TRUSTGATE
SECURE TRANSACTION. TRUSTED BUSINESS

MSC TRUSTGATE.COM SDN. BHD.

USER GUIDE

LHDN e-Invoice Organization Certificate

Version 1.3

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Revision History

#	Date	Changes	Version
1	15 May 2024	First Version	1.0
2	11 June 2024	Add Section 7.1.3 Certificate Authority and Revocation Information	1.1
3	11 July 2024	Add: 1. Section 4.1 KeyStore Explorer 2. Section 8 Updating Info in MyTrustID portal 3. Section 9 Certificate Revocation	1.2
4	14 Aug 2024	1. Replace the term ‘Certificate Only’ to ‘Soft Certificate’ 2. Update: i. Section 3.1 Required Information – Update link for LOA ii. Section 4.1.2 Package & Pricing Page – Update type of certificate packages iii. Section 4.1.3 Application Info page – Include Soft Certificate Options iv. Section 4.1.4 Disclaimer Page –Update the latest image of Subscriber Agreement v. Section 4.2.1 Roaming Certificate - Add email received by user for API Authentication token/ key vi. Section 4.2.2 Soft Certificate – Update certificate activation according to the Soft Certificate Option 3. Add Section 5.2.2.3 OpenSSL 4. Add Appendices 5. Add Section 7.3 Reissue Certificate	1.3

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About This Guideline

The User Guideline document aims to provide comprehensive guidance on the process of purchasing LHDN e-Invoice digital certificates from MSC Trustgate. Whether you're a new user seeking to acquire your first digital certificate or an existing user who is looking to renew your digital certificate, this guide has you covered.

In this guideline, you'll find detailed instructions on:

1. **Understanding Digital Certificates**: Gain insights into what digital certificates are, their importance, and how they function in securing online transactions and communications.
2. **Types of Digital Certificates**: Understand the various types of digital certificates offered by MSC Trustgate, including their features, use cases, and suitability for different applications.
3. **Prerequisites for Purchasing**: Learn about the prerequisites and requirements you need to fulfill before initiating the digital certificate purchase process.
4. **Purchasing Process**: Step-by-step instructions on how to request and purchase digital certificates from MSC Trustgate, including generating key pairs, submitting Certificate Signing Requests (CSRs), and completing the payment process.
5. **Processing Time**: Understand the expected processing time for your certificate request, including verification and validation procedures, as per MSC Trustgate's Certificate Practice Statement.
6. **Integration and Configuration**: Guidance on integrating and configuring MSC Trustgate's API with your e-Invoice software or system to obtain the XAdES digital signature structure. This guidance is applicable if you choose to purchase a Roaming Certificate.
7. **Support and Resources**: Access additional resources, FAQs, and contact information for MSC Trustgate's support team to assist you throughout the certificate purchasing process. Please note that this guideline does not include instructions on constructing XAdES digital signature structures for your e-Invoice documents or the related e-Invoice submission process. For further details, kindly refer to the LHDN website.

This User Guide aims to empower you with the knowledge and tools necessary to navigate the digital certificate purchasing process effectively. Should you have any questions or require further assistance, please don't hesitate to reach out to our support team.

All certificate issuance process is accordance with MSC Trustgate Certificate Practice Statement.

Let's get started on securing your e-Invoice with MSC Trustgate's LHDN e-Invoice Organization digital certificates!

1 Understanding Digital Certificates

Digital certificates play a crucial role to secure online communication, providing authentication, encryption, integrity and trust. Here's an overview of what digital certificates are and how they function:

1.1 What Are Digital Certificates?

A digital certificate, also known as a public key certificate, is a digital document issued by a trusted and qualified entity, or a licensed Certification Authority (CA). It serves as a form of identification, providing assurance of the authenticity and integrity of electronic documents, websites, and online communications.

1.2 Components of a Digital Certificate

1. **Public Key**: The key pair generated for cryptographic operations. The public key is embedded in the certificate and is used for encryption, digital signatures, and authentication.
2. **Private Key**: The corresponding key known only to the certificate owner, used for decrypting encrypted data, creating digital signatures, and proving ownership of the public key.
3. **Certificate Holder Information**: Details about the certificate holder or organization, such as name, email address, and organizational affiliation.
4. **Issuer Information**: Information about the Certification Authority (CA) that issued the certificate, including its name, digital signature, and validity period.
5. **Digital Signature**: A cryptographic signature created by the CA to verify the authenticity and integrity of the certificate. It ensures that the certificate has not been tampered with since it was issued.

1.3 Functions of Digital Certificates

1. **Authentication**: Digital certificates verify the identity of individuals, organizations, or websites in online interactions. They assure users that they are communicating with legitimate entities and not imposters.
2. **Digital Signatures**: Certificates enable the creation of digital signatures, which provide proof of the origin, identity, and integrity of electronic documents, transactions, and communications. Digital signatures validate the authenticity of the signer and ensure non-repudiation.

3. **Data Encryption**: Digital certificates facilitate secure communication by enabling encryption of data exchanged between parties. They ensure that sensitive information remains confidential and cannot be intercepted or tampered with by unauthorized parties.
4. **Non-repudiation or Content Commitment**: Digital certificates enable non-repudiation by associating digital signatures with the identity of the signer. When a user signs a document or message with their private key, the corresponding digital certificate verifies their identity. This provides strong evidence that the signer cannot later deny their involvement or the authenticity of the signed content.

1.4 Trust and Hierarchy

Digital certificates operate within a hierarchical trust model, where trust is established through a chain of trust anchored by trusted root CAs. Intermediate CAs issue certificates on behalf of the root CA, and end-entity certificates are issued to individuals, organizations, or devices.

1.5 Conclusion

In summary, digital certificates are essential tools for securing online transactions, communications, and data exchange. They provide authentication, encryption, and digital signature capabilities, ensuring the confidentiality, integrity, and authenticity of electronic information in today's digital world.

2 Types of Digital Certificates

There are 2 types of certificates or services for one (1) unit of Organization Certificate:

Certificate/Service Type	Annual Unit Price (RM)	Remarks
Soft Certificate	1,500	• It is the organization or service provider's responsibility to securely manage its private key. • The organization or service provider is accountable for conducting digital signing in accordance with the XAdES standard for e-Invoices. • There is no integration with MSC Trustgate
Roaming Digital Certificate	15,000	• MSC Trustgate securely manages the organization's private key in a Hardware Security Module (HSM). • MSC Trustgate offers digital signature services adhering to the XAdES standard for e-Invoices, aiming to streamline processes and save resources for the organization or service provider. • Integration with MSC Trustgate is facilitated via REST API for digital signing services.

3 Pre-requisites for Purchasing Digital Certificate

3.1 Required Information

Before you apply for a digital certificate, please make sure if you have the following detail ready:

1. Applicant's government issued photo-ID such as MyKad for Malaysian or passport for non-Malaysian and the applicant's contact information (such as phone and address).
2. Letter of Authorization – a letter signed by Director(s) of the Company under the Company's Letterhead to authorize a person to apply digital certificate for your organization, including the information of your company. (https://www.msctrustgate.com/mytrustid/LOA).
3. Certificate Signing Request (CSR) file in PKCS#10 format (for purchasing Soft Certificate). Refer to Appendices A for instructions on generating a CSR.

3.2 Payment Method

Payment can be made via online portal (FPX or Credit Card) or bank transfer to:

Bank:	**CIMB Bank**
Account No:	**8003227066**
Account Name:	**MSC Trustgate.com Sdn Bhd**

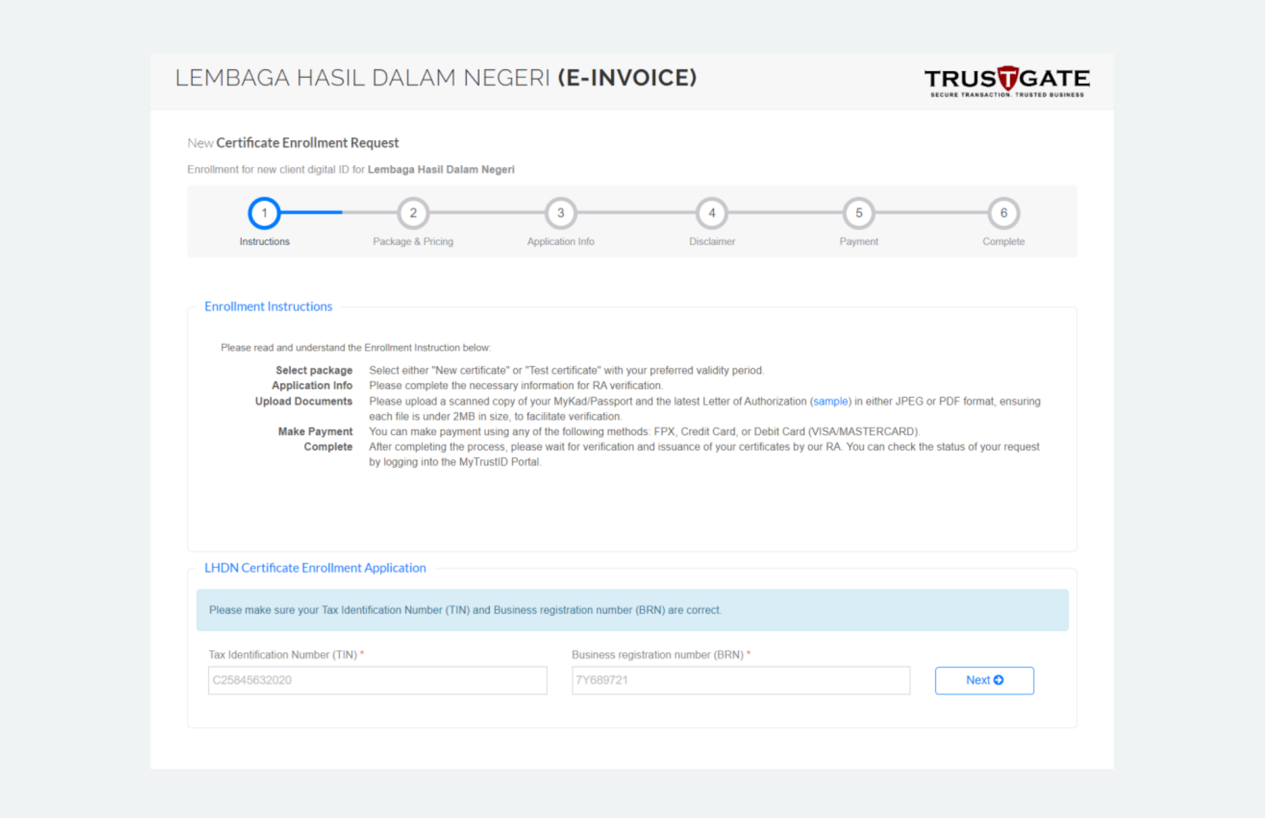
4 Purchasing Certificate

To expedite the certificate request process, we recommend purchasing the LHDN e-Invoice Organization Certificate through our online portal.

4.1 Online Portal

4.1.1 Instructions Page

1. **Open Online Portal**. Click on the following link to start the registration process: **https://www.msctrustgate.com/mytrustid/enrollment?q=lhdn**
2. **Read Enrollment Instructions**. Before proceeding, read and understand the Enrollment Instructions provided.
3. **Letter of Authorization**. If you are unsure about the Letter of Authorization, click the [Sample] button to view a sample in the Enrollment Instructions section. Note that the Letter of Authorization must be uploaded in the Application Info page.
4. **Enter Organization Identification**. To proceed with the LHDN Certificate Enrollment Application, enter your organization's Tax Identification Number (TIN) and Business Registration Number (BRN) in the respective fields.
5. **Verify Information**. Make sure the TIN and BRN numbers are CORRECT.
6. **Proceed to Next Step**. Click the 'Next' button to continue.



LEMBAGA HASIL DALAM NEGERI **(E-INVOICE)**

New **Certificate Enrollment Request**

Enrollment for new client digital ID for **Lembaga Hasil Dalam Negeri**

Enrollment Instructions

Please read and understand the Enrollment Instruction below:

Select package	Select either "New certificate" or "Test certificate" with your preferred validity period.
Application Info	Please complete the necessary information for RA verification.
Upload Documents	Please upload a scanned copy of your MyKad/Passport and the latest Letter of Authorization (sample) in either JPEG or PDF format, ensuring each file is under 2MB in size, to facilitate verification.
Make Payment	You can make payment using any of the following methods: FPX, Credit Card, or Debit Card (VISA/MASTERCARD).
Complete	After completing the process, please wait for verification and issuance of your certificates by our RA. You can check the status of your request by logging into the MyTrustID Portal.

LHDN Certificate Enrollment Application

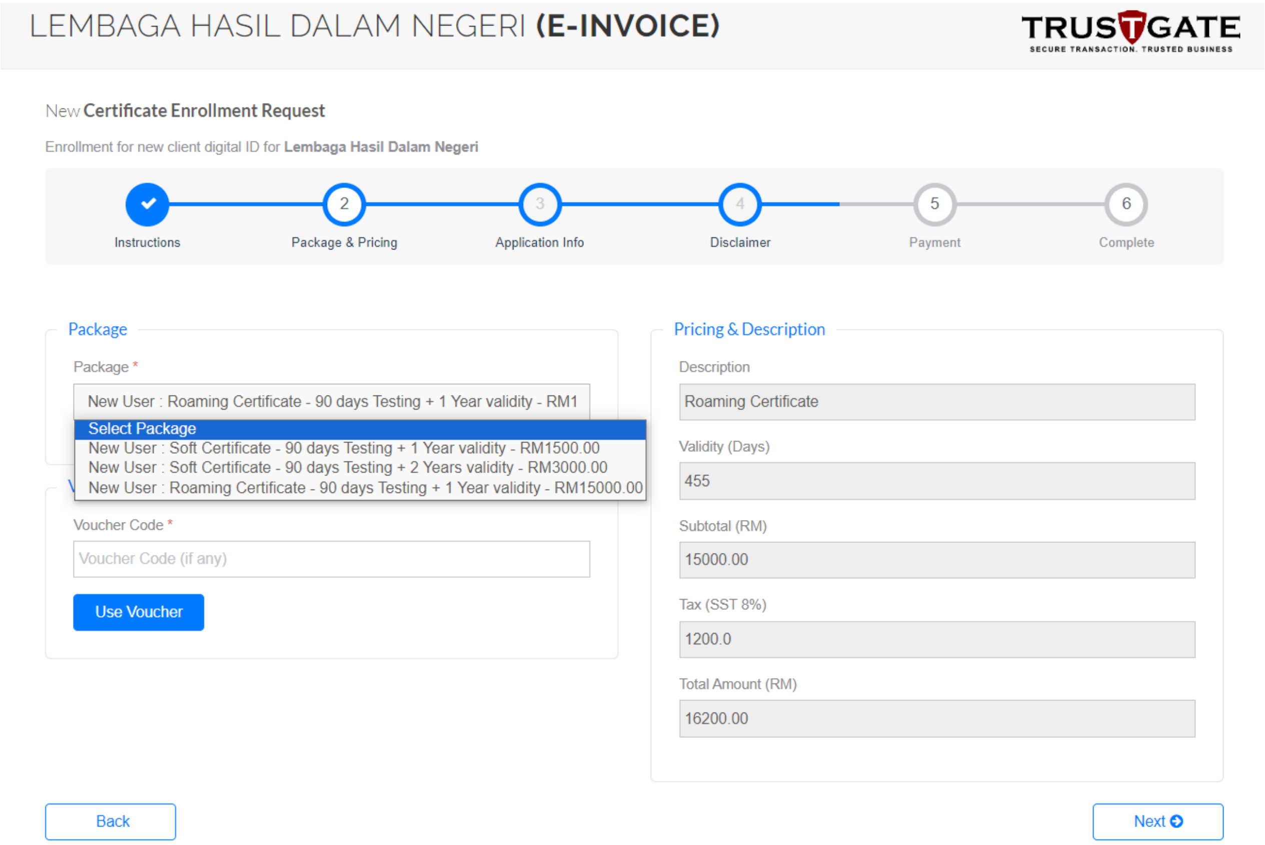
Please make sure your Tax Identification Number (TIN) and Business registration number (BRN) are correct.

Tax Identification Number (TIN) * C25845632020

Business registration number (BRN) * 7Y689721

4.1.2 Package & Pricing Page

1. In the Package & Pricing page, you need to fill in two sections.
2. The first section is for selecting the Package that you want to purchase.
3. This section provided three types of packages which is Soft Certificate (1 year validity), Soft Certificate (2 years validity) and Roaming Certificate (1 year validity). You can choose one of the listed packages.
4. The second section is Pricing & Description, which is automatically filled based on the chosen package.
5. Next, click the 'Next' button to proceed.
6. Alternatively, you can click the 'Back' button to return to the previous page.



LEMBAGA HASIL DALAM NEGERI **(E-INVOICE)**

New **Certificate Enrollment Request**

Enrollment for new client digital ID for **Lembaga Hasil Dalam Negeri**

Package

Package *: New User : Roaming Certificate - 90 days Testing + 1 Year validity - RM1

Select Package
New User : Soft Certificate - 90 days Testing + 1 Year validity - RM1500.00
New User : Soft Certificate - 90 days Testing + 2 Years validity - RM3000.00
New User : Roaming Certificate - 90 days Testing + 1 Year validity - RM15000.00

Voucher Code *: Voucher Code (if any)

Pricing & Description

Description: Roaming Certificate

Validity (Days): 455

Subtotal (RM): 15000.00

Tax (SST 8%): 1200.0

Total Amount (RM): 16200.00

Type of Package

4.1.3 Application Info Page

1. There are four sections that you are required to fill in:

   a. Applicant Information
   b. Company Information
   c. Personnel Information
   d. Supporting Documents

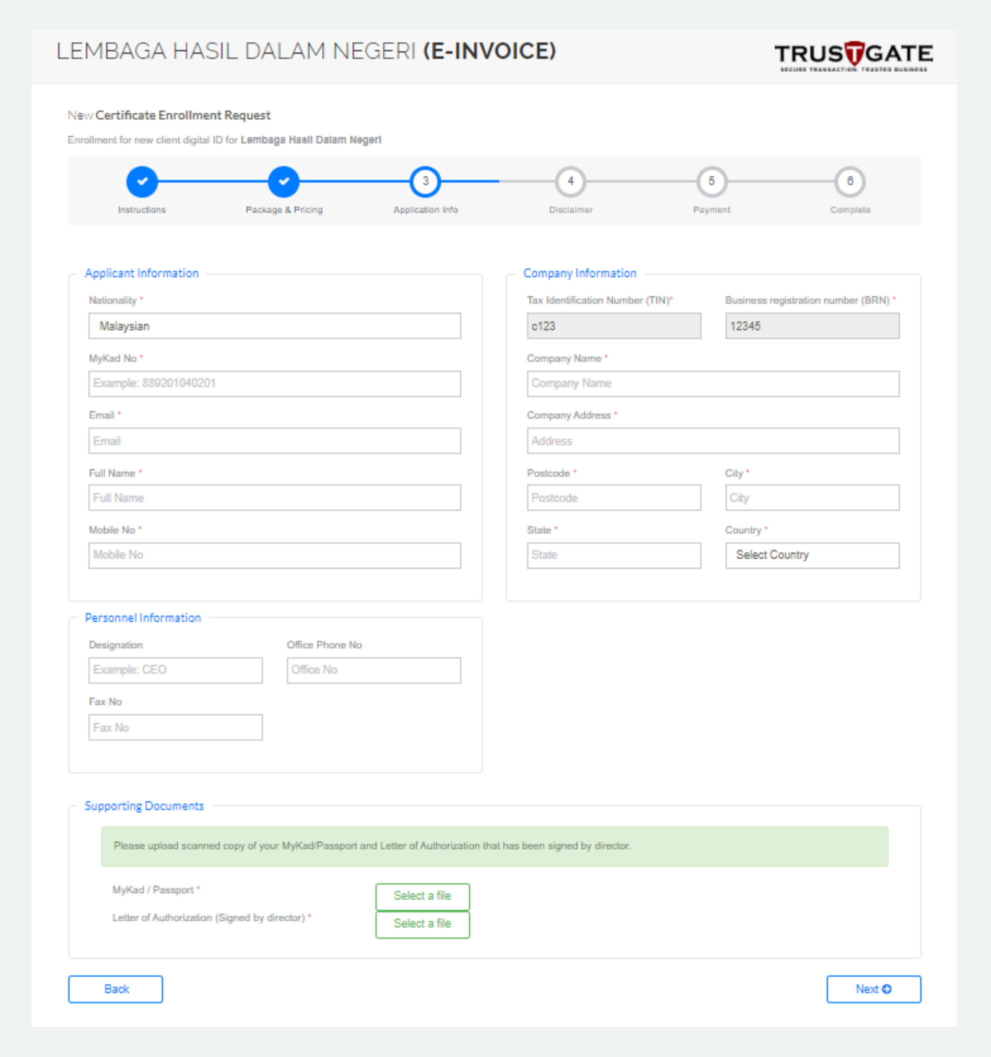
   Additionally, there is an CSR Information section if you choose to purchase a Soft Certificate.

2. Under the Application Information section, you need to provide the following information:
   - Nationality
   - MyKad No (Malaysian Identification Card Number)
   - Email
   - Full Name
   - Mobile No

3. Under the Company Information section, you need to provide the following information:
   - Organization ID
   - Registration No
   - Company Name
   - Company Address
   - Postcode
   - City
   - State
   - Country (select from drop-down menu)

4. In the Personnel Information section, you need to provide the following information:
   - Designation
   - Office Phone No
   - Fax No

5. In the Supporting Documents section, you are required to upload:
   - Image of your MyKad/Passport
   - Company's Letter of Authorization signed by your company's director or owner indicating that you are authorized to request the digital certificate on behalf of the company.



LEMBAGA HASIL DALAM NEGERI **(E-INVOICE)**

New **Certificate Enrollment Request**

Enrollment for new client digital ID for **Lembaga Hasil Dalam Negeri**

Applicant Information

Nationality *: Malaysian

MyKad No *: Example: 889201040201

Email *: Email

Full Name *: Full Name

Mobile No *: Mobile No

Company Information

Tax Identification Number (TIN)*: c123

Business registration number (BRN) *: 12345

Company Name *: Company Name

Company Address *: Address

Postcode *: Postcode

City *: City

State *: State

Country *: Select Country

Personnel Information

Designation: Example: CEO

Office Phone No: Office No

Fax No: Fax No

Supporting Documents

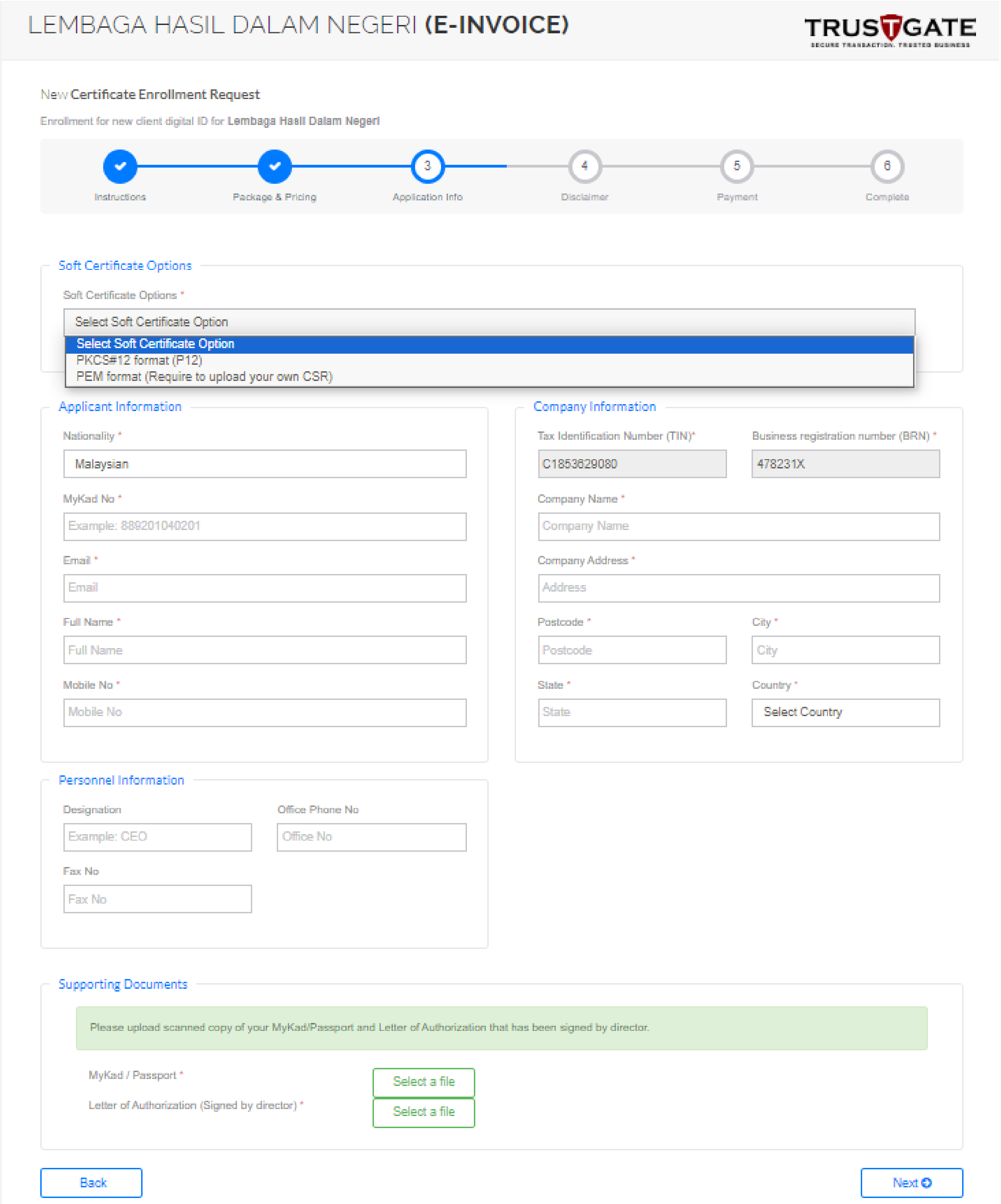
Please upload scanned copy of your MyKad/Passport and Letter of Authorization that has been signed by director.

