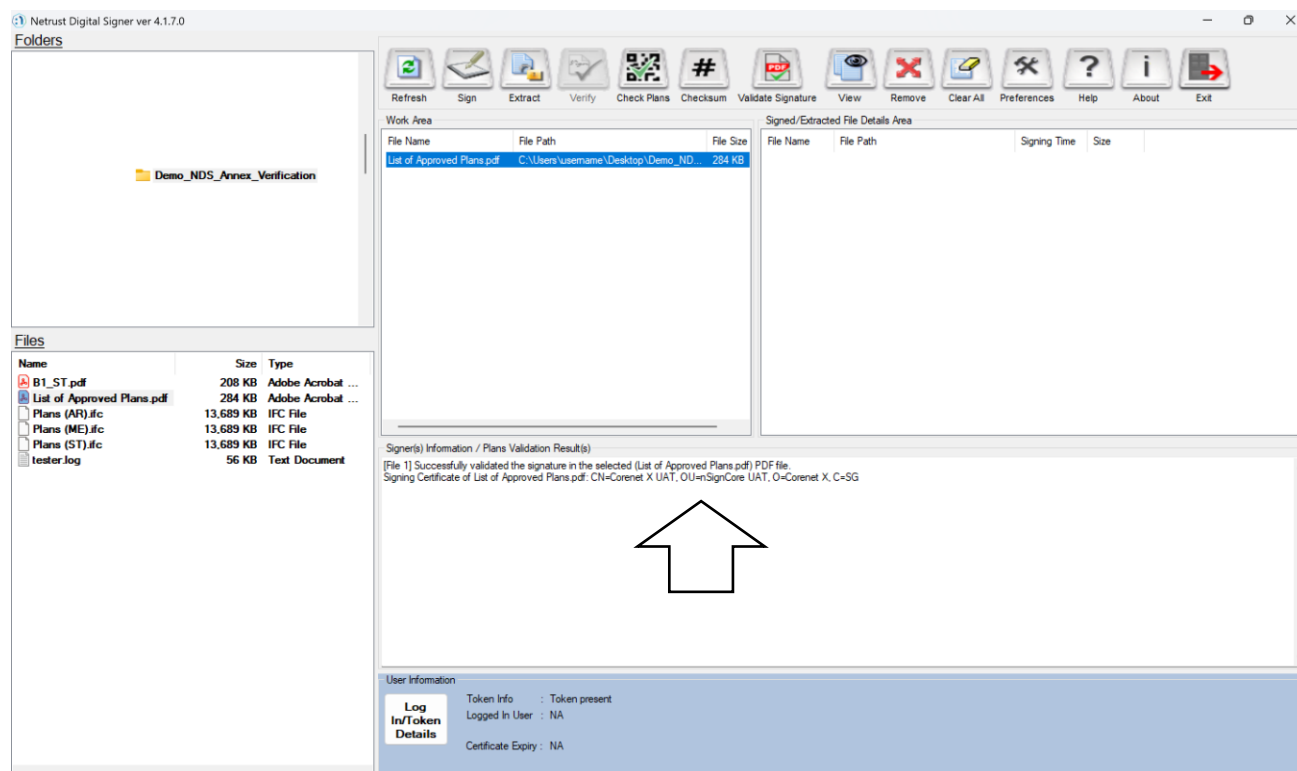


6.4. Validate Signature

Click on the Validate Signature Button

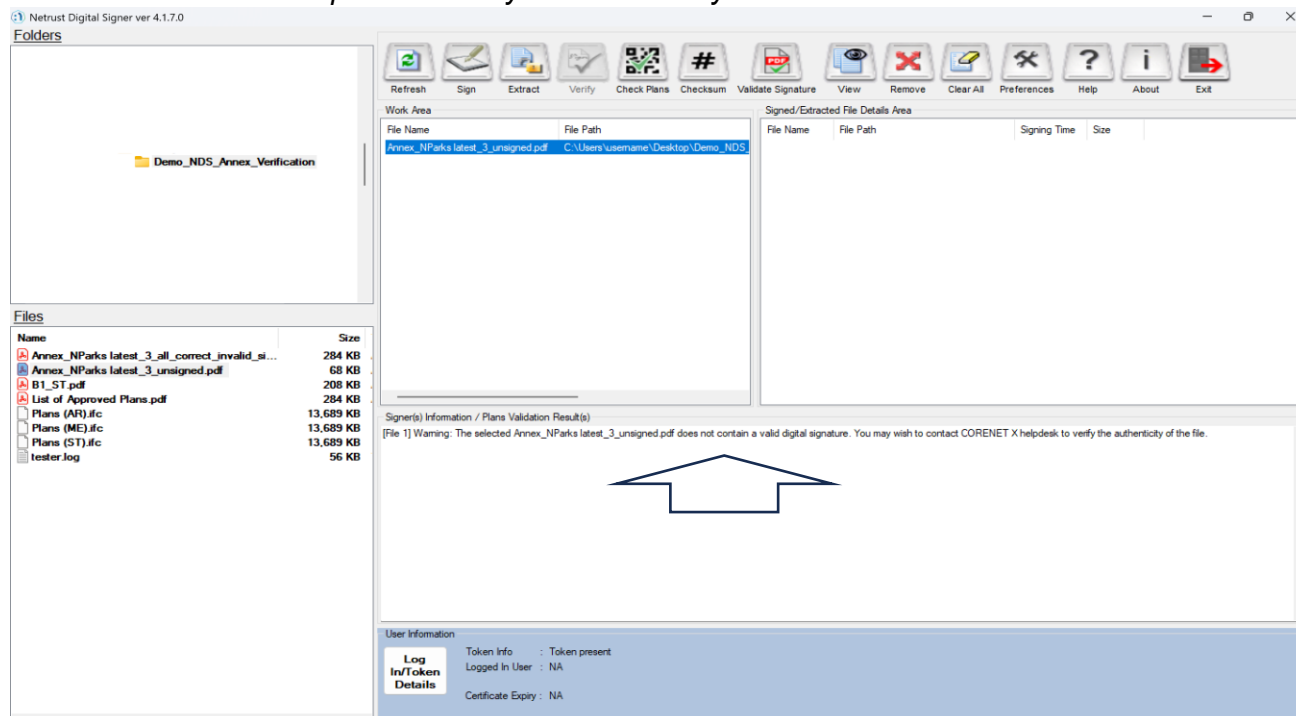


Once the process is completed, results will be shown in the “Signer(s) Information / Plans Validation Result(s)” tab.



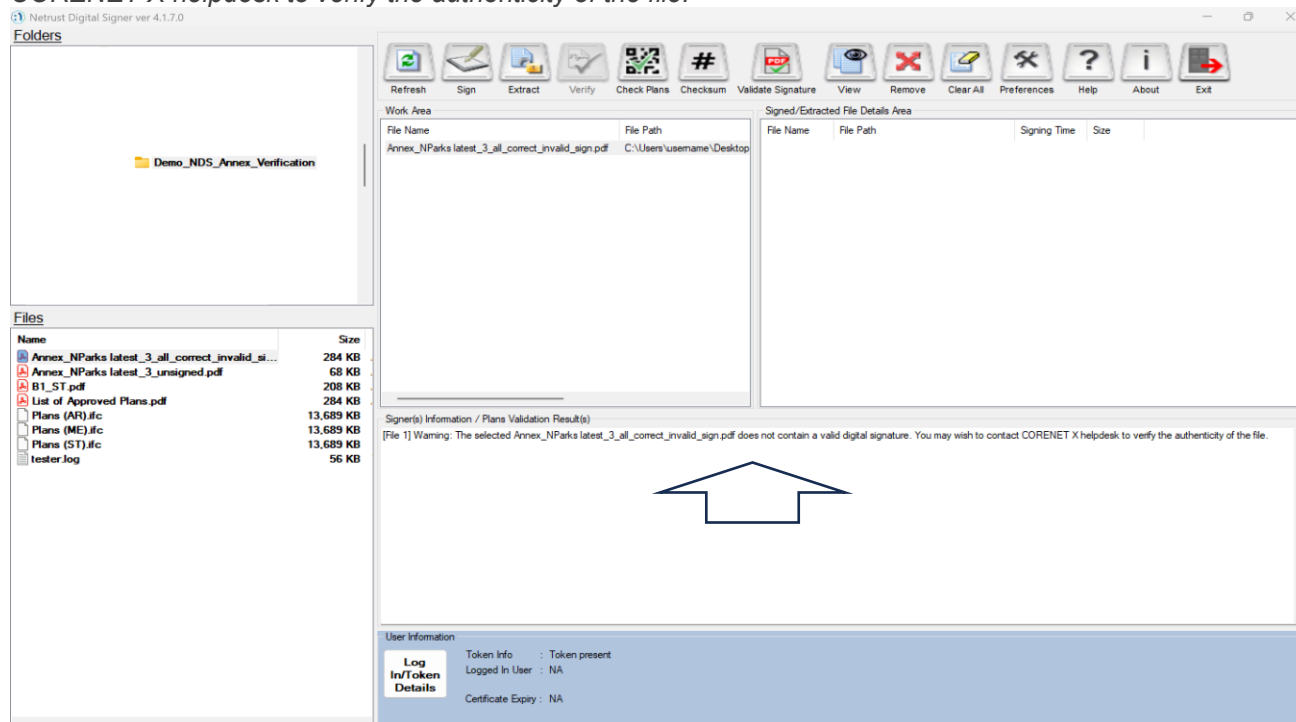
To warn users when selecting an **unsigned** PDF file, upon successful validation of an unsigned file, the following warning message will be shown:

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



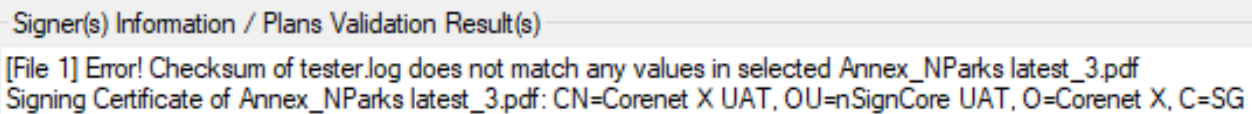
To warn users when selecting an **signed** PDF file with invalid signature(s), upon successful validation of a signed file with invalid signature, the following warning message will be shown:

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



7. Common error

7.1. 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).

7.2. 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>

7.3. 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 customersupport@netrust.net 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