MyKad / Passport *: Select a file

Letter of Authorization (Signed by director) *: Select a file

New Certificate (Roaming Certificate)

6. If you are purchasing a Soft Certificate, an additional section called Soft Certificate Options will appear. You can choose from two options:
   i. PKCS#12 format (P12) – Create a CSR directly through the portal by filling out the required fields in the CSR Information section.



LEMBAGA HASIL DALAM NEGERI **(E-INVOICE)**

New Certificate Enrollment Request

Enrollment for new client digital ID for **Lembaga Hasil Dalam Negeri**

Soft Certificate Options

Soft Certificate Options *: Select Soft Certificate Option

Select Soft Certificate Option
PKCS#12 format (P12)
PEM format (Require to upload your own CSR)

Applicant Information

Nationality *: Malaysian

MyKad No *: Example: 889201040201

Email *: Email

Full Name *: Full Name

Mobile No *: Mobile No

Company Information

Tax Identification Number (TIN)*: C1853629080

Business registration number (BRN) *: 478231X

Company Name *: Company Name

Company Address *: Address

Postcode *: Postcode

City *: City

State *: State

Country *: Select Country

Personnel Information

Designation: Example: CEO

Office Phone No: Office No

Fax No: Fax No

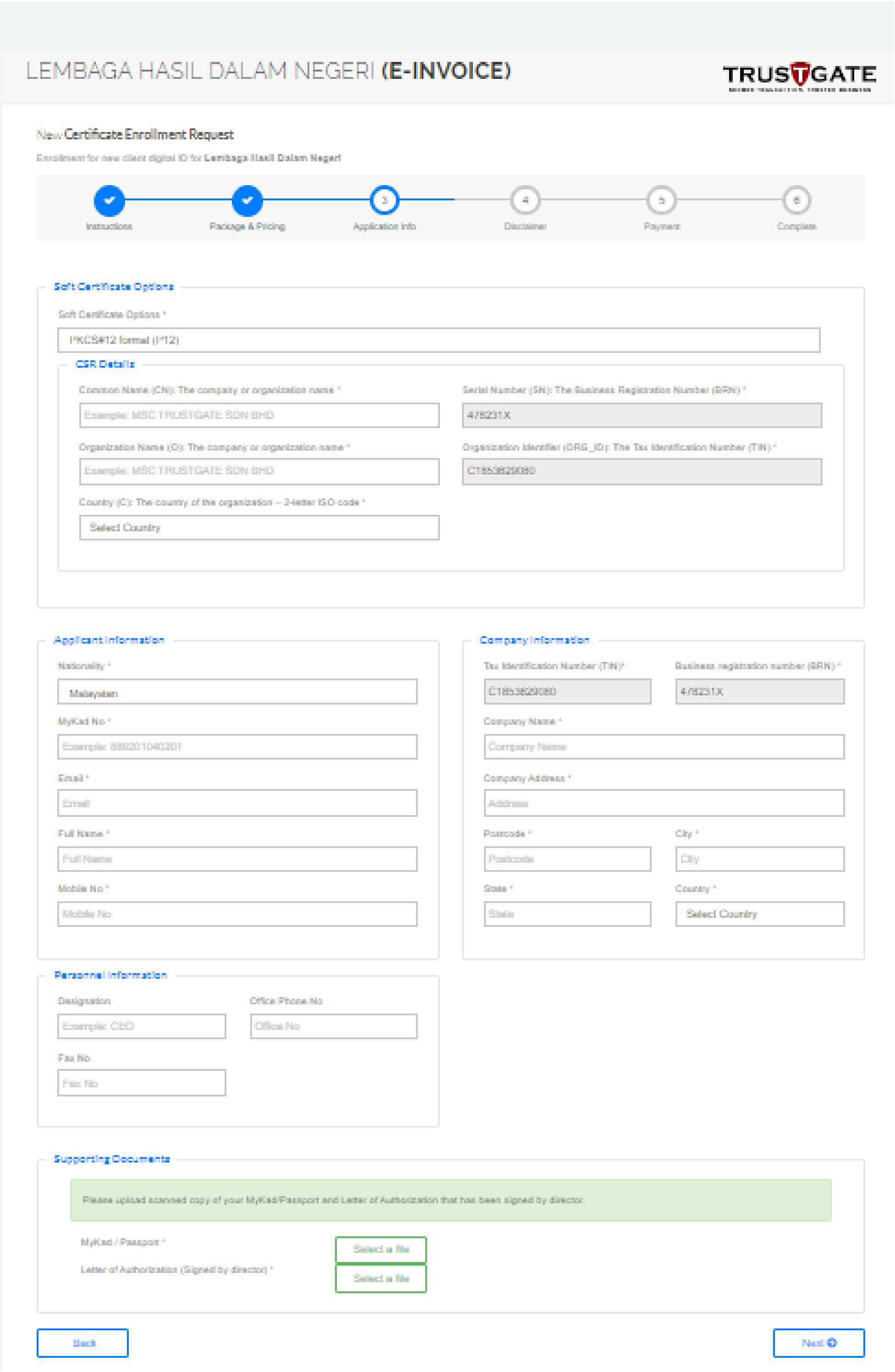
Supporting Documents

Please upload scanned copy of your MyKad/Passport and Letter of Authorization that has been signed by director.

MyKad / Passport *: Select a file

Letter of Authorization (Signed by director) *: Select a file

New Certificate (Soft Certificate)



LEMBAGA HASIL DALAM NEGERI **(E-INVOICE)**

New Certificate Enrollment Request

Enrollment for new client digital ID for **Lembaga Hasil Dalam Negeri**

Soft Certificate Options

Soft Certificate Options *: PKCS#12 format (P12)

CSR Details

Common Name (CN): The company or organization name *: Example: MSC TRUSTGATE SDN BHD

Serial Number (SN): The Business Registration Number (BRN) *: 478231X

Organization Name (O): The company or organization name *: Example: MSC TRUSTGATE SDN BHD

Organization Identifier (ORG_ID): The Tax Identification Number (TIN) *: C18538029080

Country (C): The country of the organization – 2-letter ISO code *: Select Country

Applicant Information

Nationality *: Malaysian

MyKad No *: Example: 889201040201

Email *: Email

Full Name *: Full Name

Mobile No *: Mobile No

Company Information

Tax Identification Number (TIN)*: C18538029080

Business registration number (BRN) *: 478231X

Company Name *: Company Name

Company Address *: Address

Postcode *: Postcode

City *: City

State *: State

Country *: Select Country

Personnel Information

Designation: Example: CEO

Office Phone No: Office No

Fax No: Fax No

Supporting Documents

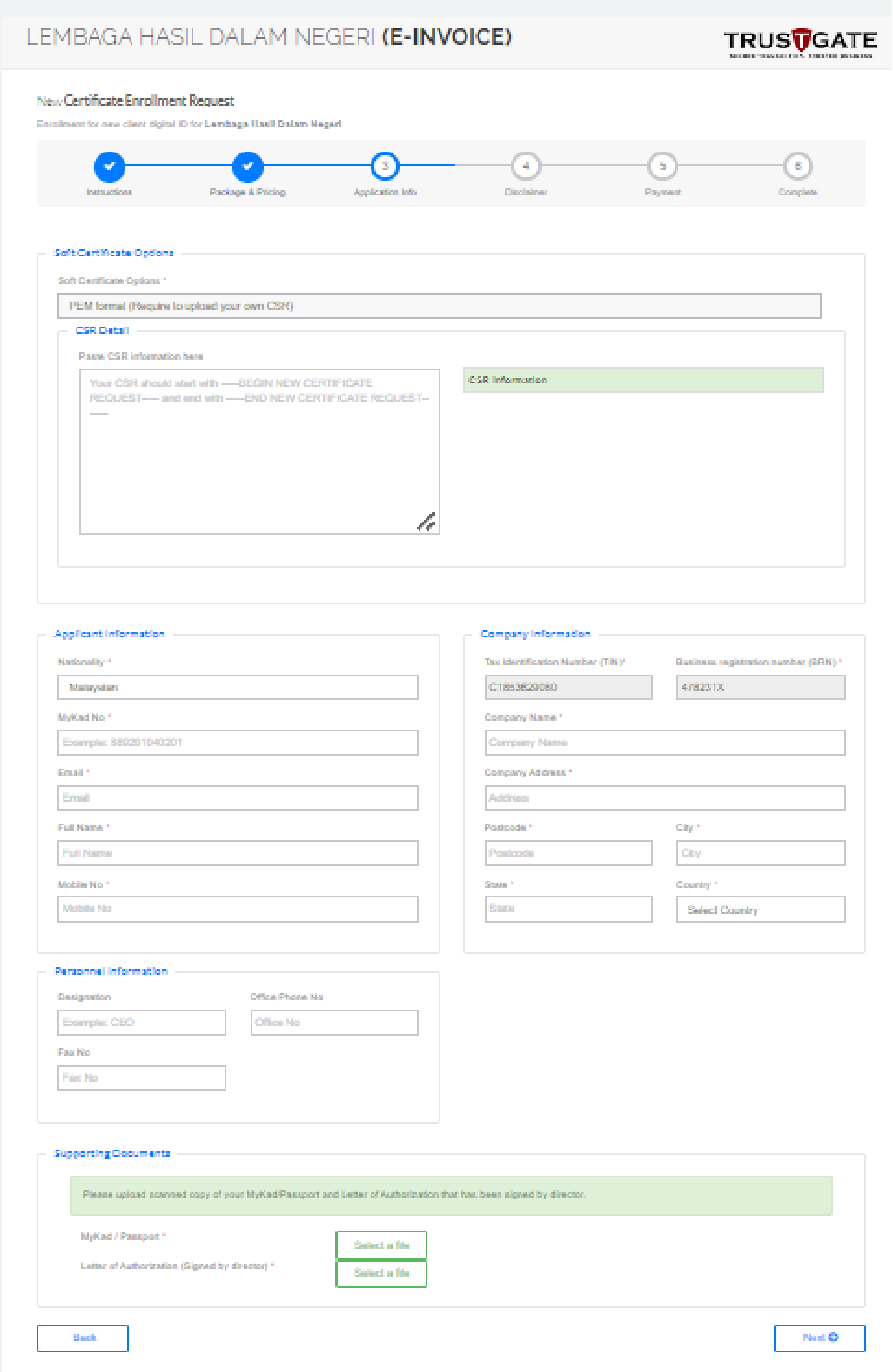
Please upload scanned copy of your MyKad/Passport and Letter of Authorization that has been signed by director.

MyKad / Passport *: Select a file

Letter of Authorization (Signed by director) *: Select a file

New Certificate (Soft Certificate) (PKCS#12 format)

ii. PEM format (Require to upload your own CSR) – Generate a CSR on your local machine and upload it by pasting the CSR information into the CSR Detail section.



New Certificate Enrollment Request

Enrollment for new client digital ID for **Lembaga Hasil Dalam Negeri**

Soft Certificate Options

Soft Certificate Options *: PEM format (Require to upload your own CSR)

CSR Detail

Paste CSR information here

Your CSR should start with -----BEGIN NEW CERTIFICATE REQUEST----- and end with -----END NEW CERTIFICATE REQUEST-----

CSR Information

Applicant Information

Nationality *: Malaysian

MyKad No *: Example: 889201040201

Email *: Email

Full Name *: Full Name

Mobile No *: Mobile No

Company Information

Tax Identification Number (TIN)*: C18536290080

Business registration number (BRN) *: 478231X

Company Name *: Company Name

Company Address *: Address

Postcode *: Postcode

City *: City

State *: State

Country *: Select Country

Personnel Information

Designation: Example: CEO

Office Phone No: Office No

Fax No: Fax No

Supporting Documents

Please upload scanned copy of your MyKad/Passport and Letter of Authorization that has been signed by director.

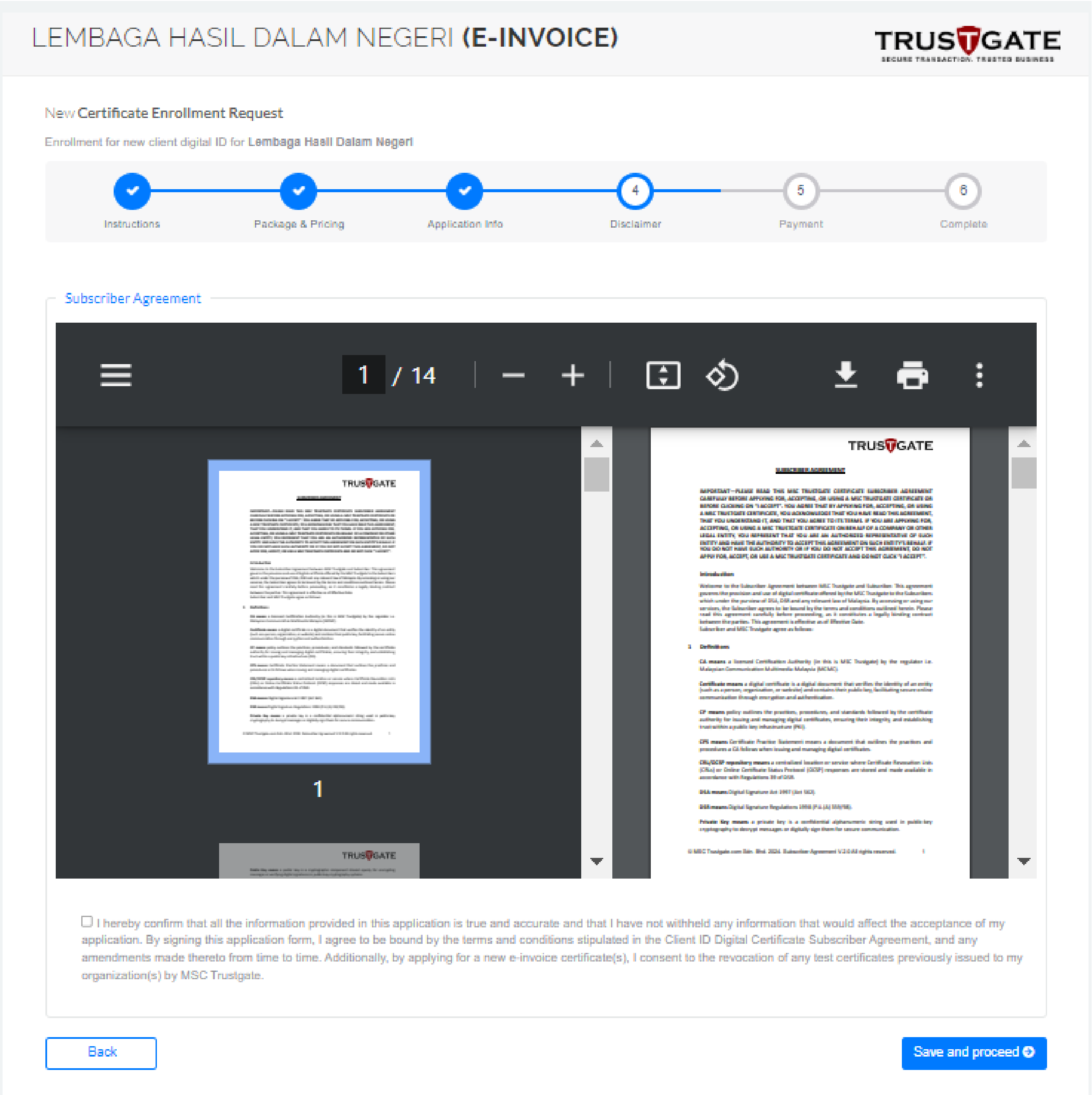
MyKad / Passport *

Letter of Authorization (Signed by director) *

New Certificate (Soft Certificate) (PEM format)

4.1.4 Disclaimer Page

1. On the Disclaimer page, you can read the Subscriber Agreement.
2. After reading the agreement, tick the box provided to agree and confirm that all the information provided is true and accurate, and that you agree with the Subscriber Agreement.
3. To proceed, click ‘Save and proceed’ button.



LEMBAGA HASIL DALAM NEGERI **(E-INVOICE)**

New Certificate Enrollment Request

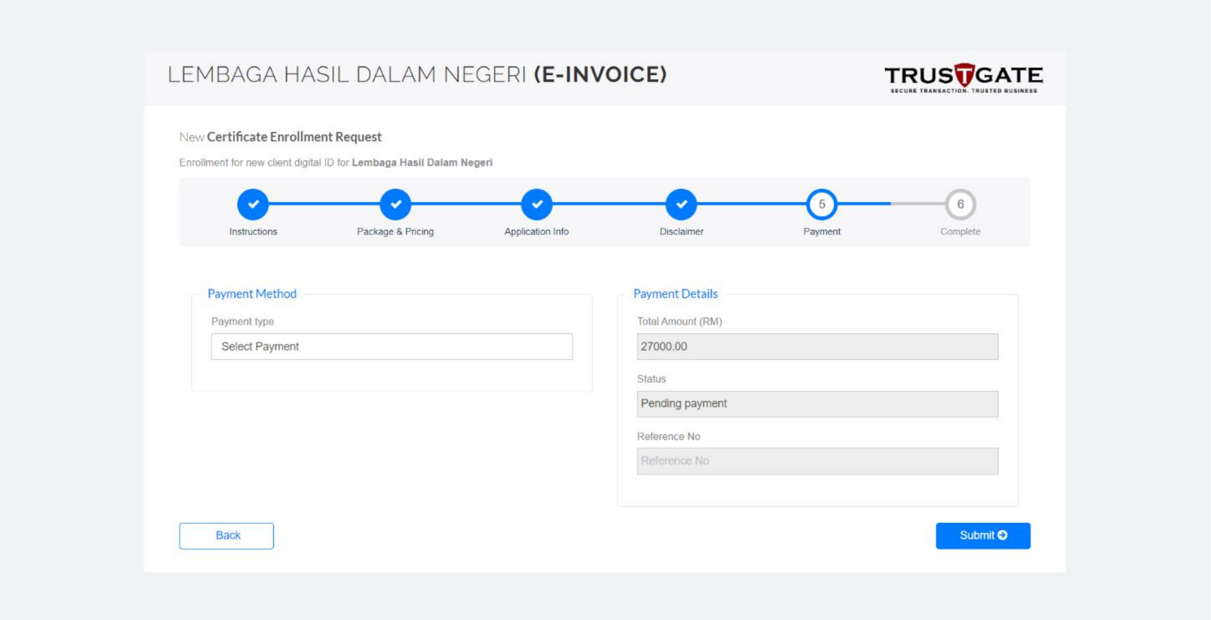
Enrollment for new client digital ID for Lembaga Hasil Dalam Negeri

□ I hereby confirm that all the information provided in this application is true and accurate and that I have not withheld any information that would affect the acceptance of my application. By signing this application form, I agree to be bound by the terms and conditions stipulated in the Client ID Digital Certificate Subscriber Agreement, and any amendments made thereto from time to time. Additionally, by applying for a new e-invoice certificate(s), I consent to the revocation of any test certificates previously issued to my organization(s) by MSC Trustgate.

Subscriber Agreement

4.1.5 Payment Page

1. There are three payment options listed under the Payment Method section:
   - FPX – Click the ‘Pay Now’ button, and the page will redirect to Merchant’s Portal
   - Credit/ Debit Card – Click the ‘Pay Now’ button, then the page will redirect to Internet Payment Gateway. This page requires user to enter credit card details to proceed.
   - Others (Bank Transfer) – Click the ‘Upload Proof of Payment’ button to upload the payment receipt (For the amount exceeding RM10,000).
2. You can confirm the amount you need to pay under the Payment Details section.
3. Click the ‘Submit’ button to make payment.



LEMBAGA HASIL DALAM NEGERI **(E-INVOICE)**

New **Certificate Enrollment Request**

Enrollment for new client digital ID for **Lembaga Hasil Dalam Negeri**

Payment Method

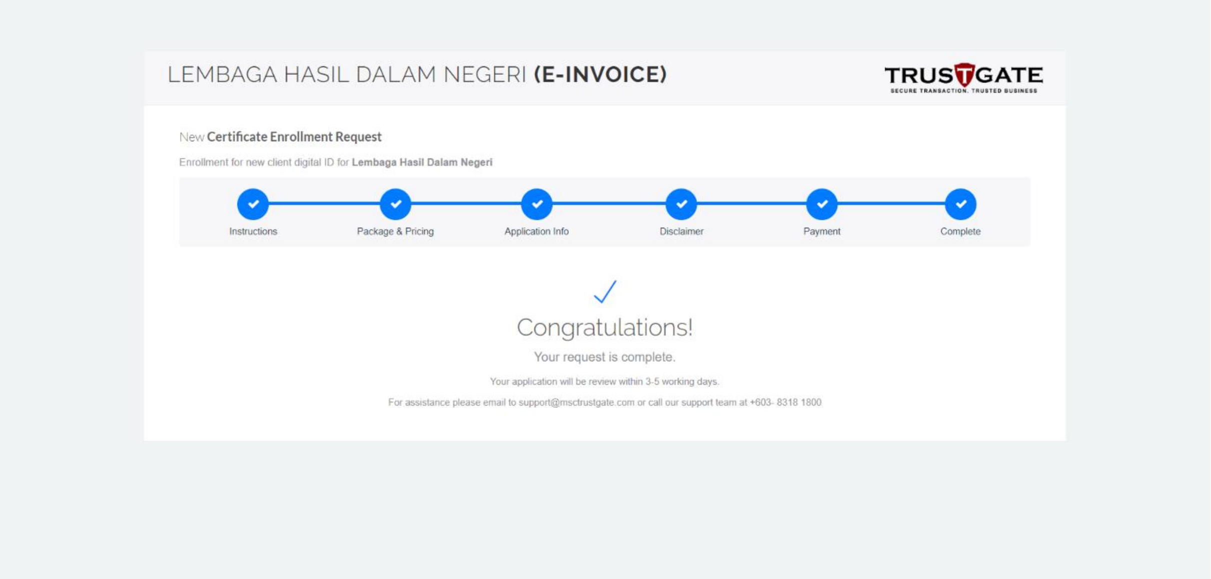
Payment type: Select Payment

Payment Details

Total Amount (RM): 27000.00

Status: Pending payment

Reference No: Reference No



LEMBAGA HASIL DALAM NEGERI **(E-INVOICE)**

New **Certificate Enrollment Request**

Enrollment for new client digital ID for **Lembaga Hasil Dalam Negeri**

Congratulations!

Your request is complete.

Your application will be review within 3-5 working days.

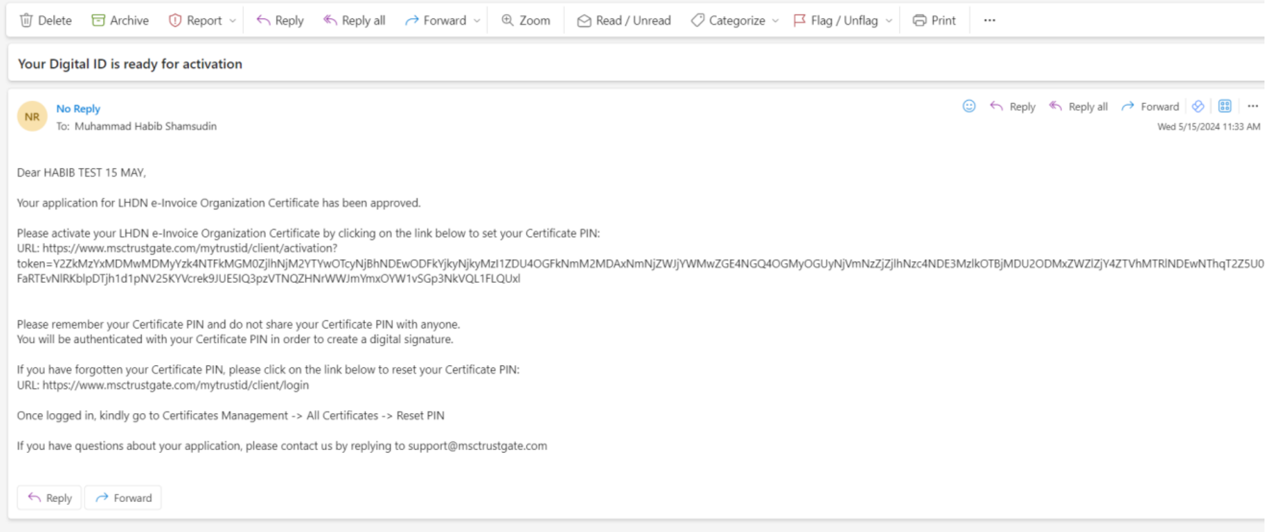
For assistance please email to support@msctrustgate.com or call our support team at +603- 8318 1800

4.2 Activation

MSC Trustgate takes up to 5 working days to process your application.

4.2.1 Roaming Certificate

1. After your request has been verified and validated, MSC Trustgate will email you to indicate that your request for the LHDN e-Invoice Organization Certificate has been approved and is ready to activate. This notification will be sent to the email address you provided during the registration process.
2. You should set your Certificate PIN using the link provided via email.



Your Digital ID is ready for activation

No Reply
To: Muhammad Habib Shamsudin

Wed 5/15/2024 11:33 AM

Dear HABIB TEST 15 MAY,

Your application for LHDN e-Invoice Organization Certificate has been approved.

Please activate your LHDN e-Invoice Organization Certificate by clicking on the link below to set your Certificate PIN:
URL: https://www.msctrustgate.com/mytrustid/client/activation?
token=Y2ZkMzYxMDMwMDMyYzk4NTFkMGM0ZjlhNjM2YTYwOTcyNjBhNDEwODFkYjkyNjkyMzI1ZDU4OGFkNmM2MDAxNmNjZWJjYWMwZGE4NGQ4OGMyOGUyNjVmNzZjZjlhNzc4NDE3MzlkOTBjMDU2ODMxZWZlZjY4ZTVhMTRlNDEwNThqT2Z5U0
FaRTEvNlRKblpDTjh1d1pNV25KYVcrek9JUE5IQ3pzVTNQZHNrWWJmYmxOYW1vSGp3NkVQL1FLQUxl

Please remember your Certificate PIN and do not share your Certificate PIN with anyone.
You will be authenticated with your Certificate PIN in order to create a digital signature.

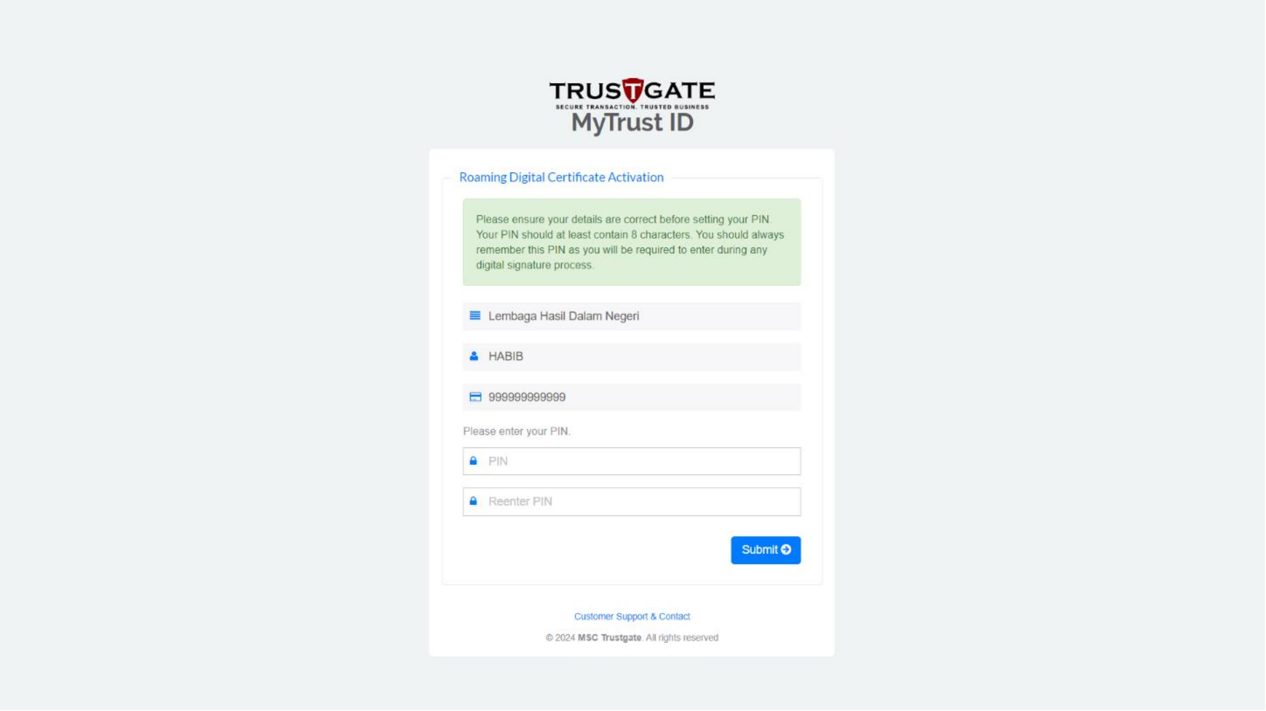
If you have forgotten your Certificate PIN, please click on the link below to reset your Certificate PIN:
URL: https://www.msctrustgate.com/mytrustid/client/login

Once logged in, kindly go to Certificates Management -> All Certificates -> Reset PIN

If you have questions about your application, please contact us by replying to support@msctrustgate.com

Email received by user

3. Enter your new PIN and reenter it for confirmation, then click the ‘Submit’ button to proceed.
4. Once you have completed the set Certificate PIN process, your certificate will be successfully activated and ready to use for submitting e-Invoices.



Roaming Digital Certificate Activation

Please ensure your details are correct before setting your PIN. Your PIN should at least contain 8 characters. You should always remember this PIN as you will be required to enter during any digital signature process.

Lembaga Hasil Dalam Negeri

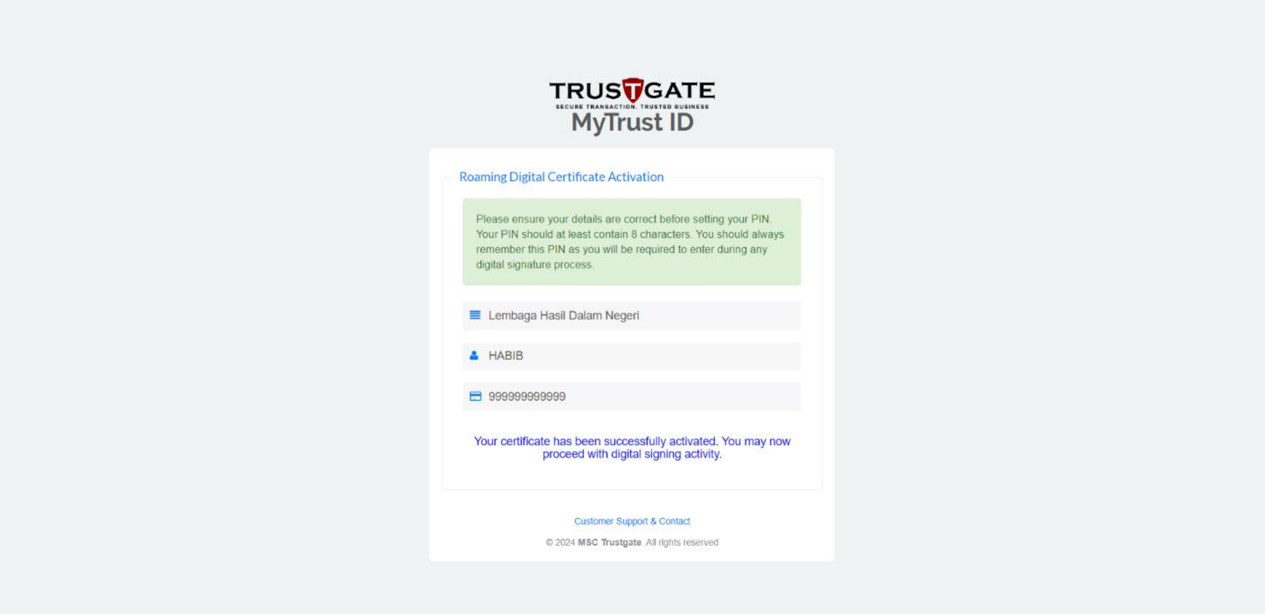
HABIB

999999999999

Please enter your PIN.

TRUSTGATE
SECURE TRANSACTION. TRUSTED BUSINESS
MyTrust ID
PIN
Reenter PIN
Submit
Customer Support & Contact
© 2024 MSC Trustgate. All rights reserved

Set Certificate PIN process



Roaming Digital Certificate Activation

Please ensure your details are correct before setting your PIN. Your PIN should at least contain 8 characters. You should always remember this PIN as you will be required to enter during any digital signature process.

Lembaga Hasil Dalam Negeri

HABIB

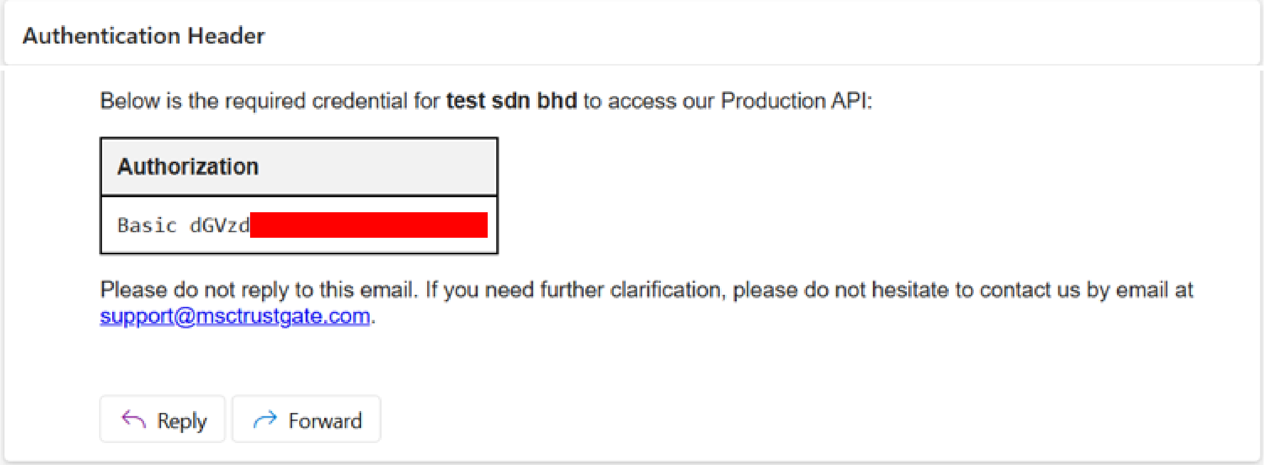
999999999999

Your certificate has been successfully activated. You may now proceed with digital signing activity.

TRUSTGATE
SECURE TRANSACTION. TRUSTED BUSINESS
MyTrust ID
Customer Support & Contact
© 2024 MSC Trustgate. All rights reserved

Certificate successfully activated

5. At the same time, you will receive an email with API Authentication token/ key for integration purpose.
6. If you haven't received the API Authentication token/ key yet, feel free to reach out via email to support@msctrustgate.com for assistance.



Authentication Header

Below is the required credential for **test sdn bhd** to access our Production API:

Authorization
`Basic dGVzd`[redacted]

Please do not reply to this email. If you need further clarification, please do not hesitate to contact us by email at support@msctrustgate.com.

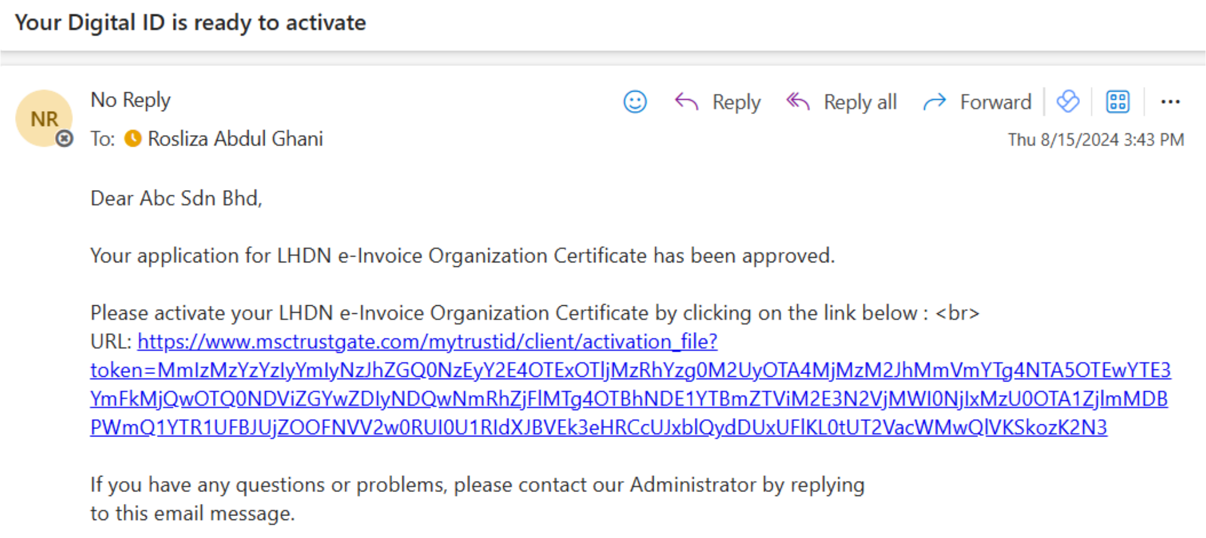
Email received by user with API authentication token/ key

4.2.2 Soft Certificate

After your request has been verified, validated, and approved, MSC Trustgate will email to you [1] based on the Soft Certificate options you selected during purchasing in Step 6 in Section 4.1.3.

i. If you choose PKCS#12 format (P12) option:

1. MSC Trustgate will email you to indicate that your request for the LHDN e-Invoice Organization Certificate has been approved and is ready to activate.
2. You should set your PIN to download a P12 file using the link provided via email.



Your Digital ID is ready to activate

No Reply
To: Rosliza Abdul Ghani
Thu 8/15/2024 3:43 PM

Dear Abc Sdn Bhd,

Your application for LHDN e-Invoice Organization Certificate has been approved.

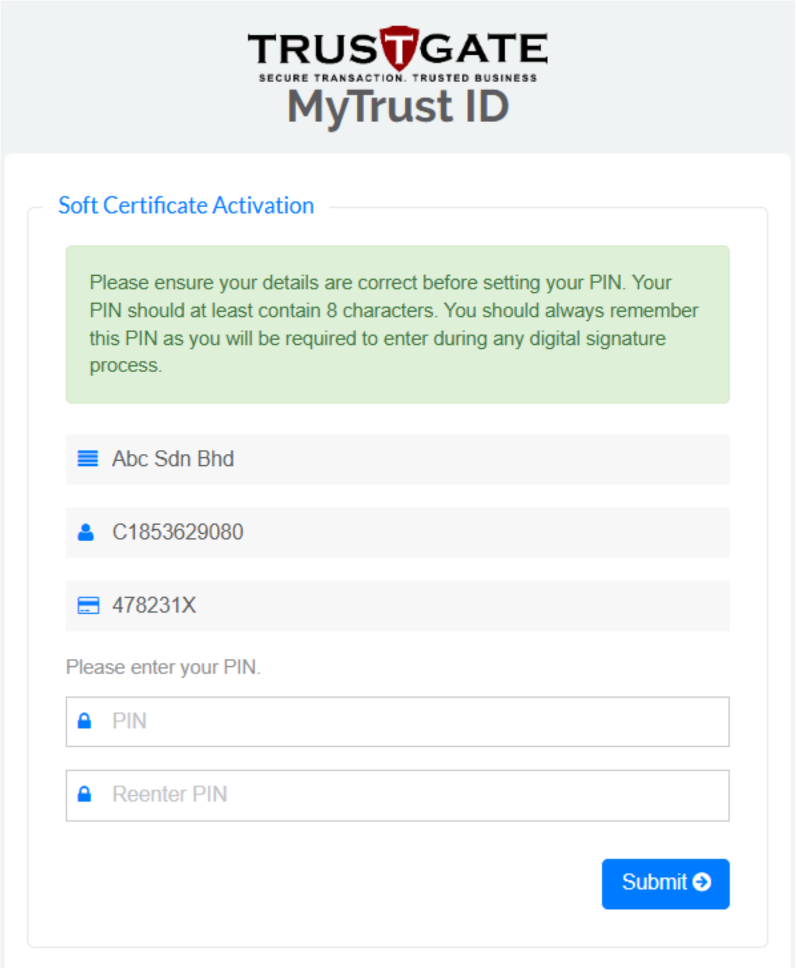
Please activate your LHDN e-Invoice Organization Certificate by clicking on the link below :
URL: https://www.msctrustgate.com/mytrustid/client/activation_file?token=MmIzMzYzYzIyYmIyNzJhZGQ0NzEyY2E4OTExOTljMzRhYzg0M2UyOTA4MjMzM2JhMmVmYTg4NTA5OTEwYTE3YmFkMjQwOTQ0NDViZGYwZDIyNDQwNmRhZjFlMTg4OTBhNDE1YTBmZTViM2E3N2VjMWI0NjIxMzU0OTA1ZjlmMDBPWmQ1YTR1UFBJUjZOOFNVV2w0RUI0U1RldXJBVEk3eHRCcUJxblQydDUxUFlKL0tUT2VacWMwQlVKSkozK2N3

If you have any questions or problems, please contact our Administrator by replying to this email message.

Email received by user

[1] This notification will be sent to the email address you provided during the registration process.

3. Enter your new PIN and reenter it for confirmation, then click the ‘Submit’ button to proceed.



TRUSTGATE
SECURE TRANSACTION. TRUSTED BUSINESS
MyTrust ID

Soft Certificate Activation

Please ensure your details are correct before setting your PIN. Your PIN should at least contain 8 characters. You should always remember this PIN as you will be required to enter during any digital signature process.

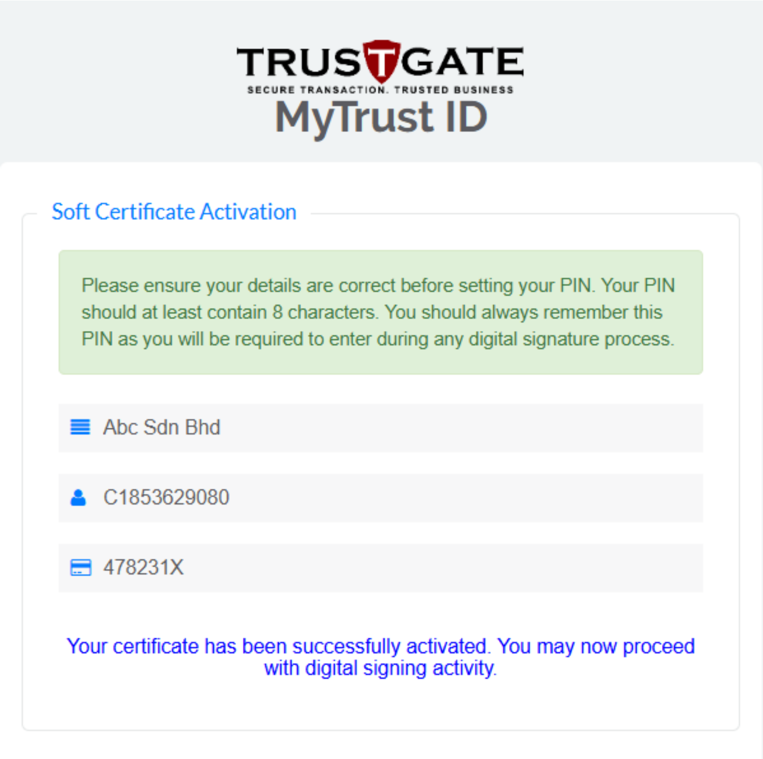
Abc Sdn Bhd

C1853629080

478231X

Please enter your PIN.

Set PIN process



Soft Certificate Activation

Please ensure your details are correct before setting your PIN. Your PIN should at least contain 8 characters. You should always remember this PIN as you will be required to enter during any digital signature process.

Abc Sdn Bhd

C1853629080

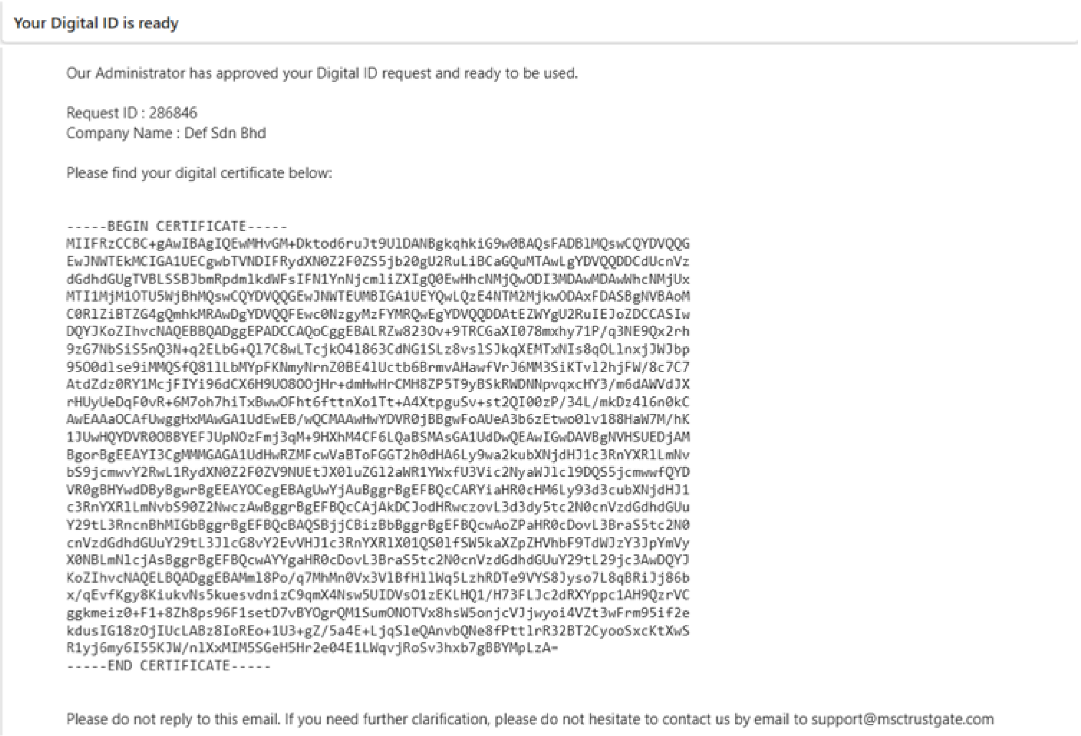
478231X

Your certificate has been successfully activated. You may now proceed with digital signing activity.

Soft Certificate Successfully Activated

4. Once you have completed set PIN process, your P12 file will auto download.
5. Please check your **Download** folder to view the file.
6. You can save and use the P12 file for eInvoice purpose.

ii. If you choose PEM format option (which requires uploading your own CSR), you will receive your certificate via email. You are then required to install or store the certificate according to the requirements of your software or system for e-Invoice.



Your Digital ID is ready

Our Administrator has approved your Digital ID request and ready to be used.

Request ID : 286846
Company Name : Def Sdn Bhd

Please find your digital certificate below:

```
-----BEGIN CERTIFICATE-----
MIIFRzCCBC+gAwIBAgIQEwMHvGM+Dktod6ruJt9U1DANBgkqhkiG9w0BAQsFADBlMQswCQYDVQQG
EwJNWTEkMCIGA1UECgwbTVNDIFRydXN0Z2F0ZS5jb20gU2RuLiBCaGQuMTAwLgYDVQQDDCdUcnVz
dGdhdGUgTVBLSSBJbmRpdmlkdWFsIFN1YnNjcmliZXIgQ0EwHhcNMjQwODI3MDAwMDAwWhcNMjUx
MTI1MjM1OTU5WjBhMQswCQYDVQQGEwJNWTEUMBIGA1UEYQwLQzE4NTM2MjkwODAxFDASBgNVBAoM
C0R1ZiBTZG4gQmhkMRAwDgYDVQQFEwc0NzgyMzFYMRQwEgYDVQQDDAtEZWYgU2RuIEJoZDCCASIw
DQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBALRZw823Ov+9TRCGaXI078mxhy71P/q3NE9Qx2rh
9zG7NbSiS5nQ3N+q2ELbG+Ql7C8wLTcjkO41863CdNG1SLz8vslSJkqXEMTxNIs8qOLlnxjJWJbp
95O0dlse9iMMQSfQ81lLbMYpFKNmyNrnZ0BE41Uctb6BrmvAHawfVrJ6MM3SiKTvl2hjFW/8c7C7
AtdZdz0RY1McjFIYi96dCX6H9UO8OOjHr+dmHwHrCMH8ZP5T9yBSkRWDNNpvqxcHY3/m6dAWVdJX
rHUyUeDqF0vR+6M7oh7hiTxBwwOFht6fttnXo1Tt+A4XtpguSv+st2QI00zP/34L/mkDz416n0kC
AwEAAaOCAfUwggHxMAwGA1UdEwEB/wQCMAAwHwYDVR0jBBgwFoAUeA3b6zEtwo0lv188HaW7M/hK
1JUwHQYDVR0OBBYEFJUpNOzFmj3qM+9HXhM4CF6LQaBSMAsGA1UdDwQEAwIGwDAVBgNVHSUEDjAM
BgorBgEEAYI3CgMMMGAGA1UdHwRZMFcwVaBToFGGT2h0dHA6Ly9wa2kubXNjdHJ1c3RnYXR1LmNv
bS9jcmwvY2RwL1RydXN0Z2F0ZV9NUEtJX01uZG12aWR1YWxfU3Vic2NyaWJlcl9DQS5jcmwwfQYD
VR0gBHYwdDByBgwrBgEEAYOCegEBAgUwYjAuBggrBgEFBQcCARYiaHR0cHM6Ly93d3cubXNjdHJ1
c3RnYXR1LmNvbS90Z2NwczAwBggrBgEFBQcCAjAkDCJodHRwczovL3d3dy5tc2N0cnVzdGdhdGUu
Y29tL3RncnBhMIGbBggrBgEFBQcBAQSBjjCBizBbBggrBgEFBQcwAoZPaHR0cDovL3BraS5tc2N0
cnVzdGdhdGUuY29tL3J1cG8vY2EvVHJ1c3RnYXR1X01QS01fSW5kaXZpZHVhbF9TdWJzY3JpYmVy
X0NBLmN1cjAsBggrBgEFBQcwAYYgaHR0cDovL3BraS5tc2N0cnVzdGdhdGUuY29tL29jc3AwDQYJ
KoZIhvcNAQELBQADggEBAMml8Po/q7MhMn0Vx3V1BfH1lWq5LzhRDTe9VYS8Jyso7L8qBRiJj86b
x/qEvfKgy8KiukvNs5kuesvdnizC9qmX4Nsw5UIDVsO1zEKLHQ1/H73FLJc2dRXYppc1AH9QzrVC
ggkmeiz0+F1+8Zh8ps96F1setD7vBYOgrQM1SumONOTVx8hsW5onjcVJjwyoi4VZt3wFrm95if2e
kdusIG18zOjIUcLABz8IoREo+1U3+gZ/5a4E+LjqSleQAnvbQNe8fPttlrR32BT2CyooSxcKtXwS
R1yj6my6I55KJW/nlXxMIM5SGeH5Hr2e04E1LWqvjRoSv3hxb7gBBYMpLzA=
-----END CERTIFICATE-----
```

Please do not reply to this email. If you need further clarification, please do not hesitate to contact us by email to support@msctrustgate.com

Digital Certificate received by the user via email

5 Processing Time

All Certificate Requests will be processed up to 5 working days, inclusive of verification and validation procedures, in accordance with MSC Trustgate Certificate Practice Statement. The duration of the process may also be influenced by the completeness of information provided, as outlined in the pre-requisite section.

6 Integration and Configuration

6.1.1 Roaming Certificate

If you purchase a Roaming Certificate, MSC Trustgate will create, manage, and store your private key in a Hardware Security Module (HSM) to ensure a high level of security for your key. MSC Trustgate will also assist you in creating the digital signature in accordance with the XAdES standard as outlined by LHDN.

You only need to prepare your e-Invoice document in XML or JSON format and pass it to MSC Trustgate through an API. The API will return a signed e-Invoice using your LHDN e-Invoice Organization Certificate, ready to be submitted to LHDN.

For more detailed information, please refer to the eInvoice_TGAPI_RoamingCertificate document.

6.1.2 Soft Certificate

There is no integration if you purchase the Soft Certificate. You are responsible for creating, managing, and storing your private key, as well as creating the digital signature in the XAdES standard as outlined by LHDN.

6.1.3 Certificate Authority and Revocation Information

6.1.3.1 Root Certificate Authority (Root CA)

The Root CA is the top-most authority in the hierarchy of digital certificates. It's crucial as it forms the trust anchor for all certificates issued beneath it.

You may download the Root CA certificate here:
https://www.msctrustgate.com/cacerts/Trustgate_MPKI_RCA.cer

or copy the following text:

```
-----BEGIN CERTIFICATE-----
MIIEdTCCAt2gAwIBAgIRAJp+0x06bXlZ/ThA7DowhaAwDQYJKoZIhvcNAQEMBQAw
VDELMAkGA1UEBhMCTVkxJDAiBgNVBAoMG01TQyBUcnVzdGdhdGUuY29tIFNkbi4g
QmhkLjEfMB0GA1UEAwwWVHJ1c3RnYXRlIE1QS0kgUm9vdCBDQTAeFw0yMjA0MDYw
MDAwMDBaFw00NzA0MDQyMzU5MDBaMFQxCzAJBgNVBAYTAk1ZMSQwIgYDVQQKDBtN
U0MgVHJ1c3RnYXRlLmNvbSBTZG4uIEJoZC4xHzAdBgNVBAMMFlRydXN0Z2F0ZSBN
UEtJIFJvb3QgQ0EwggGiMA0GCSqGSIb3DQEBAQUAA4IBjwAwggGKAoIBgQDGKv/G
Y0UiBRUghsTHuUfGzDVwlJuMqO9bcspES00411YA7U7ZDbSVVfAYADtUkjXjX5Jt
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X9qsqSr7c9Ii3aW0mVE/AxpDKoD7fTFEeUAFqL2jkLeeuemCTskxQQbbqQ2ZW/bv
rBX0wxVGbo/Is8LOrESUo6RAkHM9PeUGrSj7gtfFNhWgnbkCJ137pQQNRmLflQdX
NOGKuYVFwLeeDf+GFb9uhHQYneGusaehyAKN6vz2nztpCcA18M/DZBo1zSiMyeyC
N61hOcniU5l6soA9RbIR8W3uOg5KkIyP1h81nayke1Qym02Ty1FxmQ9RFaLCXY5i
L6Rm81sxlpq7liUaLFKSra/VsU/gX9ZCvmDX0Y6AJJ/3V1vTDG2nDtHsMc2wCQ6d
AoaeXtIJyUYnORC3TMzb9ED8opxpiGsTJdn4T/4cK6ZHUwiumoUGMyw0RrcCAwEA
AaNCMEAwDwYDVR0TAQH/BAUwAwEB/zAdBgNVHQ4EFgQUeyOa9NQoUEHGqSVQoc2r
ryE6fzgwDgYDVR0PAQH/BAQDAgEGMA0GCSqGSIb3DQEBDAUAA4IBgQCQF2KMdQmW
CKKmuihO0EGfNrBVP+vQOjMOg98UtgEXnuOS40jfdj+dCiBP7ayMqQYKBuj0aYFr
Gb4IsyXIKBaDMJBkqKo3QLUjsDV6BBOEeplqN0DeAouLSq/rc62gH1Ive1wpQCPE
WxBqO5baSiew6p2sErkbwJWqz/XiFm2j/CjNbhJAfI9zDLIEUP5k2pRw+lBSRgPX
/k4hQBK1+3SGxEqL3PJgp5LFaWugSzJCcVXr6KQXnlbtQLM65Tz8SnzpUmnfQEgN
Fp1RJ4YT79ijdtRWUuZD2rMxgW4DwWDbAboA8W2jRM580ltMoc0kYAc7zF80Q+Z8
jqfKV5an5+GdDwtslyrBk0o0oXBoXQQdLEhdqtGxKBC7PfwkMVh7/4Idk68cQIzL
LGlK/t/tON8yZJsGBEDyWanRRs+kPTxzFSw4bY7jupVwuJ7Q46J65y/CR9pOkJLq
KmCgat4f/e22h3ub8py+u5Yvm2Oq2z1YBs+chYcJmbWyoT+lxtjG82o=
-----END CERTIFICATE-----
```

6.1.3.2 Intermediate Certificate Authority (Intermediate CA)

The Intermediate CA issues certificates to end entities or another intermediate CAs. It helps in creating a chain of trust from the Root CA to the end-user certificate.

You may download the Intermediate CA certificate here:
https://www.msctrustgate.com/cacerts/Trustgate_MPKI_IS_CA.cer

or copy the following text:

```
-----BEGIN CERTIFICATE-----
MIIFZDCCA8ygAwIBAgIRAIAg32snP1g2np7ZEez+0O4wDQYJKoZIhvcNAQEMBQAw
VDELMAkGA1UEBhMCTVkxJDAiBgNVBAoMG01TQyBUcnVzdGdhdGUuY29tIFNkbi4g
QmhkLjEfMB0GA1UEAwwWVHJ1c3RnYXRlIE1QS0kgUm9vdCBDQTAeFw0yMjA0MDcw
MDAwMDBaFw0zNzA0MDUyMzU5MDBaMGUxCzAJBgNVBAYTAk1ZMSQwIgYDVQQKDBtN
U0MgVHJ1c3RnYXRlLmNvbSBTZG4uIEJoZC4xMDAuBgNVBAMMJ1RydXN0Z2F0ZSBN
UEtJIEluZGl2aWR1YWwgU3Vic2NyaWJlciBDQTCCASIwDQYJKoZIhvcNAQEBBQAD
ggEPADCCAQoCggEBANta849lVimDL6pQfbB1K2wYnAePYXIXtA0Bp0ZEzv7BIJaD
7skW7habTKvfnjl1wkyxEPf6KTY1Y86TRBdKyyqv1atMNRMAeq5OSPLk52bRkWCm
GKlDRodEANztvy575AJz3vubJP/WRhEKCVCr4IYb072X8mluAtZTU7DYR0XPMzat
RZELbHij82YGB9fUjWdwM5K5pfDP+Bl9THxFwJzswZlbHhmgT868cWPHLwMLD4jG
UssJh30SxMuCXArxdWG2wc5TLP46mCwAbRxI0yWMcnbaK6v/9ekrHkTBoBE5Ud+M
1RRRCaqbjMbqlc3SlQRLXpHEgQZ+ySdwpOPT69cCAwEAAaOCAZ4wggGaMBIGA1Ud
EwEB/wQIMAYBAf8CAQAwHwYDVR0jBBgwFoAUeyOa9NQoUEHGqSVQoc2rryE6fzgw
HQYDVR0OBBYEFHgN2+sxLcKNJb9fPB2luzP4StSVMA4GA1UdDwEB/wQEAwIBBjAT
BgNVHSUEDDAKBggrBgEFBQcDAjBIBgNVHR8EQTA/MD2gO6A5hjdodHRwczovL3Br
aS5tc2N0cnVzdGdhdGUuY29tL2NybC9jZHAvcmVwby90Z21wa2lyY2EuY3JsMHwG
A1UdIAR1MHMwcQYLKwYBBAGDgnoBAQIwYjAuBggrBgEFBQcCARYiaHR0cHM6Ly93
d3cubXNjdHJ1c3RnYXRlLmNvbS90Z2NwczAwBggrBgEFBQcCAjAkDCJodHRwczov
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BgEFBQcwAoY7aHR0cHM6Ly93d3cubXNjdHJ1c3RnYXRlLmNvbS9jYWNlcnRzL1Ry
dXN0Z2F0ZV9NUEtJX1JDQS5jZXIwDQYJKoZIhvcNAQEMBQADggGBAEYbYrOQVXIA
D+OegmIlpQpnyCrE6aH6ndNPgZw8wNgR8tVDgZt9q9q6AdIUdQzDHF2NqZG9T4oY
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XbAxpaLVczFrQoU7lUvE+Qo27lbP17XiR6lZdAGBTwJm9yQGQyUBAx2+A5aGYQ0+
7WlKV7uiCf2LYs8Mv6rf8TpPzzo+JyTmLpX4Y8MfGpZ2LzWcXu62ww==
-----END CERTIFICATE-----
```

6.1.3.3 Certificate Revocation List (CRL)

The CRL contains a list of certificates that have been revoked by the CA before their expiration date and should no longer be trusted. It’s important to configure systems to check the CRL to ensure revoked certificates are not used. The CRL is periodically updated by MSC Trustgate. Please configure your system to download the CRL at least once a day to ensure certificate revocation status is checked against the most recent list.

You may download the CRL here:
http://pki.msctrustgate.com/crl/cdp/Trustgate_MPKI_Individual_Subscriber_CA.crl

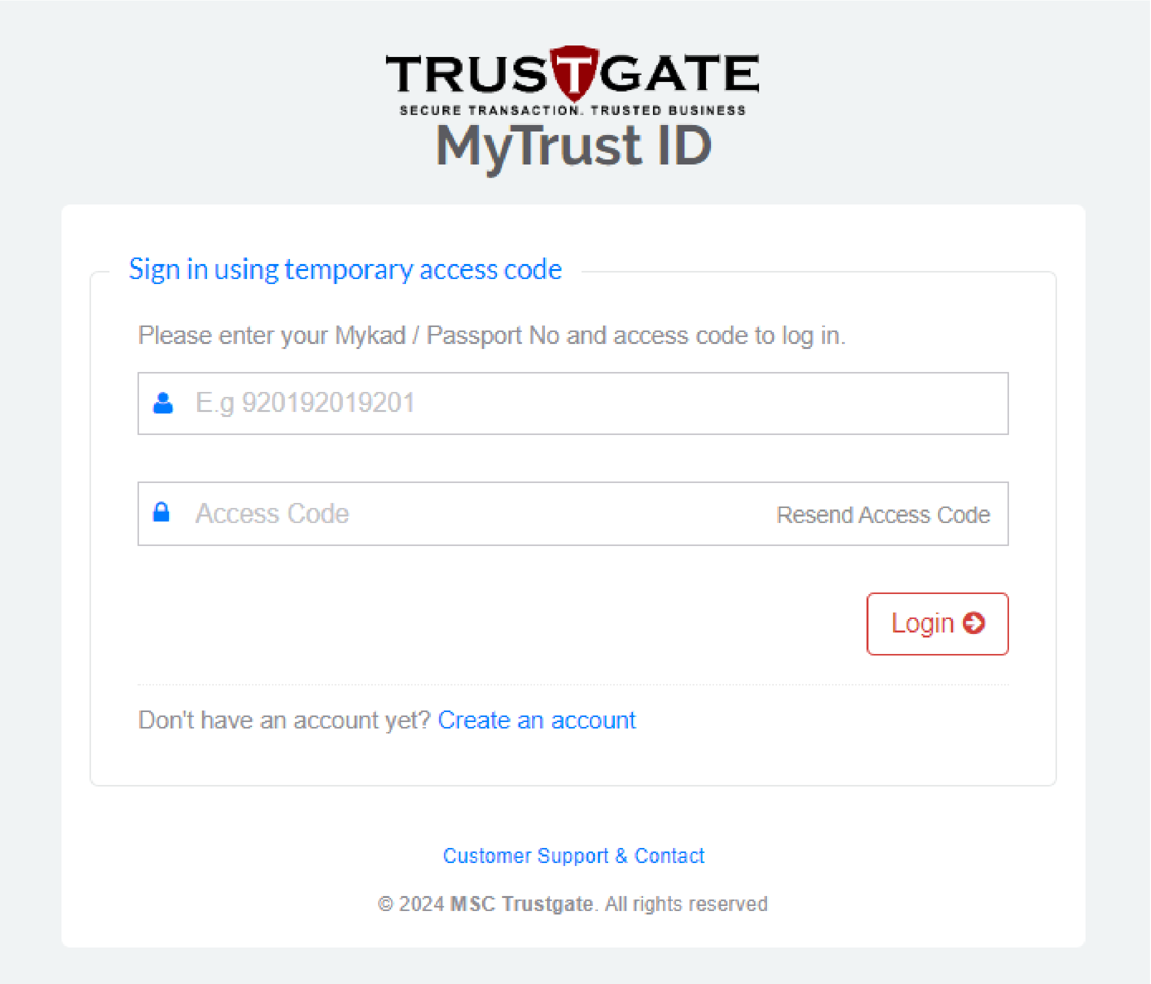
7 Update Info in MyTrustID portal

The MyTrustID portal is a self-service online platform for managing your certificates and certificate requests. Follow the steps below to update the Certificate Signing Request (CSR) and supporting documents.

Please note that this action can only be performed when the status is 'Submitted'.

7.1 Login portal

1. **Click Link:** Click on the link below to update the info in MyTrustID portal: https://www.msctrustgate.com/mytrustid/client/login
2. **Login portal:** Enter your Maykad/ Passport No and access code to login the portal.
3. **Forgot Access Code:** If you forgot the access code, you could click ‘Resend Access Code’ to request new access code.



Sign in using temporary access code

Please enter your Mykad / Passport No and access code to log in.

Don't have an account yet? Create an account

Customer Support & Contact

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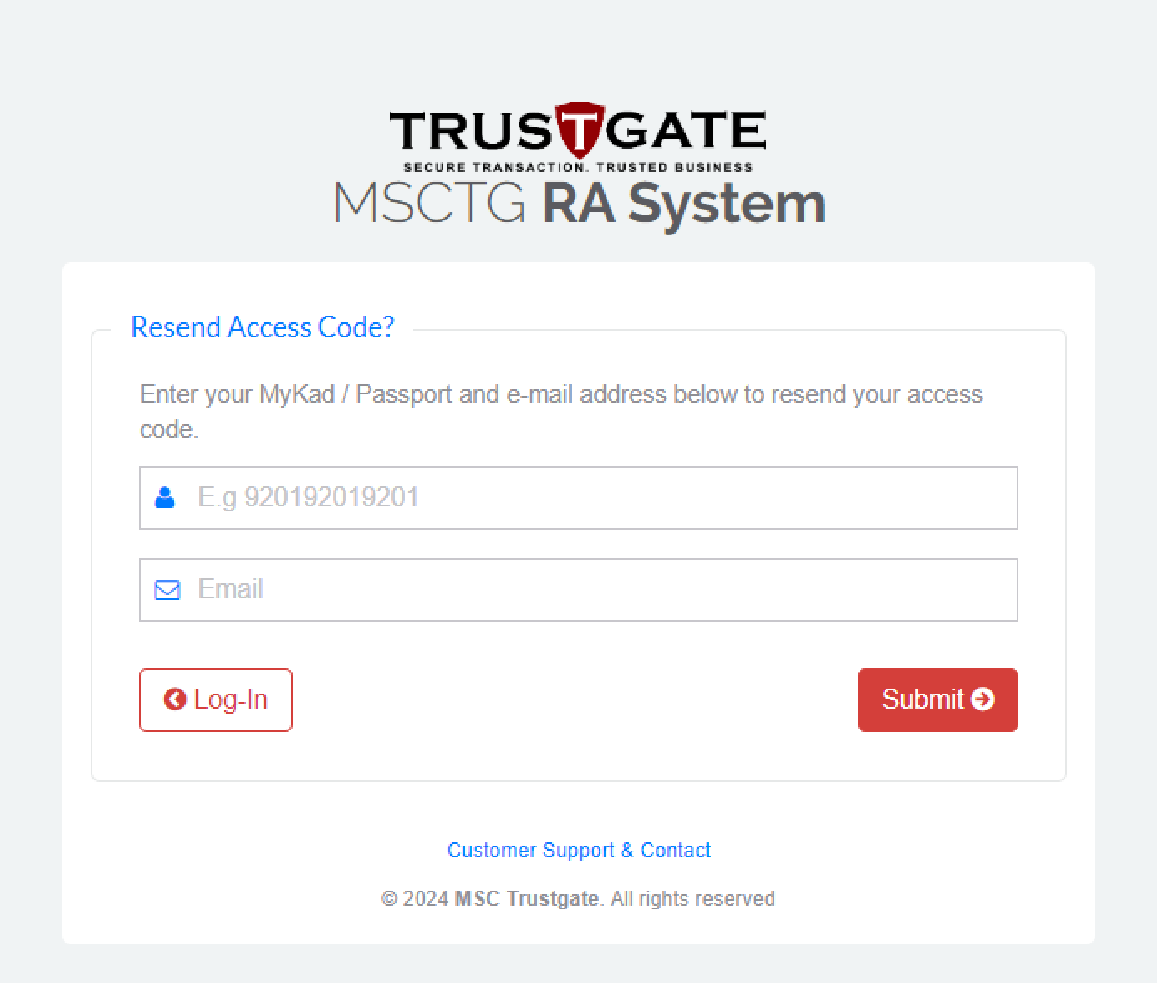
4. **Resend Access Code:** Enter Mykad/ Passport No and email address to receive new access code.



Enter your MyKad / Passport and e-mail address below to resend your access code.

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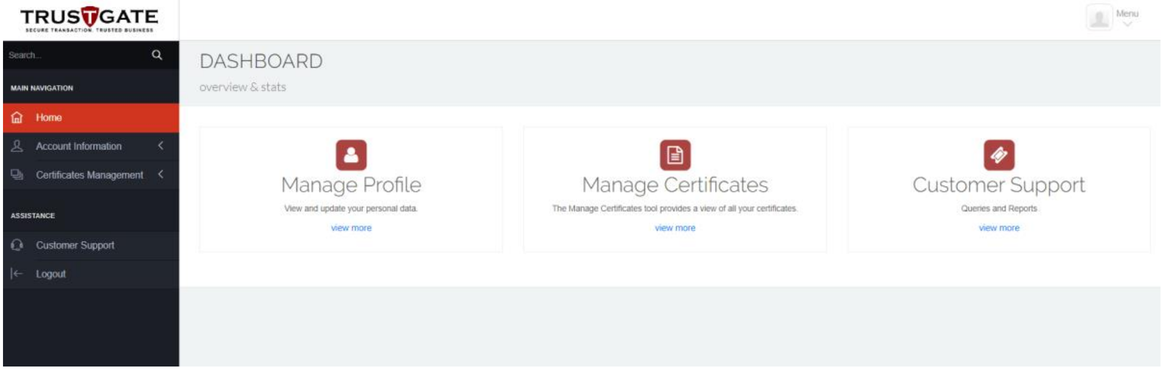
5. **View Dashboard:** After log in the portal, you will view the dashboard as in the picture below.

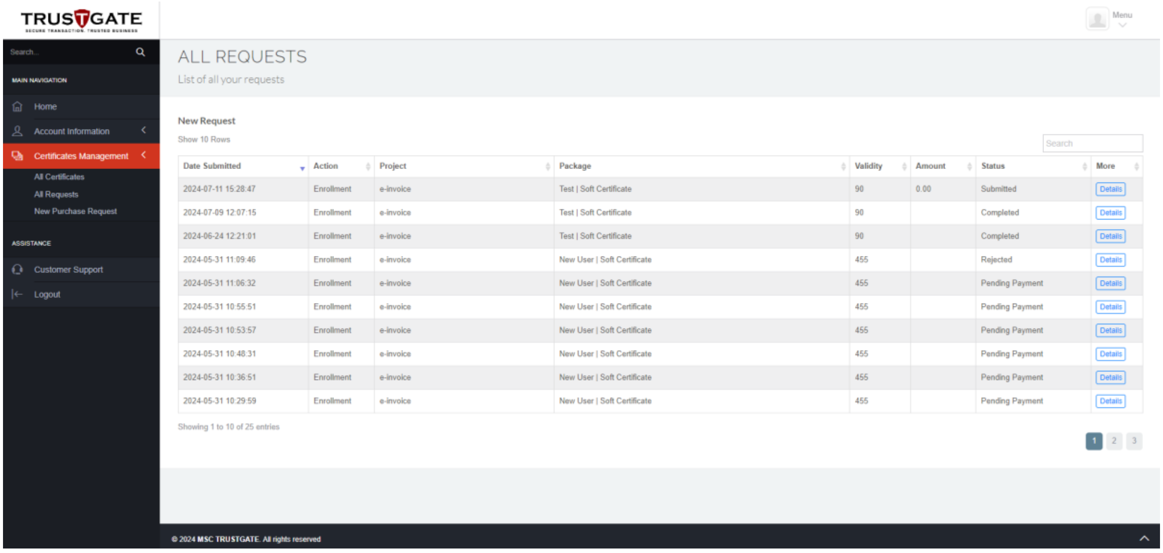


View and update your personal data.

The Manage Certificates tool provides a view of all your certificates.

7.2 Update CSR and the Supporting Documents

1. **Update Info:** To update the supporting document or CSR information, click the 'Certificate Management' section on the left side bar. Then, choose 'All Requests'.
2. **All Requests:** In the 'All Requests' section, locate the certificate request you want to update. Click the 'Details' button for the specific certificate request you wish to update.



ALL REQUESTS

List of all your requests

New Request

Show 10 Rows

Search

Date Submitted	Action	Project	Package	Validity	Amount	Status	More
2024-07-11 15:28:47	Enrollment	e-invoice	Test | Soft Certificate	90	0.00	Submitted	Details
2024-07-09 12:07:15	Enrollment	e-invoice	Test | Soft Certificate	90		Completed	Details
2024-06-24 12:21:01	Enrollment	e-invoice	Test | Soft Certificate	90		Completed	Details
2024-05-31 11:09:46	Enrollment	e-invoice	New User | Soft Certificate	455		Rejected	Details
2024-05-31 11:06:32	Enrollment	e-invoice	New User | Soft Certificate	455		Pending Payment	Details
2024-05-31 10:55:51	Enrollment	e-invoice	New User | Soft Certificate	455		Pending Payment	Details
2024-05-31 10:53:57	Enrollment	e-invoice	New User | Soft Certificate	455		Pending Payment	Details
2024-05-31 10:48:31	Enrollment	e-invoice	New User | Soft Certificate	455		Pending Payment	Details
2024-05-31 10:36:51	Enrollment	e-invoice	New User | Soft Certificate	455		Pending Payment	Details
2024-05-31 10:29:59	Enrollment	e-invoice	New User | Soft Certificate	455		Pending Payment	Details

Showing 1 to 10 of 25 entries

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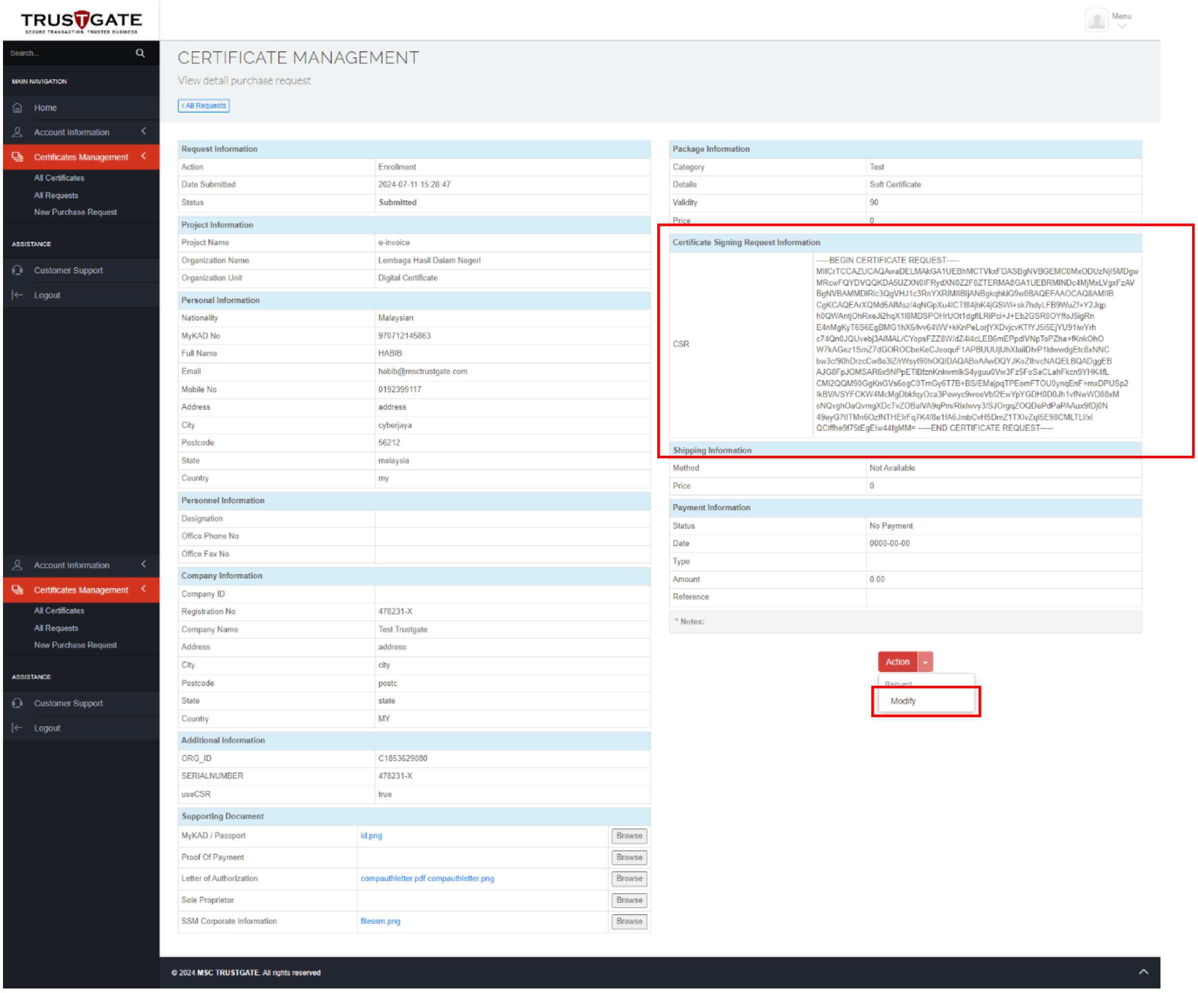
3. **Action:** Click 'Modify' button to update the CSR information.



CERTIFICATE MANAGEMENT

View detail purchase request

Request Information	
Action	Enrollment
Date Submitted	2024-07-11 15:28:47
Status	**Submitted**

Project Information	
Project Name	e-invoice
Organization Name	Lembaga Hasil Dalam Negeri
Organization Unit	Digital Certificate

Personal Information	
Nationality	Malaysian
MyKAD No	970712145863
Full Name	HABIB
Email	habib@msctrustgate.com
Mobile No	0192399117
Address	address
City	cyberjaya
Postcode	56212
State	malaysia
Country	my

Personnel Information	
Designation	
Office Phone No	
Office Fax No	

Company Information	
Company ID	
Registration No	478231-X
Company Name	Test Trustgate
Address	address
City	city
Postcode	postc
State	state
Country	MY

Additional Information	
ORG_ID	C1853629080
SERIALNUMBER	478231-X
useCSR	true

Supporting Document		
MyKAD / Passport	id.png	Browse
Proof Of Payment		Browse
Letter of Authorization	compauthletter.pdf compauthletter.png	Browse
Sole Proprietor		Browse
SSM Corporate Information	filessm.png	Browse

Package Information	
Category	Test
Details	Soft Certificate
Validity	90
Price	0

Certificate Signing Request Information	
CSR	-----BEGIN CERTIFICATE REQUEST----- MIICrTCCAZUCAQAwaDELMAkGA1UEBhMCTVkxFDASBgNVBGEMC0MxODUzNjI5MDgw MRcwFQYDVQQKDA5UZXN0IFRydXN0Z2F0ZTERMA8GA1UEBRMIND c4MjMxLVgxFzAV BgNVBAMMDlRlc3QgVHJ1c3RnYXRlMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIB CgKCAQEArXQMd5AfMsz/4qNGpXu4ICTf84jhK4jGSWi+sk7hdyLFB9WuZf+Y2Jqp h0QWAntjOhRxeJi2hqX1I8MDSPOHrUOt1dgflLRiPci+J+Eb2GSR0OYffoJ5igRn E4nMgKyT6S6EgBMG1hX6/lvv64WV+kKnPeLorjYXDvjcvKTfYJ5i5EjYU91iwYrh c74Qn0JQUvebj3AiMAL/CYopsFZZ8W/dZ4i4cLEB6mEPpdlVNpToPZha+fKnkOhO W7kAGez1SmZ7dGOROCbeKeCJooquF1APBUUUjfJhXlaiiDlvP1ldwwdgEtc8xNNC bw3c/90hDrzcCw8o3lZ/rWsyI90hOQIDAQABoAAwDQYJKoZIhvcNAQELBQADggEB AJG8FpJOMSAR6x9NPpETiBfznKnkwmlkS4yguu0Vw3Fz5FoSaCLahFkcn9YHK4fL CMi2QQM90GgKnGVs6ogC0TmGy6T7B+BS/EMajpqTPEomFTOU0ynqEnF+mxDPUSp2 lkBVA/SYFCKW4McMgDbkfqyOca3Pewyc9woeVbf2EwYpYGDH0D0Jh1vfNwWD88xM sNQvghOaQvmgXDcTvZOBalVA9qPm/Rixlwvy3/SJOrgqZOQDePdPaPAAux9fDj0N 49eyG7tITMn6OzfNTHEIrFq7K4/8e1fA6JmbCvH5DmZ1TXIvZqI5E98CMLTLI/xl QCiffhe9f75tEgEIw44fgMM= -----END CERTIFICATE REQUEST-----

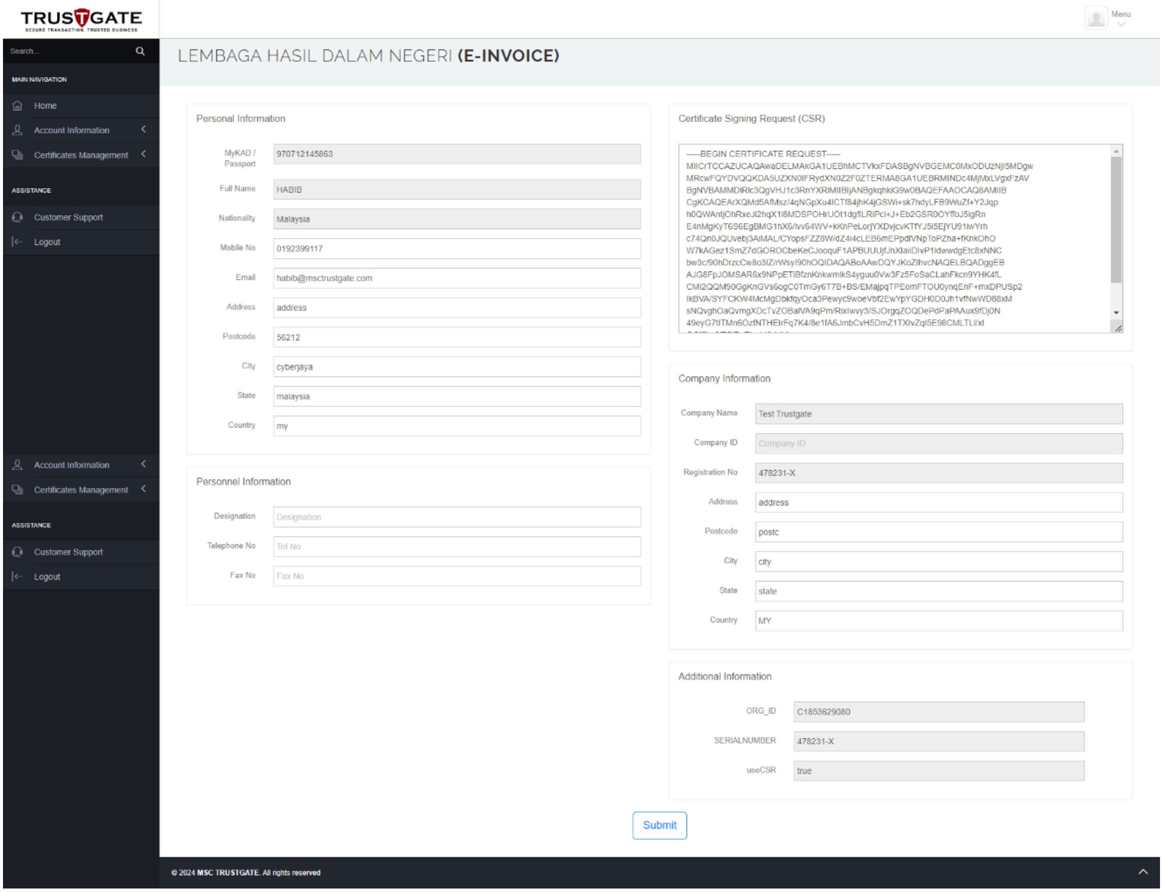
Shipping Information	
Method	Not Available
Price	0

Payment Information	
Status	No Payment
Date	0000-00-00
Type	
Amount	0.00
Reference	

* Notes:

CSR

4. **CSR Information:** Update the CSR information in the mark box.



LEMBAGA HASIL DALAM NEGERI **(E-INVOICE)**

Personal Information

MyKAD / Passport	970712145863
Full Name	HABIB
Nationality	Malaysia
Mobile No	0192399117
Email	habib@msctrustgate.com
Address	address
Postcode	56212
City	cyberjaya
State	malaysia
Country	my

Personnel Information

Designation	Designation
Telephone No	Tel No
Fax No	Fax No

Certificate Signing Request (CSR)

```
-----BEGIN CERTIFICATE REQUEST-----
MIICrTCCAZUCAQAwaDELMAkGA1UEBhMCTVkxFDASBgNVBGEMC0MxODUzNjI5MDgw
MRcwFQYDVQQKDA5UZXN0IFRydXN0Z2F0ZTERMA8GA1UEBRMINDc4MjMxLVgxFzAV
BgNVBAMMDlRlc3QgVHJ1c3RnYXRlMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIB
CgKCAQEArXQMd5AfMsz/4qNGpXu4ICTf84jhK4jGSWi+sk7hdyLFB9WuZf+Y2Jqp
h0QWAntjOhRxeJi2hqX1l8MDSPOHrUOt1dgflLRiPci+J+Eb2GSR0OYffoJ5igRn
E4nMgKyT6S6EgBMG1hX6/lvv64WV+kKnPeLorjYXDvjcvKTfYJ5i5EjYU91iw/Yrh
c74Qn0JQUvebj3AIMAL/CYopsFZZ8W/dZ4i4cLEB6mEPpdlVNpToPZha+fKnkOhO
W7kAGez1SmZ7dGOROCbeKeCJooquF1APBUUJjfJhXIaiiDIvP1ldwwdgEtc8xNNC
bw3c/90hDrzcCw8o3lZ/rWsyI90hOQIDAQABoAAwDQYJKoZIhvcNAQELBQADggEB
AJG8FpJOMSAR6x9NPpETiBfznKnkwmlkS4yguu0Vw3Fz5FoSaCLahFkcn9YHK4fL
CMl2QQM90GgKnGVs6ogC0TmGy6T7B+BS/EMajpqTPEomFTOU0ynqEnF+mxDPUSp2
IkBVA/SYFCKW4McMgDbkfqyOca3Pewyc9woeVbf2EwYpYGDH0D0Jh1vfNwWD88xM
sNQvghOaQvmgXDcTvZOBalVA9qPm/Rixlwvy3/SJOrgqZOQDePdPaPAAux9fDj0N
49eyG7tITMn6OzfNTHEIrFq7K4/8e1fA6JmbCvH5DmZ1TXlvZqI5E98CMLTLl/xl
```

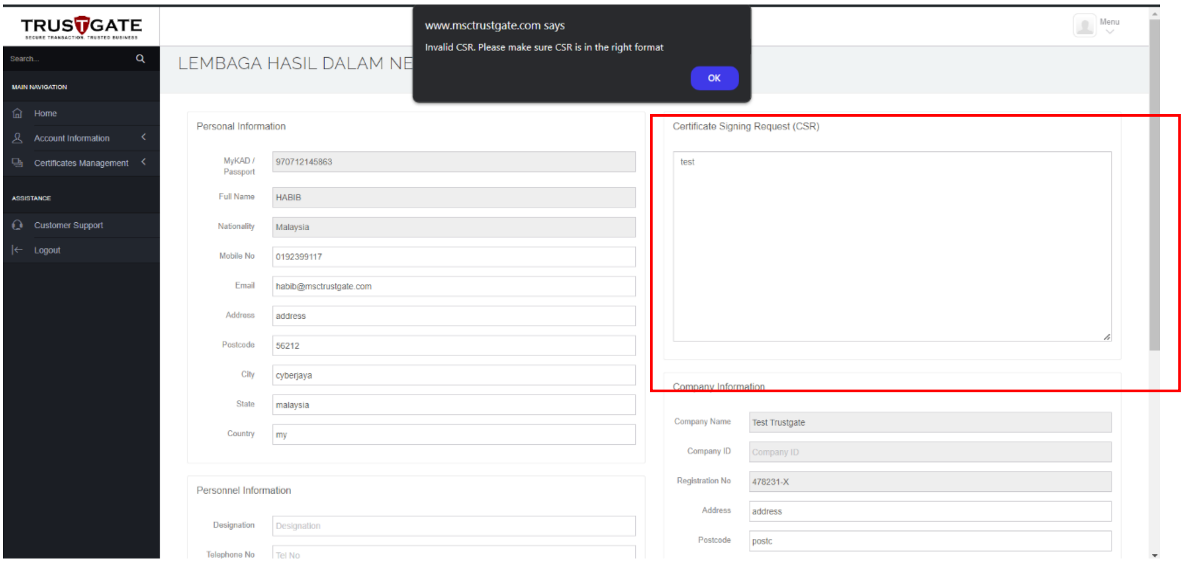
Company Information

Company Name	Test Trustgate
Company ID	Company ID
Registration No	478231-X
Address	address
Postcode	postc
City	city
State	state
Country	MY

Additional Information

ORG_ID	C1853629080
SERIALNUMBER	478231-X
useCSR	true

5. **Invalid CSR:** If you enter the invalid CSR, the message of invalid CSR is displayed on the screen.



www.msctrustgate.com says

Invalid CSR. Please make sure CSR is in the right format

LEMBAGA HASIL DALAM NE

Personal Information

MyKAD / Passport	970712145863
Full Name	HABIB
Nationality	Malaysia
Mobile No	0192399117
Email	habib@msctrustgate.com
Address	address
Postcode	56212
City	cyberjaya
State	malaysia
Country	my

Personnel Information

Designation	Designation
Telephone No	Tel No

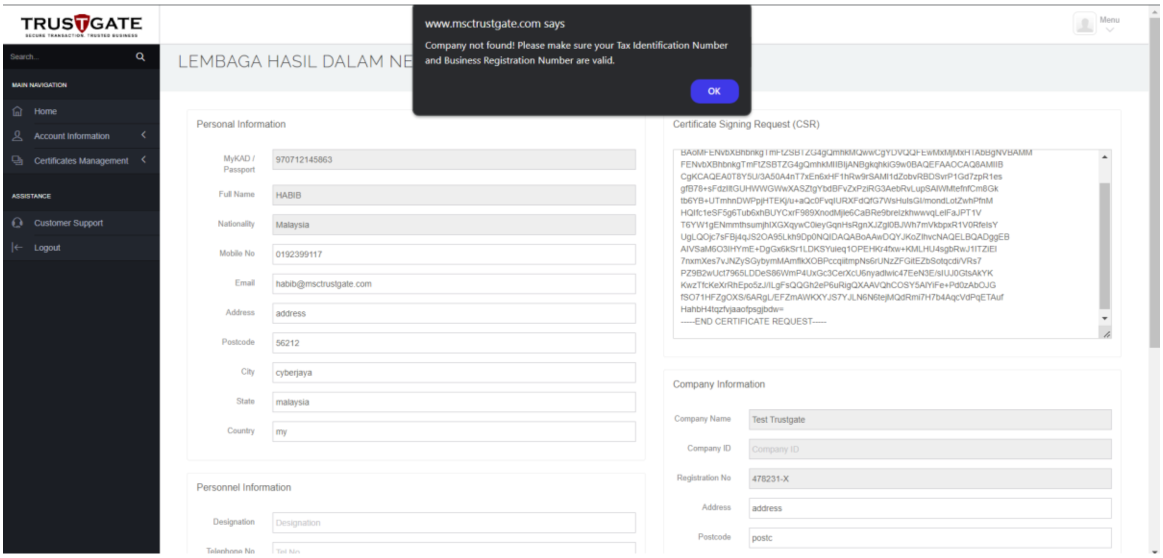
Certificate Signing Request (CSR)

test

Company Information

Company Name	Test Trustgate
Company ID	Company ID
Registration No	478231-X
Address	address
Postcode	postc

6. **Company Information:** Tax Identification Number (TIN) and Business Registration Number (BRN) also can be update. Ensure the TIN and BRN is matched and registered with LHDN. If not, the message is displayed on the screen (as in the picture below).



www.msctrustgate.com says

Company not found! Please make sure your Tax Identification Number and Business Registration Number are valid.

Personal Information

MyKAD / Passport	970712145863
Full Name	HABIB
Nationality	Malaysia
Mobile No	0192399117
Email	habib@msctrustgate.com
Address	address
Postcode	56212
City	cyberjaya
State	malaysia
Country	my

Personnel Information

Designation	Designation
Telephone No	Tel No

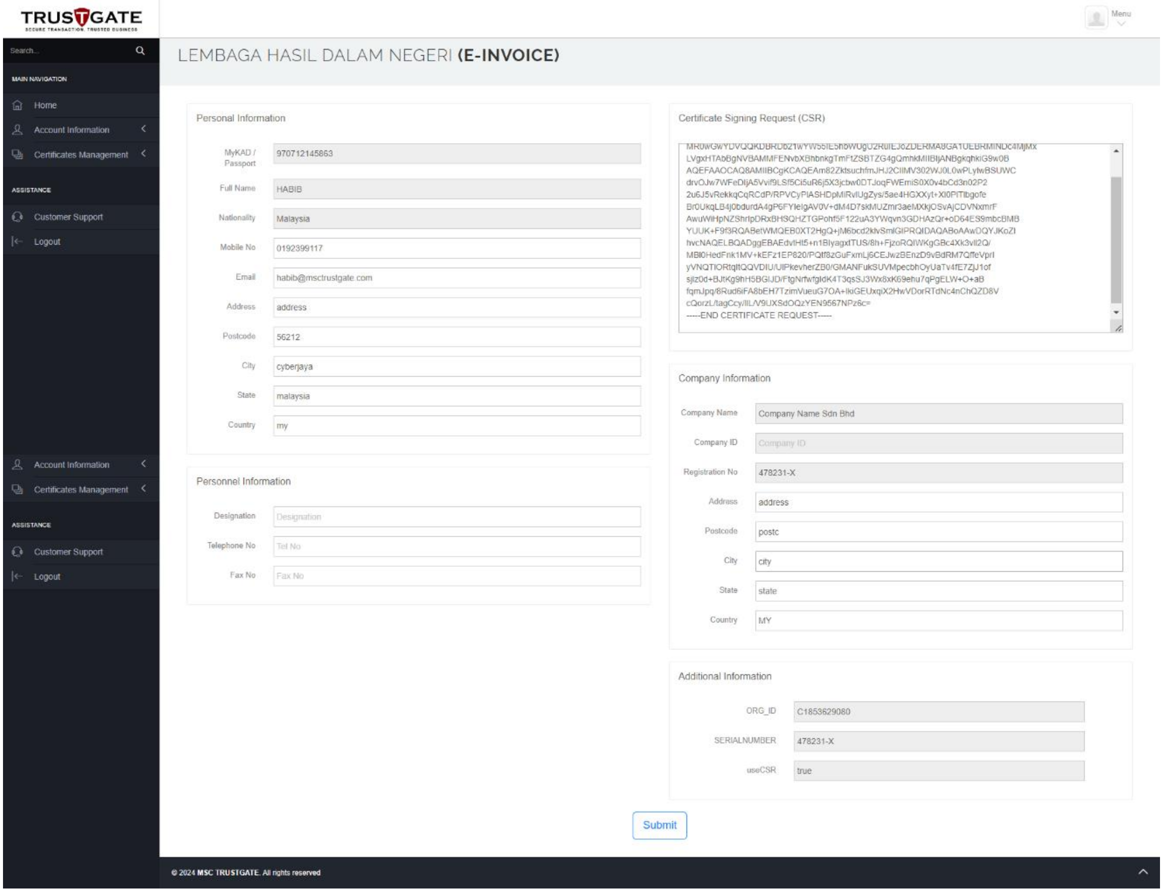
Certificate Signing Request (CSR)

BAoMFENvbXBhbnkgTmFtZSBTZG4gQmhkMQwwCgYDVQQFEwMxMjMxHTAbBgNVBAMM
FENvbXBhbnkgTmFtZSBTZG4gQmhkMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIB
CgKCAQEA0T8Y5U/3A50A4nT7xEn6xHF1hRw9rSAMI1dZobvRBDSvrP1Gd7zpR1es
gfB78+sFdzlltGUHWWGWwXASZtgYbdBFvZxPziRG3AebRvLupSAlWMtefnfCm8Gk
tb6YB+UTmhnDWPpjHTEKj/u+aQc0FvqIURXFdQfG7WsHulsGl/mondLotZwhPfnM
HQIfc1eSF5g6Tub6xhBUYCxrF989XnodMjle6CaBRe9brelzkhwwvqLelFaJPT1V
T6YW1gENmmthsumjhIXGXqywC0leyGqnHsRgnXJZgl0BJWh7mVkbpxR1V0RfelsY
UgLQOjc7sFBj4qJS2OA95Lkh9Dp0NQIDAQABoAAwDQYJKoZIhvcNAQELBQADggEB
AIVSaM6O3IHYmE+DgGx6kSr1LDKSYuleq1OPEHKr4fxw+KMLHU4sgbRwJ1ITZlEI
7nxmXes7vJNZySGybymMAmflkXOBPccqiitmpNs6rUNzZFGitEZbSotqcdi/VRs7
PZ9B2wUct7965LDDeS86WmP4UxGc3CerXcU6nyadlwic47EeN3E/sIUJ0GtsAkYK
KwzTfcKeXrRhEpo5zJ/ILgFsQQGh2eP6uRigQXAAVQhCOSY5AIYiFe+Pd0zAbOJG
fSO71HFZgOXS/6ARgL/EFZmAWKXYJS7YJLN6N6tejMQdRmi7H7b4AqcVdPqETAuf
HahbH4tqzfvjaaofpsgjbdw=
-----END CERTIFICATE REQUEST-----

Company Information

Company Name	Test Trustgate
Company ID	Company ID
Registration No	478231-X
Address	address
Postcode	postc

7. **Completion:** After done update the CSR information, click ‘Submit’



LEMBAGA HASIL DALAM NEGERI **(E-INVOICE)**

Personal Information

MyKAD / Passport	970712145863
Full Name	HABIB
Nationality	Malaysia
Mobile No	0192399117
Email	habib@msctrustgate.com
Address	address
Postcode	56212
City	cyberjaya
State	malaysia
Country	my

Personnel Information

Designation	Designation
Telephone No	Tel No
Fax No	Fax No

Certificate Signing Request (CSR)

MR0wGwYDVQQKDBRDb21wYW55IE5hbWUgU2RuIEJoZDERMA8GA1UEBRMINDc4MjMx
LVgxHTAbBgNVBAMMFENvbXBhbnkgTmFtZSBTZG4gQmhkMIIBIjANBgkqhkiG9w0B
AQEFAAOCAQ8AMIIBCgKCAQEAm82ZktsuchfmJHJ2CIIMV302WJ0L0wPLylwBSUWC
drvOJw7WFeDIjA5Vvif9LSf5Ci5uR6j5X3jcbw0DTJoqFWEmiS0X0v4bCd3n02P2
2u6J5vRekkqCqRCdP/RPVCyPIASHDpMiRvlUgZys/5ae4HGXXyt+Xl0PITlbgofe
Br0UkqLB4j0bdurdA4gP6FYIeIgAV0V+dM4D7skMUZmr3aeMXkjOSvAjCDVNxmrF
AwuWiHpNZShrlpDRxBHSQHZTGPohf5F122uA3YWqvn3GDHAzQr+oD64ES9mbcBMB
YUUK+F9f3RQABetWMQEB0XT2HgQ+jM6bcd2klvSmlGIPRQIDAQABoAAwDQYJKoZI
hvcNAQELBQADggEBAEdvlHt5+n1BlyagxlTUS/8h+FjzoRQIWKgGBc4Xk3vlI2Q/
MBI0HedFnk1MV+kEFz1EP820/PQtf8zGuFxmLj6CEJwzBEnzD9vBdRM7QffeVprl
yVNQTIORtqltQQVDIU/UlPkevherZB0/GMANFukSUVMpecbhOyUaTv4fE7ZjJ1of
sjlz0d+BJtKg9hH5BGIJD/FtgNrfwfgldK4T3qsSJ3Wx8xK69ehu7qPgELW+O+aB
fqmJpq/8Rud6iFA8bEH7TzimVueuG7OA+IkiGEUxqiX2HwVDorRTdNc4nChQZD8V
cQorzL/tagCcy/lIL/V9UXSdOQzYEN9567NPz6c=
-----END CERTIFICATE REQUEST-----

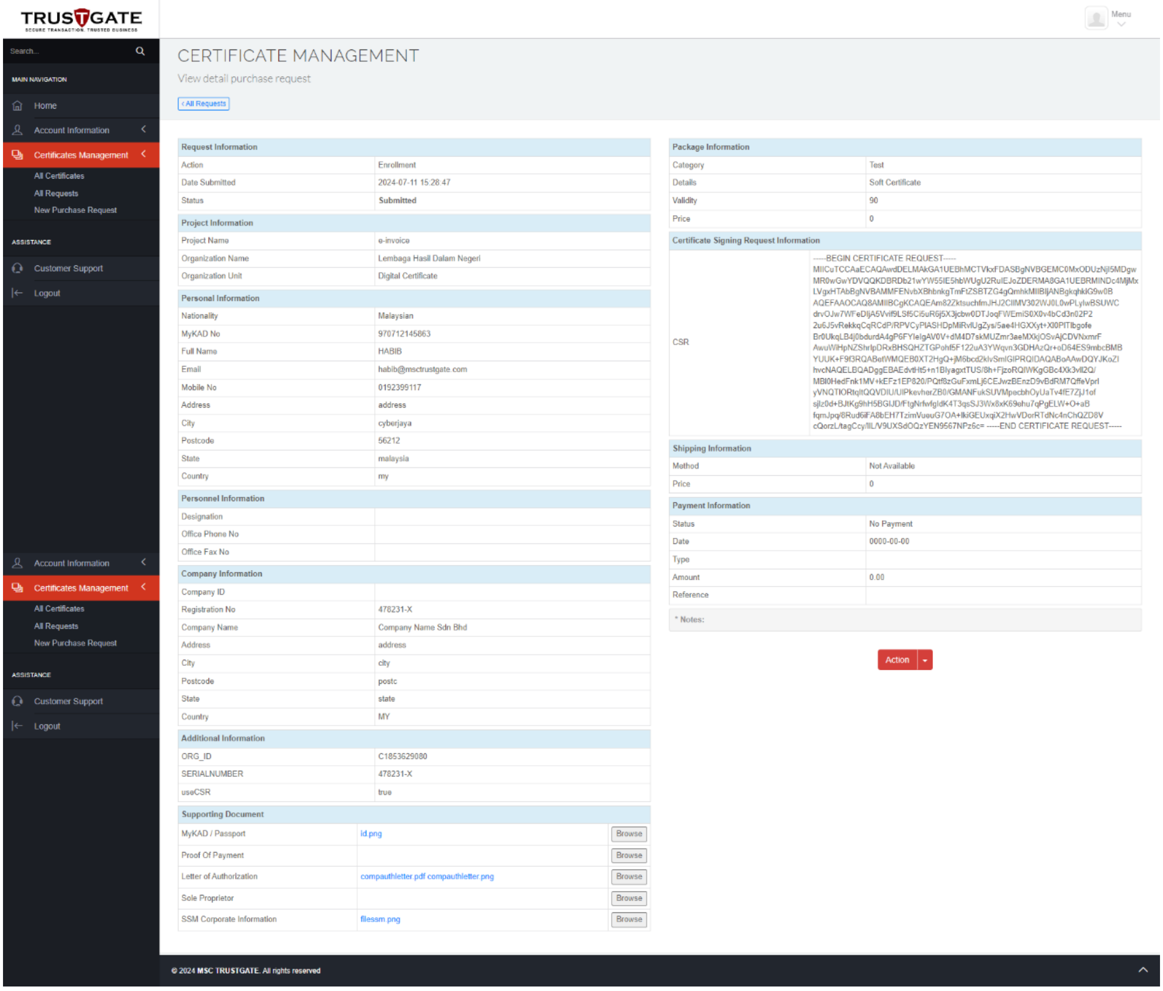
Company Information

Company Name	Company Name Sdn Bhd
Company ID	Company ID
Registration No	478231-X
Address	address
Postcode	postc
City	city
State	state
Country	MY

Additional Information

ORG_ID	C1853629080
SERIALNUMBER	478231-X
useCSR	true

8. **CSR has been updated:** The screen below show after the CSR has been updated.



CERTIFICATE MANAGEMENT

View detail purchase request

‹ All Requests

Request Information	
Action	Enrollment
Date Submitted	2024-07-11 15:28:47
Status	**Submitted**

Project Information	
Project Name	e-invoice
Organization Name	Lembaga Hasil Dalam Negeri
Organization Unit	Digital Certificate

Personal Information	
Nationality	Malaysian
MyKAD No	970712145863
Full Name	HABIB
Email	habib@msctrustgate.com
Mobile No	0192399117
Address	address
City	cyberjaya
Postcode	56212
State	malaysia
Country	my

Personnel Information	
Designation	
Office Phone No	
Office Fax No	

Company Information	
Company ID	
Registration No	478231-X
Company Name	Company Name Sdn Bhd
Address	address
City	city
Postcode	postc
State	state
Country	MY

Additional Information	
ORG_ID	C1853629080
SERIALNUMBER	478231-X
useCSR	true

Supporting Document		
MyKAD / Passport	id.png	Browse
Proof Of Payment		Browse
Letter of Authorization	compauthletter.pdf compauthletter.png	Browse
Sole Proprietor		Browse
SSM Corporate Information	filessm.png	Browse

Package Information	
Category	Test
Details	Soft Certificate
Validity	90
Price	0

Certificate Signing Request Information	
CSR	-----BEGIN CERTIFICATE REQUEST----- MIICuTCCAaECAQAwdDELMAkGA1UEBhMCTVkxFDASBgNVBGEMC0MxODUzNjI5MDgw MR0wGwYDVQQKDBRDb21wYW55IE5hbWUgU2RuIEJoZDERMA8GA1UEBRMINDc4MjMx LVgxHTAbBgNVBAMMFENvbXBhbnkgTmFtZSBTZG4gQmhkMIIBIjANBgkqhkiG9w0B AQEFAAOCAQ8AMIIBCgKCAQEAm82ZktsuchfmJHJ2ClIMV302WJ0L0wPLylwBSUWC drvOJw7WFeDIjA5Vvif9LSf5Ci5uR6j5X3jcbw0DTJoqFWEmiS0X0v4bCd3n02P2 2u6J5vRekkqCqRCdP/RPVCyPIASHDpMiRvlUgZys/5ae4HGXXyt+Xl0PlTIbgofe Br0UkqLB4j0bdurdA4gP6FYIeIgAV0V+dM4D7skMUZmr3aeMXkjOSvAjCDVNxmrF AwuWlHpNZShrlpDRxBHSQHZTGPohf5F122uA3YWqvn3GDHAzQr+oD64ES9mbcBMB YUUK+F9f3RQABetWMQEB0XT2HgQ+jM6bcd2klvSmIGIPRQIDAQABoAAwDQYJKoZI hvcNAQELBQADggEBAEdvtHt5+n1BlyagxtTUS/8h+FjzoRQlWKgGBc4Xk3vll2Q/ MBI0HedFnk1MV+kEFz1EP820/PQtf8zGuFxmLj6CEJwzBEnzD9vBdRM7QffeVprl yVNQTIORtqltQQVDIU/UIPkevherZB0/GMANFukSUVMpecbhOyUaTv4fE7ZjJ1of sjlz0d+BJtKg9hH5BGIJD/FtgNrfwfgldK4T3qsSJ3Wx8xK69ehu7qPgELW+O+aB fqmJpq/8Rud6iFA8bEH7TzimVueuG7OA+IkiGEUxqiX2HwVDorRTdNc4nChQZD8V cQorzL/tagCcy/lIL/V9UXSdOQzYEN9567NPz6c= -----END CERTIFICATE REQUEST-----

Shipping Information	
Method	Not Available
Price	0

Payment Information	
Status	No Payment
Date	0000-00-00
Type	
Amount	0.00
Reference	

* Notes:

Action ▾

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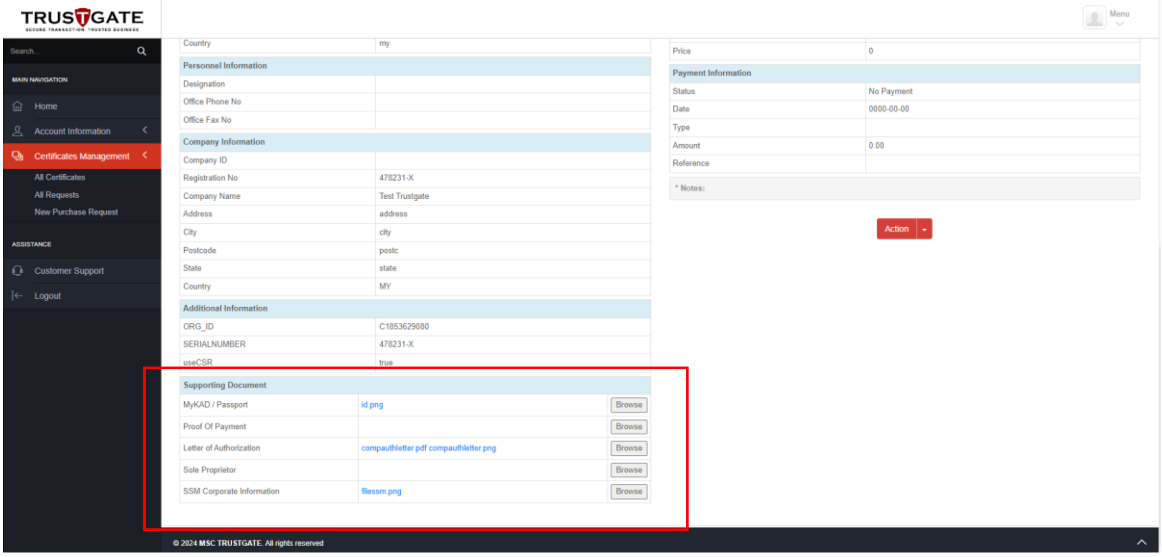
9. **Update Supporting Document:** Click ‘Browse’ button to update the supporting document.



Country	my

Personnel Information	
Designation	
Office Phone No	
Office Fax No	

Company Information	
Company ID	
Registration No	478231-X
Company Name	Test Trustgate
Address	address
City	city
Postcode	postc
State	state
Country	MY

Additional Information	
ORG_ID	C1853629080
SERIALNUMBER	478231-X
useCSR	true

Supporting Document		
MyKAD / Passport	id.png	Browse
Proof Of Payment		Browse
Letter of Authorization	compauthletter.pdf compauthletter.png	Browse
Sole Proprietor		Browse
SSM Corporate Information	filessm.png	Browse

Price	0

Payment Information	
Status	No Payment
Date	0000-00-00
Type	
Amount	0.00
Reference	

* Notes:

Action ▾

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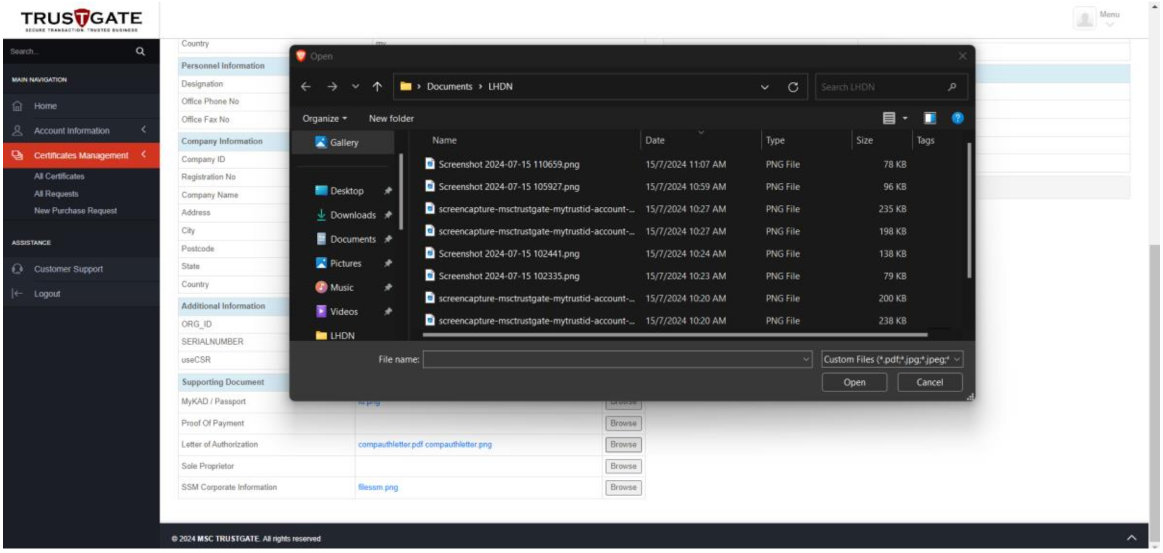
10. **Choose File:** Choose the updated file from your device. Click 'Open' button to proceed. Updating supporting document is done.



Name	Date	Type	Size	Tags
Screenshot 2024-07-15 110659.png	15/7/2024 11:07 AM	PNG File	78 KB	
Screenshot 2024-07-15 105927.png	15/7/2024 10:59 AM	PNG File	96 KB	
screencapture-msctrustgate-mytrustid-account-...	15/7/2024 10:27 AM	PNG File	235 KB	
screencapture-msctrustgate-mytrustid-account-...	15/7/2024 10:27 AM	PNG File	198 KB	
Screenshot 2024-07-15 102441.png	15/7/2024 10:24 AM	PNG File	138 KB	
Screenshot 2024-07-15 102335.png	15/7/2024 10:23 AM	PNG File	79 KB	
screencapture-msctrustgate-mytrustid-account-...	15/7/2024 10:20 AM	PNG File	200 KB	
screencapture-msctrustgate-mytrustid-account-...	15/7/2024 10:20 AM	PNG File	238 KB	

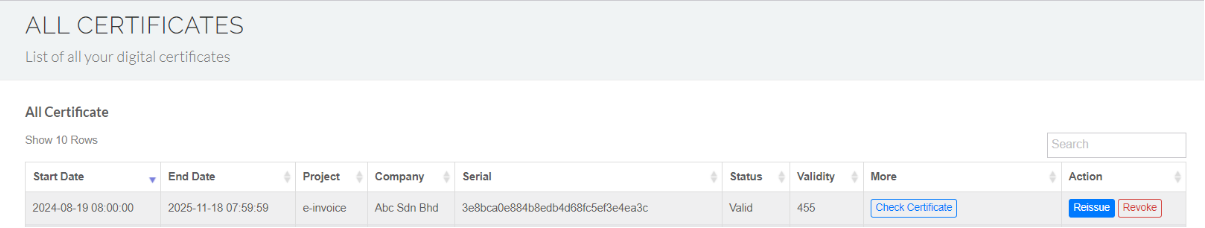
Letter of Authorization: compauthletter.pdf compauthletter.png

SSM Corporate Information: filessm.png

7.3 Reissue Certificate

If the private key is missing, or you need to deploy the same certificate on multiple servers while retaining the same subject Distinguished Name (DN), you can reissue the certificate. To do this, generate a new key pair and create a Certificate Signing Request (CSR) using the existing subject DN. This process ensures that the new certificate retains the original identity, even though the private key has been regenerated. Follow the steps below to reissue the certificate:

1. **Reissue certificate**: To issue certificate, navigate the 'Certificate Management' in the left side bar and click 'All Certificates' option. On this page, you will see a list of all issued certificates. To start reissue process, select the certificate you wish to reissue and click the 'Reissue' button.



ALL CERTIFICATES

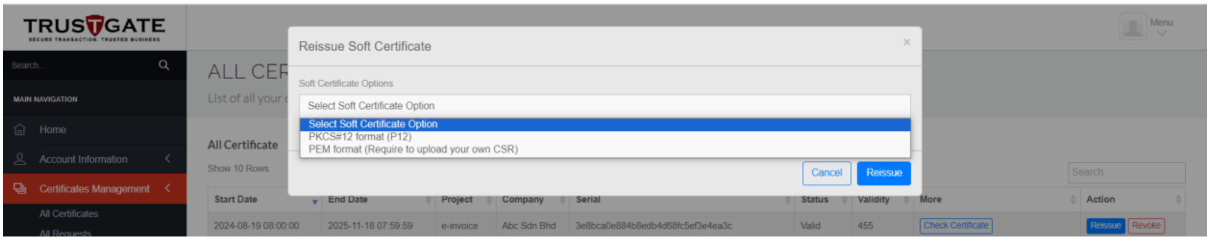
List of all your digital certificates

All Certificate

Show 10 Rows

Start Date	End Date	Project	Company	Serial	Status	Validity	More	Action
2024-08-19 08:00:00	2025-11-18 07:59:59	e-invoice	Abc Sdn Bhd	3e8bca0e884b8edb4d68fc5ef3e4ea3c	Valid	455	Check Certificate	Reissue Revoke

2. **Soft Certificate Option**: Then, select the Soft Certificate Option either PKCS#12 or PEM format.



Reissue Soft Certificate

Soft Certificate Options

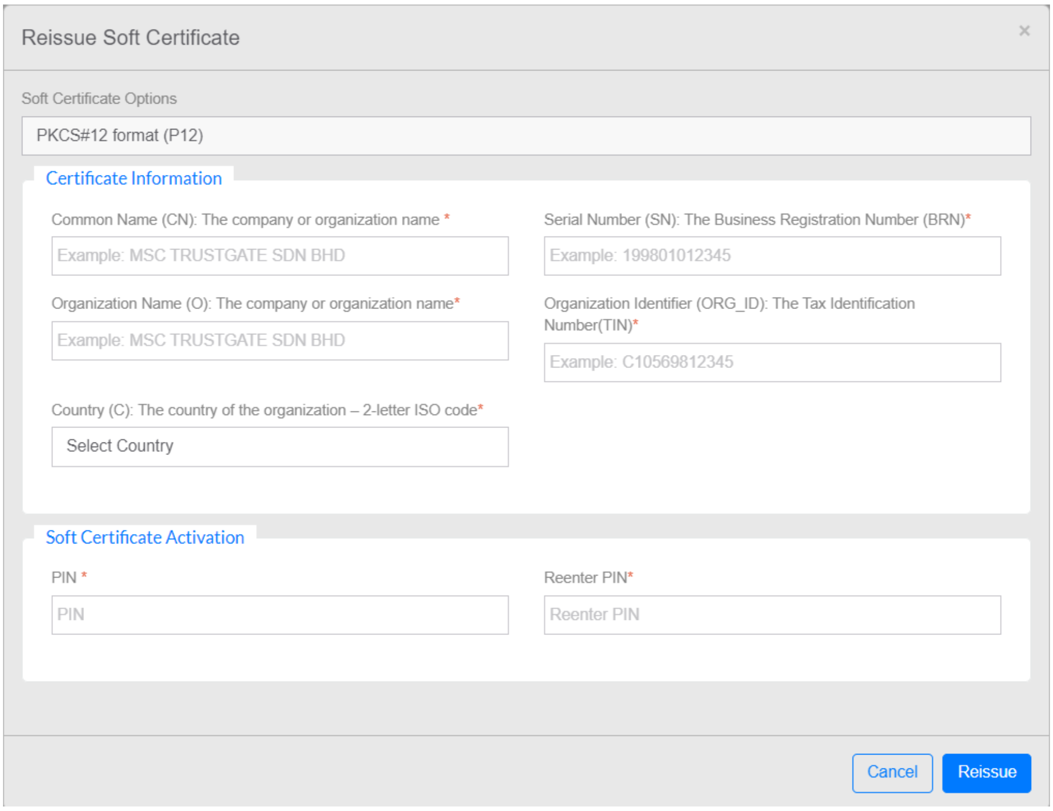
Select Soft Certificate Option

- Select Soft Certificate Option
- PKCS#12 format (P12)
- PEM format (Require to upload your own CSR)

Cancel | Reissue

Start Date	End Date	Project	Company	Serial	Status	Validity	More	Action
2024-08-19 08:00:00	2025-11-18 07:59:59	e-invoice	Abc Sdn Bhd	3e8bca0e884b8edb4d68fc5ef3e4ea3c	Valid	455	Check Certificate	Reissue Revoke

3. **Certificate information**: Fill in the certificate details in the respective fields, ensure the information matches your existing certificate exactly. After that, enter the Soft Certificate Activation PIN that you previously set during the initial certificate activation. Then, click ‘Reissue’ button to proceed.



Reissue Soft Certificate ×

Soft Certificate Options

PKCS#12 format (P12)

Certificate Information

Common Name (CN): The company or organization name *

Example: MSC TRUSTGATE SDN BHD

Serial Number (SN): The Business Registration Number (BRN)*

Example: 199801012345

Organization Name (O): The company or organization name*

Example: MSC TRUSTGATE SDN BHD

Organization Identifier (ORG_ID): The Tax Identification Number(TIN)*

Example: C10569812345

Country (C): The country of the organization – 2-letter ISO code*

Select Country

Soft Certificate Activation

PIN *

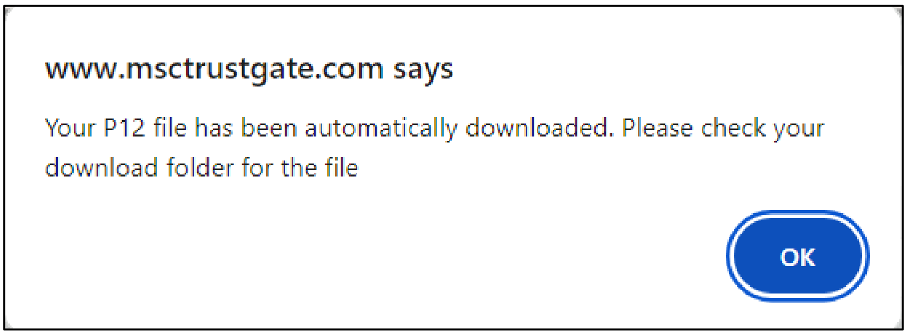
PIN

Reenter PIN*

Reenter PIN

Cancel | Reissue

4. **Certificate Reissue Successful**: A dialog box will appear confirming that your P12 file has been automatically downloaded. Please check your downloads folder to retrieve the file.



www.msctrustgate.com says

Your P12 file has been automatically downloaded. Please check your download folder for the file

8 Certificate Revocation

Certificate revocation is a process in Public Key Infrastructure (PKI) that invalidates a digital certificate before its scheduled expiration date. Reasons for certificate revocation include a compromised private key, a lost or stolen private key or changes to the information contained in the certificate.

Below are the steps to revoke a certificate:

1. **Revocation Form:** Download the revocation form ***HERE***.
2. **Fill out the form:** After downloading the form, please fill it out completely.
3. **Submit the form:** Submit the completed form by sending an email to revoke@msctrustgate.com.
4. **Notification Revocation:** The CA will notify you that the certificate has been successfully revoked. The notification will be sent to your email.
5. **CRL Generation:** The CRL will be generated within 24 hours.

9 Support and Resources

You may request support related to digital certificate by sending an email to support@msctrustgate.com with the subject: [LHDN eInvoice] <Brief description on the problem>. You may also call our support team at 03-83181800 during MSC Trustgate Business Hour (Monday – Friday: 9am – 6pm; Lunch Time: 1pm – 2pm (Friday: 12.15pm – 2.45pm). For other eInvoice inquiries, please contact LHDN directly.

10 Appendices

Appendix A: Generating Certificate Signing Request (CSR)

This section applies solely to purchase for Soft Certificate.

You are solely responsible for managing your key pair and certificate. The key pair must be securely generated and stored. Any data signed using your private key, whether with or without your consent, is your responsibility.

Three frequently tools used for managing Key Pairs are:

- KeyStore Explorer
- OpenSSL
- Java Key Store (JKS)

The Certificate Signing Request (CSR) and certificate must contain the following information:

Certificate Field	OID	Expected Content	Value Example
commonName (CN)	2.5.4.3	The company or organization name.	Company Name Sdn Bhd
serialNumber	2.5.4.5	The business registration number (BRN) of the organization that is linked to the TIN provided above.	202005123456
organizationName (O)	2.5.4.10	The company or organization name.	Company Name Sdn Bhd
organizationIdentifier	2.5.4.97	The Tax Identification Number of the organization (TIN).	C20830570210
countryName (C)	2.5.4.6	The country of the organization - 2-letter ISO code.	MY

Only the following algorithm is supported for LHDN e-Invoice Organization Certificate:

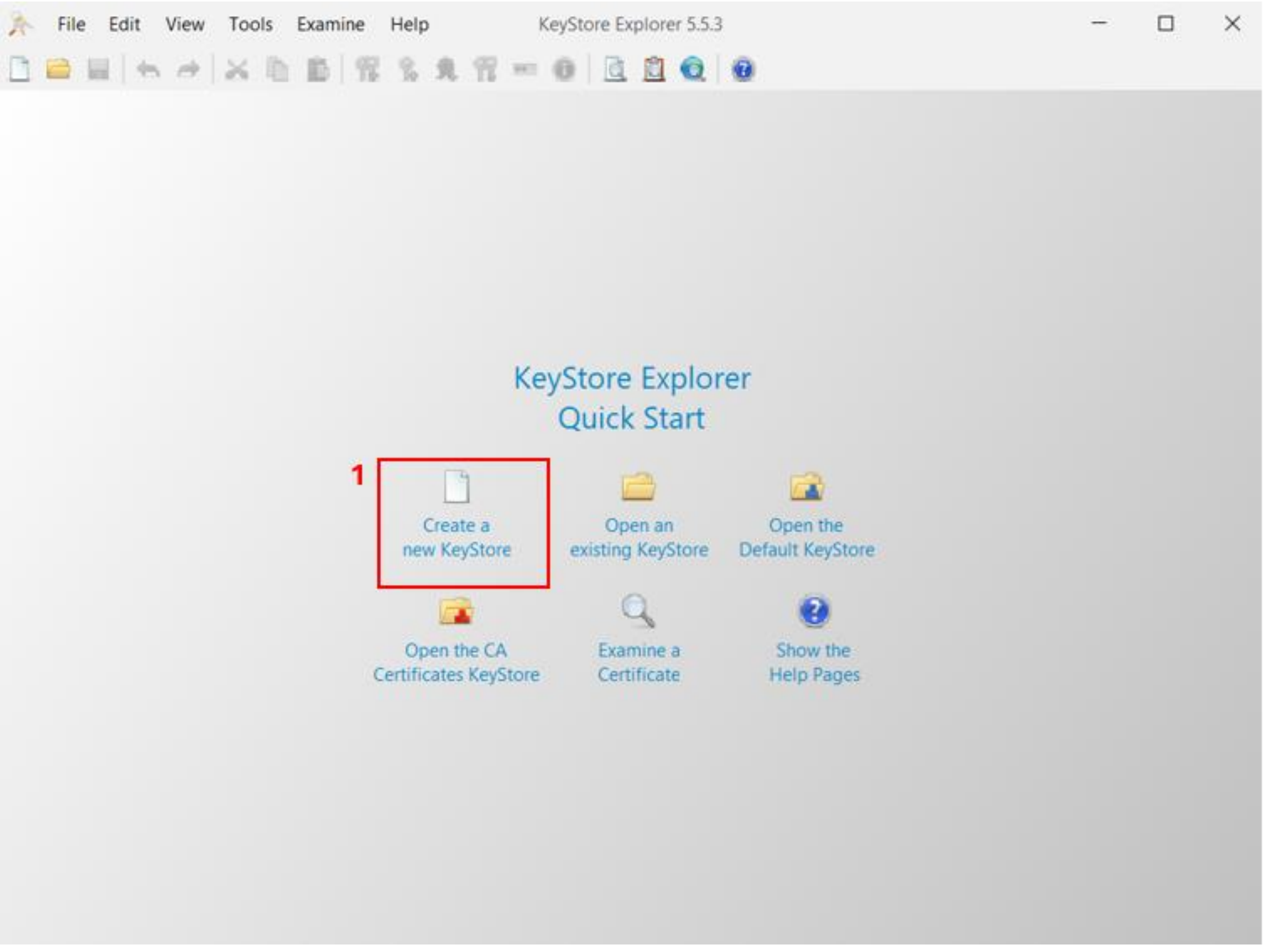
CSR Format:	PKCS#10
Key Type:	RSA
Key Size:	2048
Signature Algorithm:	sha256WithRSAEncryption
Exponent	65537 (0x10001)

a) KeyStore Explorer

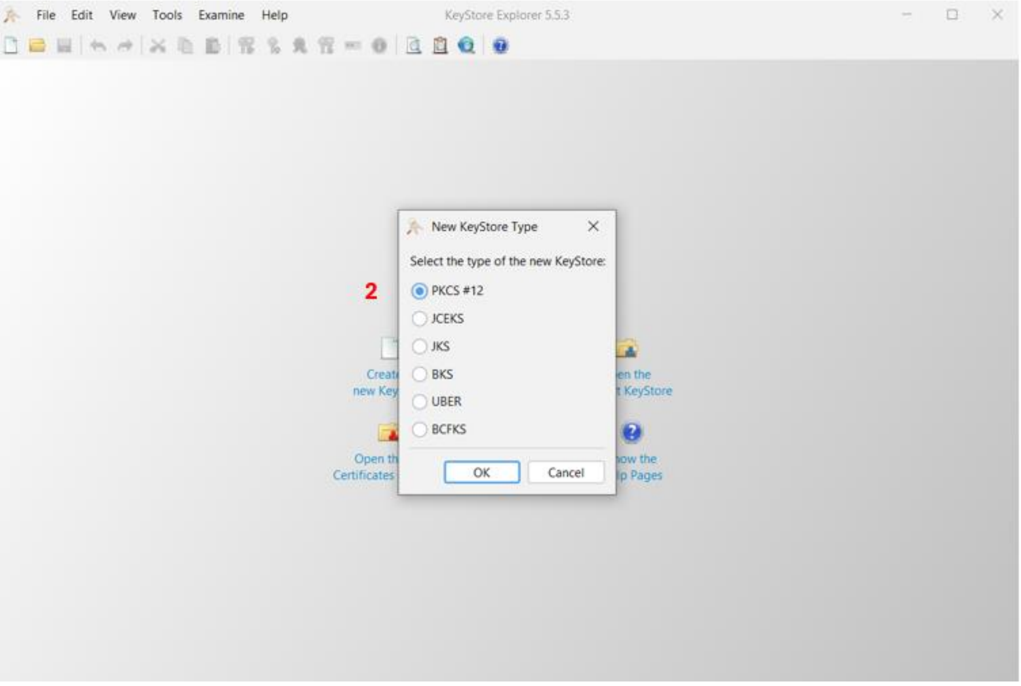
KeyStore Explorer is an open GUI replacement for the Java command-line utilities keytool and jarsigner. KeyStore Explorer can be used to create, edit and save KeyStore files. When using KeyStrore Explorer, the typical order of operations is to generate CSR first, followed by exporting private key. Below is the explanation of generating CSR and export private key:

i. Generate CSR

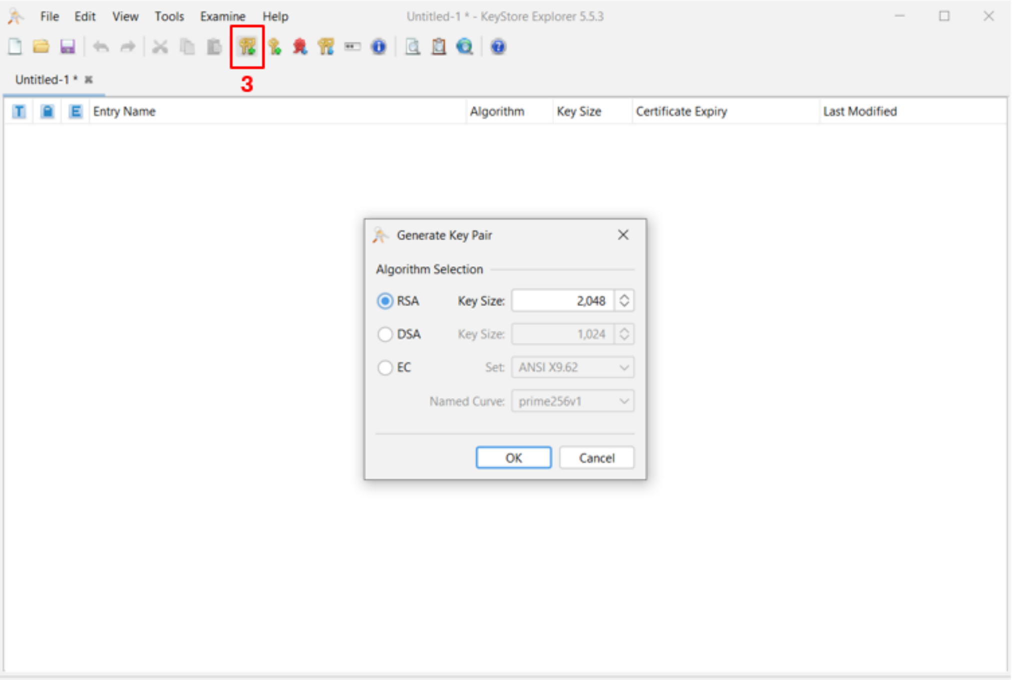
1. **Download and install KeyStore Explorer:** Visit KeyStore Explorer page (https://keystore-explorer.org/) to download and get more information on the program. Install and run the program accordingly.
2. **Create a new KeyStore:** Run KeyStore Explorer and create a new keystore.



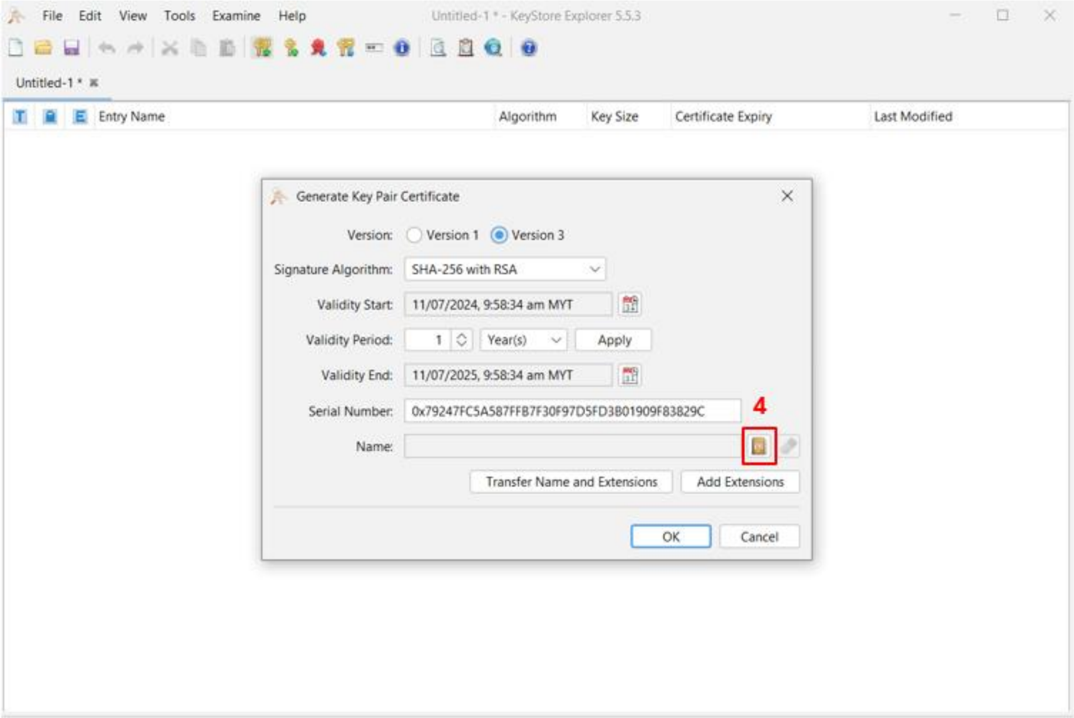
3. **Select New KeyStore type:** You can select the type of the new KeyStore (PKCS#12) as shown in the picture below. Then click 'OK' button to proceed.



4. **Click Generate Key Pair:** Locate Generate Key Pair icon, labelled with the number 3 in the picture below, and click on it. A new dialog box will appear. From the available options, select the cryptographic algorithm "RSA" with Key Size 2,048, as shown in the picture below. Click "OK" to confirm your selection.



5. **Confirm self-signed certificate parameter:** A new dialog box will appear. Leave all the default value as shown in the picture below. This value will be used to generate self-signed certificate. Locate the icon labelled with the number 4 in the picture below and click on it.


File Edit View Tools Examine Help
Untitled-1 * - KeyStore Explorer 5.5.3
Untitled-1 *
T
E
Entry Name
Algorithm
Key Size
Certificate Expiry
Last Modified
4
Transfer Name and Extensions
Add Extensions
OK
Cancel

Generate Key Pair Certificate

Version: ○ Version 1 ● Version 3

Signature Algorithm: SHA-256 with RSA

Validity Start: 11/07/2024, 9:58:34 am MYT

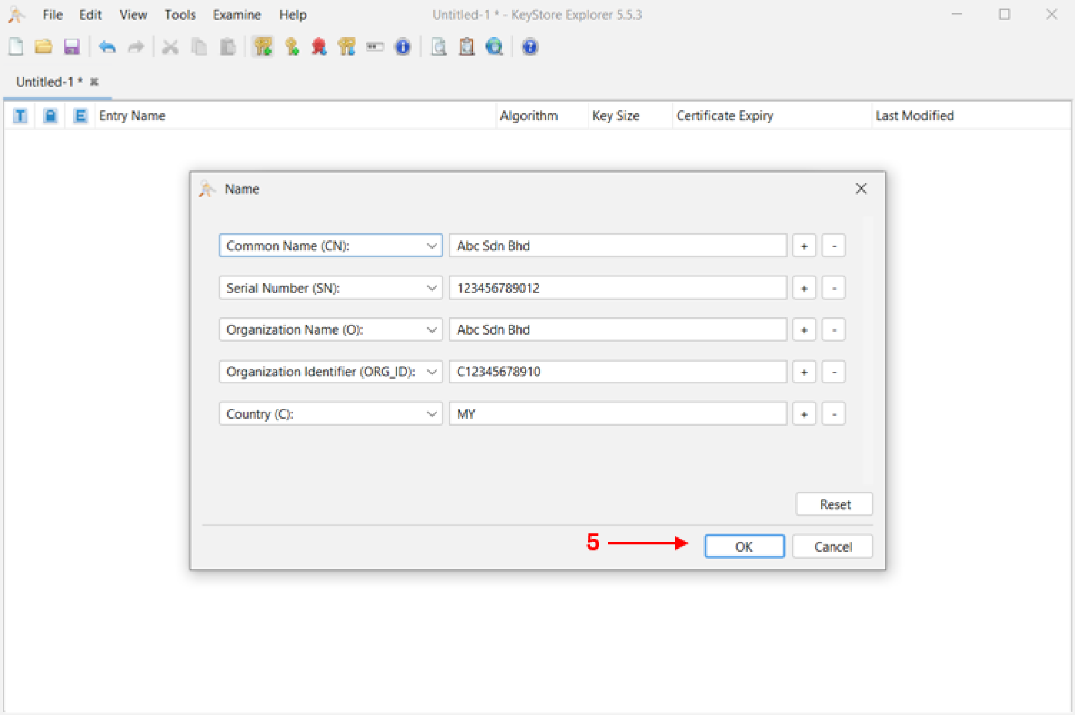
Validity Period: 1 Year(s) Apply

Validity End: 11/07/2025, 9:58:34 am MYT

Serial Number: 0x79247FC5A587FFB7F30F97D5FD3B01909F83829C

Name:

6. **Fill in Certificate Details:** A new dialog box will appear. Enter the required details for the certificate in the corresponding fields as follows, and then click OK button:
    - Common Name (CN): The company or organization name.
    - Serial Number (SN): The Business Registration Number (BRN) of the organization that is linked to the TIN provided above.
    - Organization Name (O): The company or organization name.
    - Organization Identifier (ORG_ID): The Tax Identification Number (TIN) of the organization.
    - Country (C): The country of the organization – 2-letter ISO code



Common Name (CN): Abc Sdn Bhd

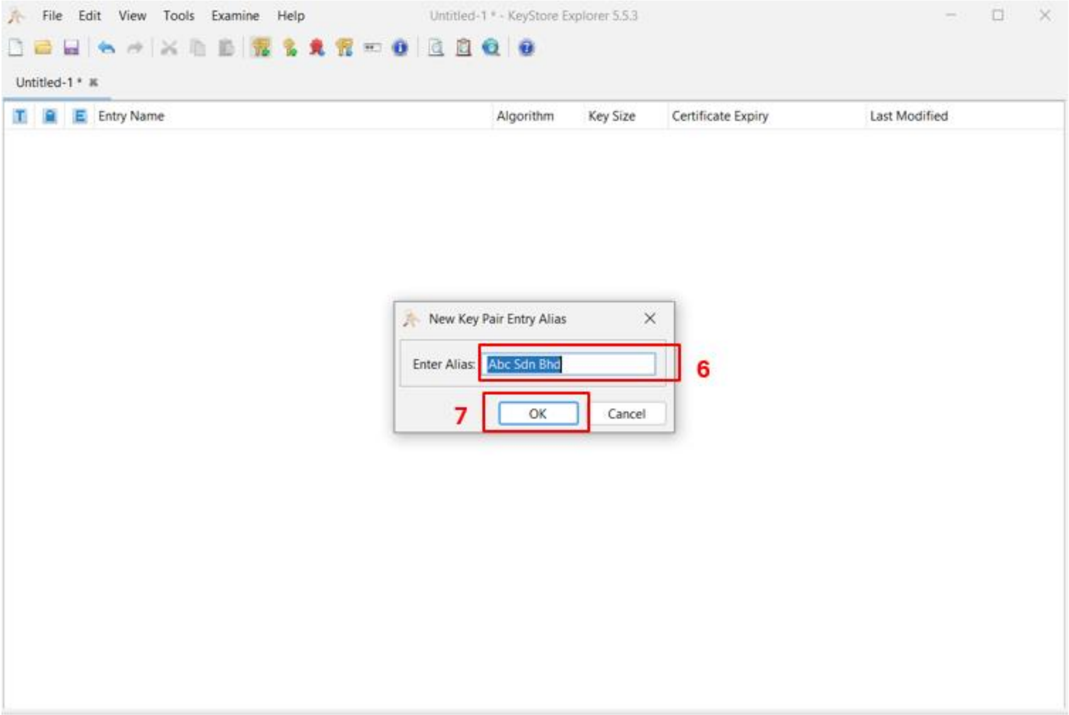
Serial Number (SN): 123456789012

Organization Name (O): Abc Sdn Bhd

Organization Identifier (ORG_ID): C12345678910

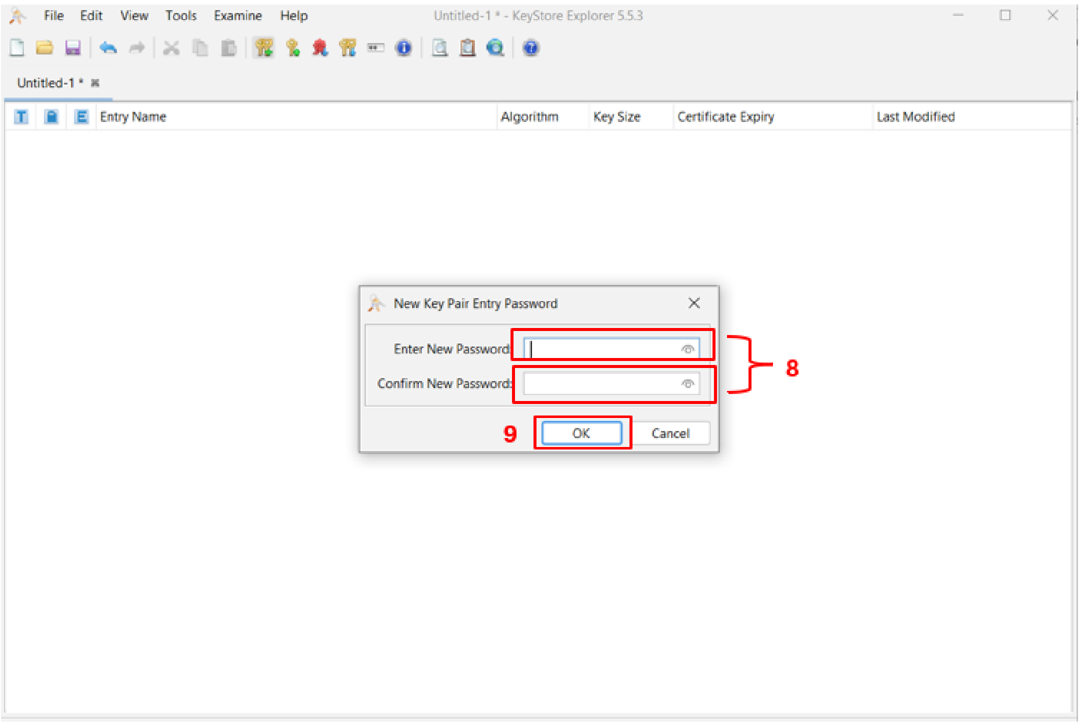
Country (C): MY

7. **Set the Alias:** Assign an alias to the key pair. Enter the Alias name in the respective field (labelled with no 6) and then click ‘OK’ button to proceed.

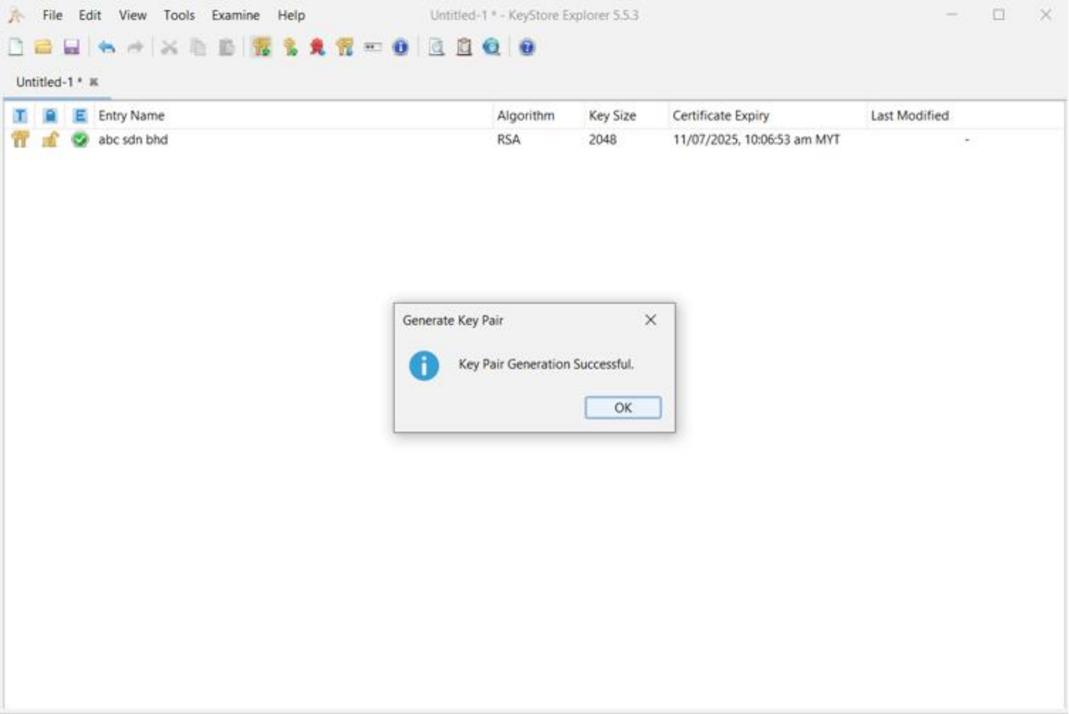


Enter Alias: Abc Sdn Bhd

8. **Set the password:** You will be prompted to set and confirm new password for the private key. After setting up the password, click ‘OK’ button to procced.



9. **Key Pair is generated:** A message will appear on the screen: 'Private Key Generation Successful'. Click the OK button to acknowledge the message. You will now see the alias for the private key you set in Step 7 displayed in the list of keys.

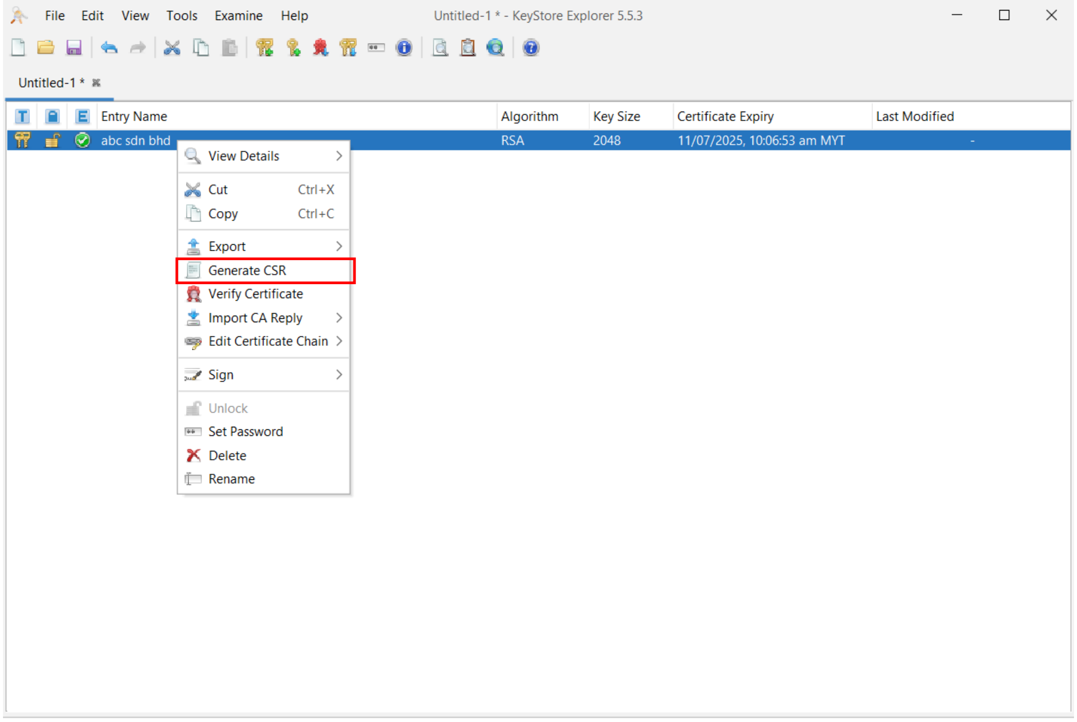


T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
			abc sdn bhd	RSA	2048	11/07/2025, 10:06:53 am MYT	-

Generate Key Pair

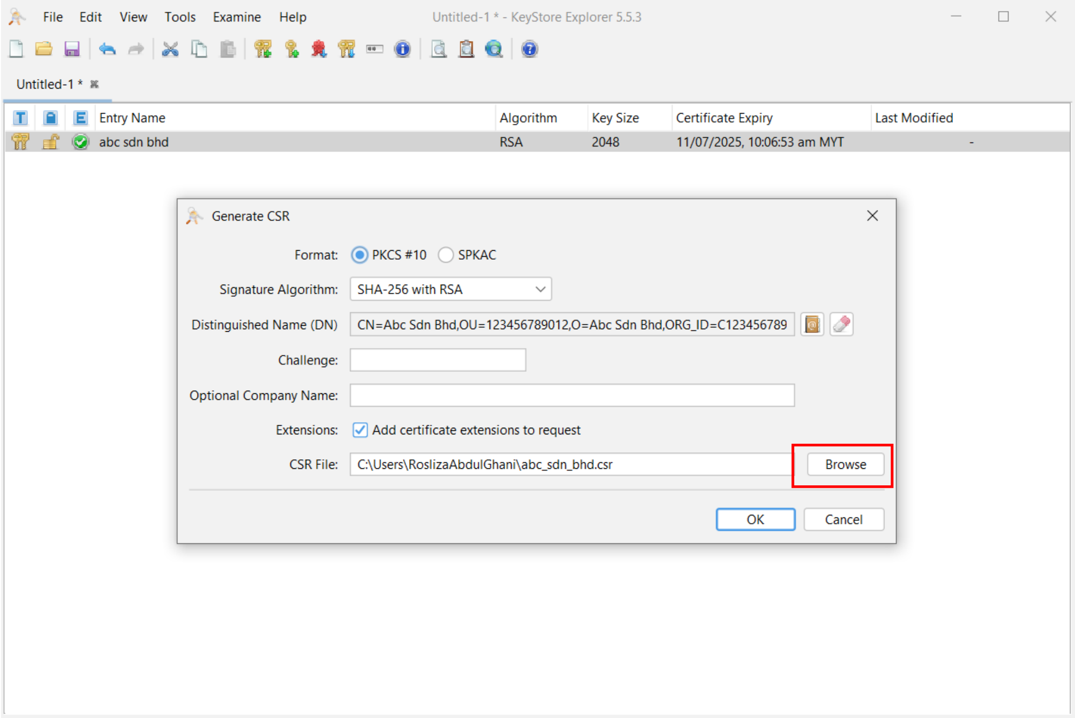
Key Pair Generation Successful.

10. **Initiate Generate CSR:** To generate a Certificate Signing Request (CSR) for the new key created in the previous step, find the Entry Name corresponding to the private key alias you set in the previous step. Right-click on the private key alias (Entry Name). From the context menu that appears, select the option 'Generate CSR'.



T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
			abc sdn bhd	RSA	2048	11/07/2025, 10:06:53 am MYT	-

11. **Confirm CSR parameters:** A new dialog box will appear. Leave all the default value as shown in the picture below. This value will be used to generate CSR. And then click on ‘Browse’ button to locate the location and file name to save your CSR.



T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
		✓	abc sdn bhd	RSA	2048	11/07/2025, 10:06:53 am MYT	-

Generate CSR

Format: ● PKCS #10 ○ SPKAC

Signature Algorithm: SHA-256 with RSA

Distinguished Name (DN): CN=Abc Sdn Bhd,OU=123456789012,O=Abc Sdn Bhd,ORG_ID=C123456789

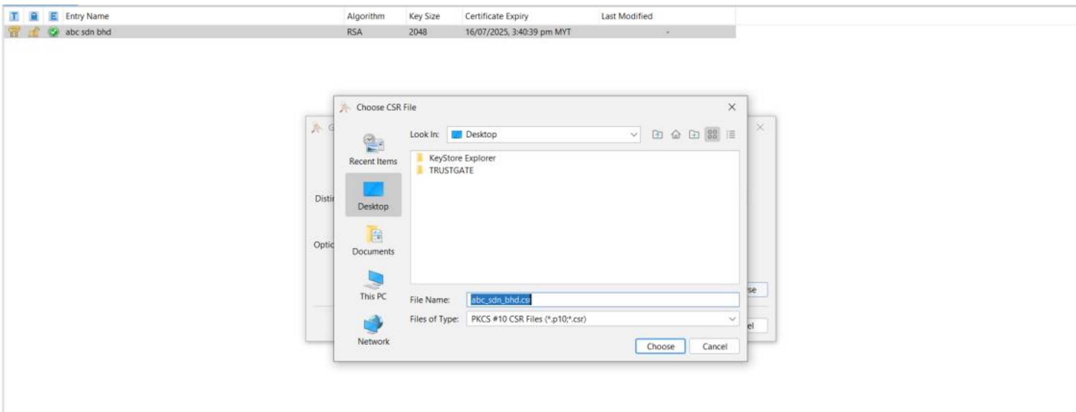
Challenge:

Optional Company Name:

Extensions: ☑ Add certificate extensions to request

CSR File: C:\Users\RoslizaAbdulGhani\abc_sdn_bhd.csr

12. **Save the CSR file:** Browse and confirm file name and its location on your computer to save the exported CSR file. Then, click ‘Choose’ button to save the CSR file.



T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
		✓	abc sdn bhd	RSA	2048	16/07/2025, 3:40:39 pm MYT	-

Choose CSR File

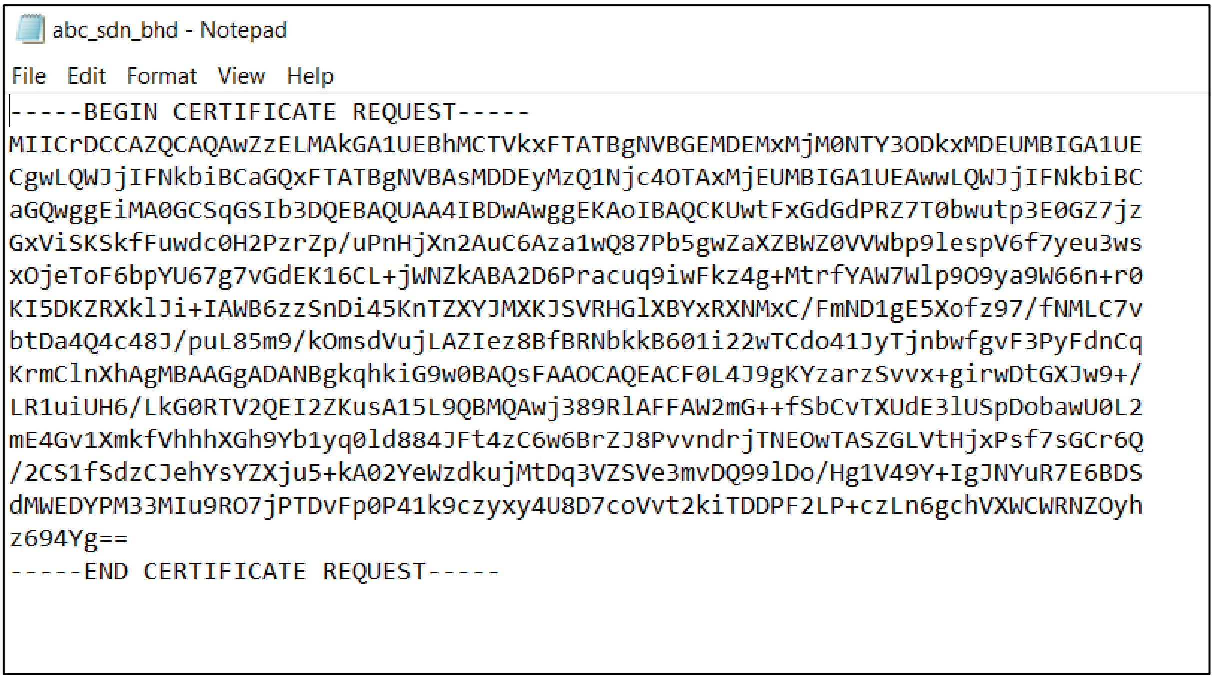
Look In: Desktop

KeyStore Explorer
TRUSTGATE

File Name: abc_sdn_bhd.csr

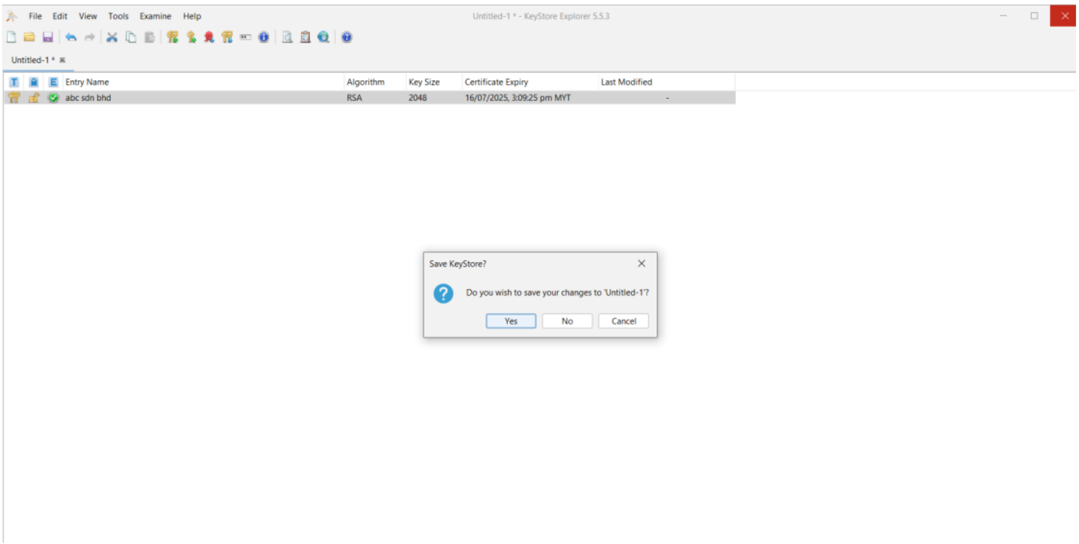
Files of Type: PKCS #10 CSR Files (*.p10;*.csr)

13. **Review Exported CSR File:** You can open CSR file using a notepad to view and copy the contents.



```
-----BEGIN CERTIFICATE REQUEST-----
MIICrDCCAZQCAQAwZzELMAkGA1UEBhMCTVkxFTATBgNVBGEMDEMxMjM0NTY3ODkxMDEUMBIGA1UE
CgwLQWJjIFNkbiBCaGQxFTATBgNVBAsMDDEyMzQ1Njc4OTAxMjEUMBIGA1UEAwwLQWJjIFNkbiBC
aGQwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQCKUwtFxGdGdPRZ7T0bwutp3E0GZ7jz
GxViSKSkfFuwdc0H2PzrZp/uPnHjXn2AuC6Aza1wQ87Pb5gwZaXZBWZ0VVWbp9lespV6f7yeu3ws
xOjeToF6bpYU67g7vGdEK16CL+jWNZkABA2D6Pracuq9iwFkz4g+MtrfYAW7Wlp9O9ya9W66n+r0
KI5DKZRXklJi+IAWB6zzSnDi45KnTZXYJMXKJSVRHGlXBYxRXNMxC/FmND1gE5Xofz97/fNMLC7v
btDa4Q4c48J/puL85m9/kOmsdVujLAZIez8BfBRNbkkB601i22wTCdo41JyTjnbwfgvF3PyFdnCq
KrmClnXhAgMBAAGgADANBgkqhkiG9w0BAQsFAAOCAQEACF0L4J9gKYzarzSvvx+girwDtGXJw9+/
LR1uiUH6/LkG0RTV2QEI2ZKusA15L9QBMQAwj389RlAFFAW2mG++fSbCvTXUdE3lUSpDobawU0L2
mE4Gv1XmkfVhhhXGh9Yb1yq0ld884JFt4zC6w6BrZJ8PvvndrjTNEOwTASZGLVtHjxPsf7sGCr6Q
/2CS1fSdzCJehYsYZXju5+kA02YeWzdkujMtDq3VZSVe3mvDQ99lDo/Hg1V49Y+IgJNYuR7E6BDS
dMWEDYPM33MIu9RO7jPTDvFp0P41k9czyxy4U8D7coVvt2kiTDDPF2LP+czLn6gchVXWCWRNZOyh
z694Yg==
-----END CERTIFICATE REQUEST-----
```

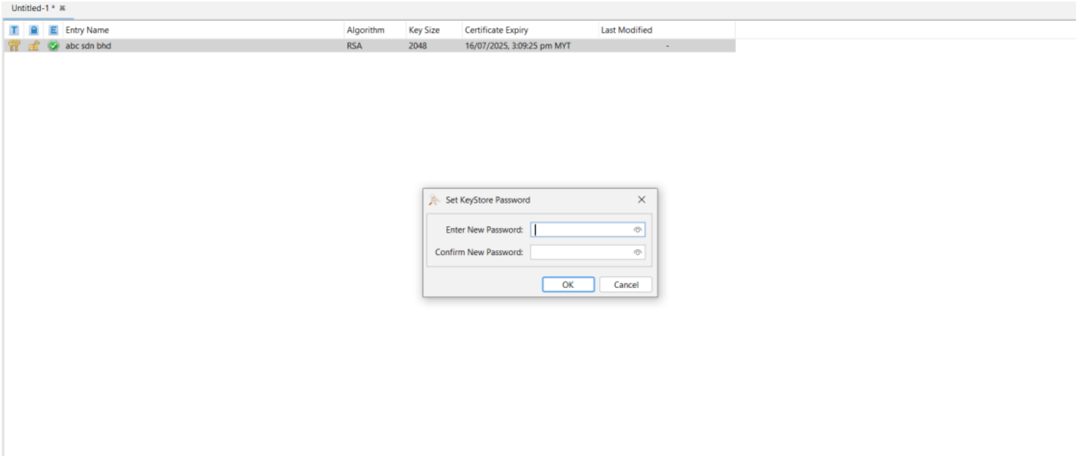
14. **Save KeyStore file:** To ensure your key is available for future use, the KeyStore file need to be saved. When you are ready to close the KeyStore Explorer program, proceed to close the application as usual. A prompt will appear asking if you want to save the KeyStore file. Click the ‘Yes’ button to save the KeyStore file. This ensures that the key you created remains available for digitally signing an e-Invoice.


File Edit View Tools Examine Help
Untitled-1 * - KeyStore Explorer 5.5.3
Untitled-1 *
Save KeyStore?
Yes
No
Cancel

T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
		✓	abc sdn bhd	RSA	2048	16/07/2025, 3:09:25 pm MYT	-

Do you wish to save your changes to 'Untitled-1'?

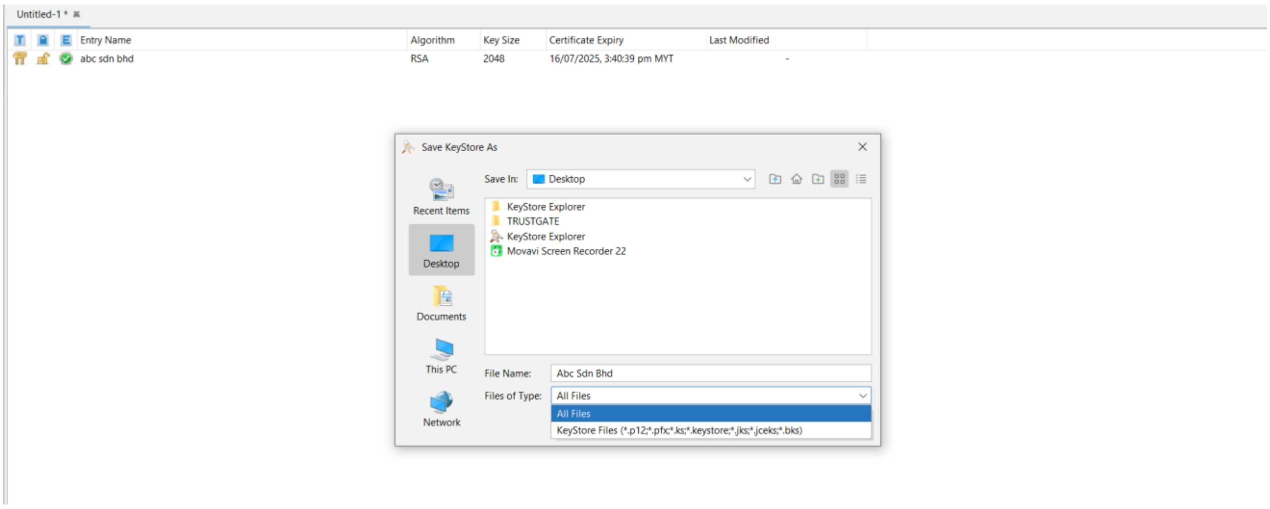
15. **Set Password:** Enter and confirm the password for this KeyStore file. Then, click ‘OK’ to proceed.



Untitled-1 *

T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
		✓	abc sdn bhd	RSA	2048	16/07/2025, 3:09:25 pm MYT	-

16. **File Location:** Choose location to save the file in your laptop. For Files of Type choose ‘All Files’. Then, click ‘Save’ button to proceed.



Untitled-1 *

T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
		✓	abc sdn bhd	RSA	2048	16/07/2025, 3:40:39 pm MYT	-

Save KeyStore As

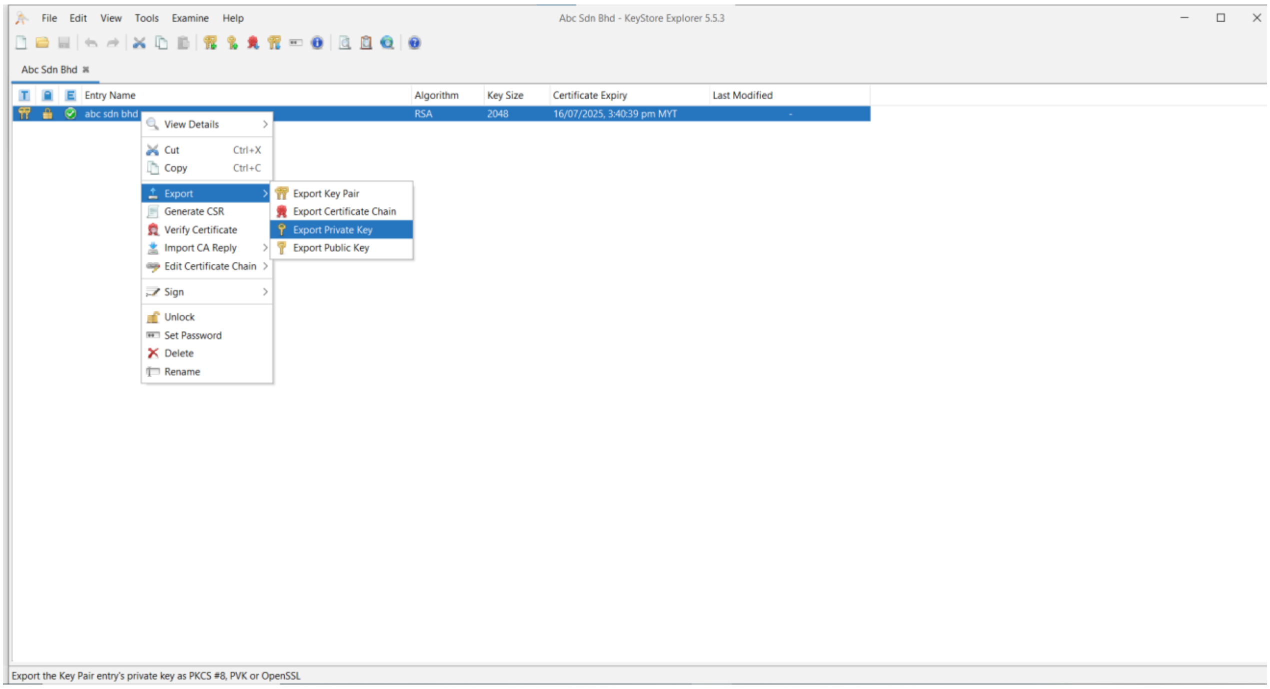
Save In: Desktop

File Name: Abc Sdn Bhd

Files of Type: All Files

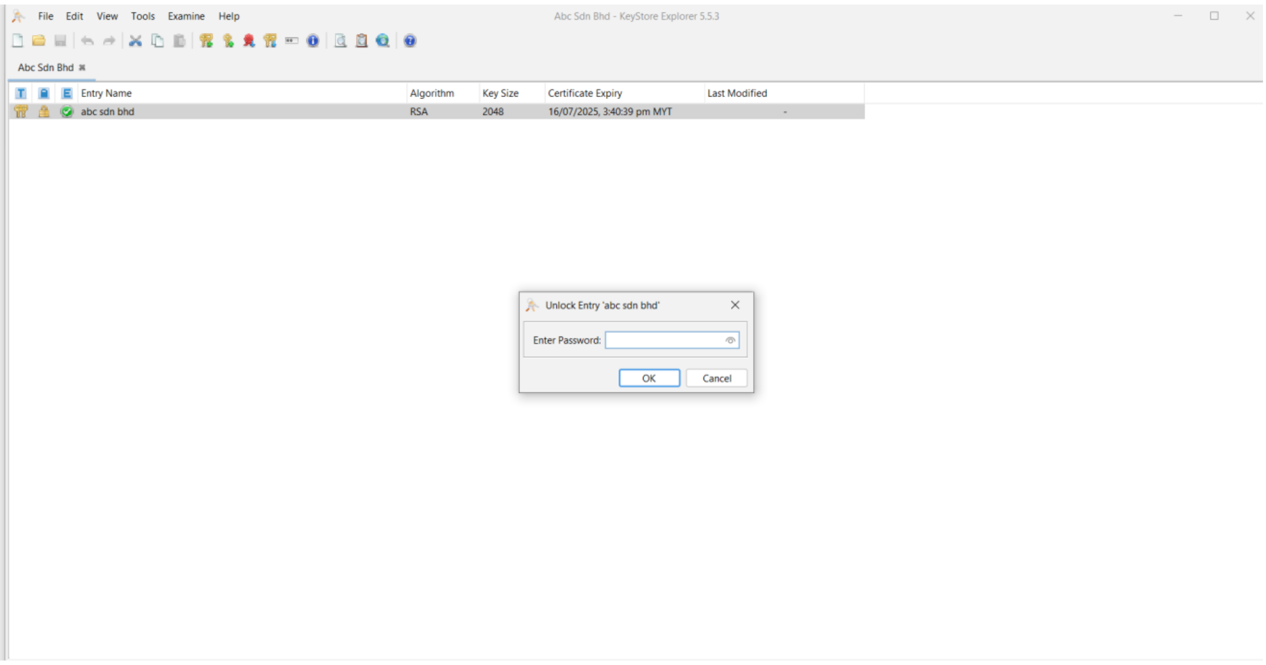
ii. To export private key

1. **Select Private Key**: Right click on the key pair and select 'Export > Export Private Key'.

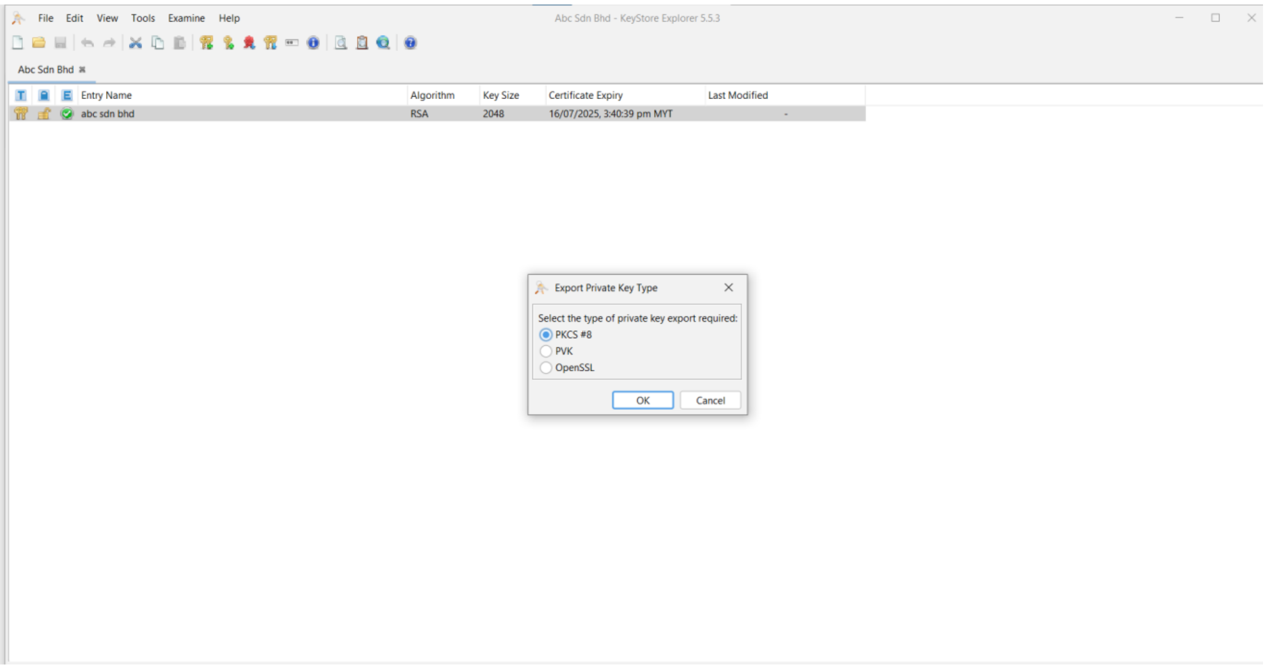


Export the Key Pair entry's private key as PKCS #8, PVK or OpenSSL

2. **Enter password**: Enter password to unlock the Entry Name.


File Edit View Tools Examine Help
Abc Sdn Bhd - KeyStore Explorer 5.5.3
Abc Sdn Bhd
Entry Name
Algorithm
Key Size
Certificate Expiry
Last Modified
abc sdn bhd
RSA
2048
16/07/2025, 3:40:39 pm MYT
Unlock Entry 'abc sdn bhd'
Enter Password:
OK
Cancel

3. **Choose Private Key Type**: You will be presented with options for exporting the private key in different formats. Choose the PKCS #8 type as shown in the picture below. Then, click ‘OK’ button to proceed.



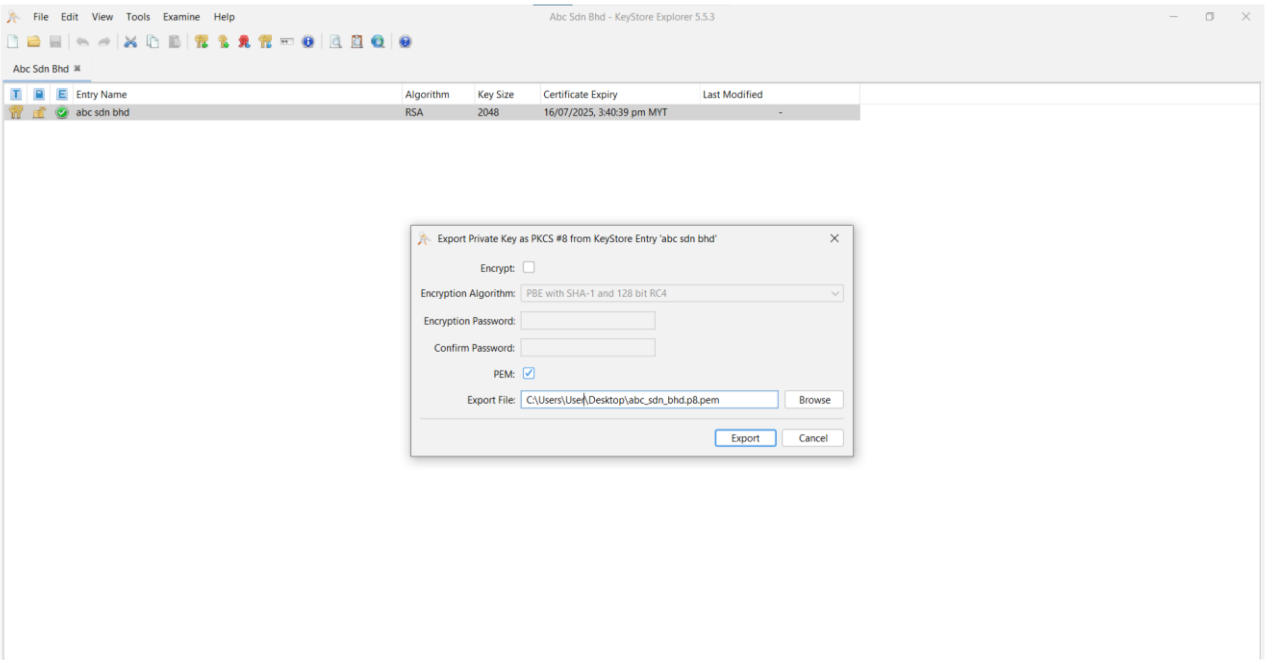
T	🔒	E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
		✓	abc sdn bhd	RSA	2048	16/07/2025, 3:40:39 pm MYT	-

Export Private Key Type

Select the type of private key export required:

● PKCS #8
○ PVK
○ OpenSSL

4. **Export Private Key**: A new dialog box will appear as shown in the picture below. Please **ensure** you:
   - Untick the ‘Encrypt’ box
   - Tick the ‘PEM’ box
   - Click ‘Browse’ button to locate the location and save the export file. Then, click ‘Export’ button to proceed.


File Edit View Tools Examine Help
Abc Sdn Bhd - KeyStore Explorer 5.5.3
Abc Sdn Bhd

T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
		✓	abc sdn bhd	RSA	2048	16/07/2025, 3:40:39 pm MYT	-

Export Private Key as PKCS #8 from KeyStore Entry 'abc sdn bhd'

Encrypt: □

Encryption Algorithm: PBE with SHA-1 and 128 bit RC4

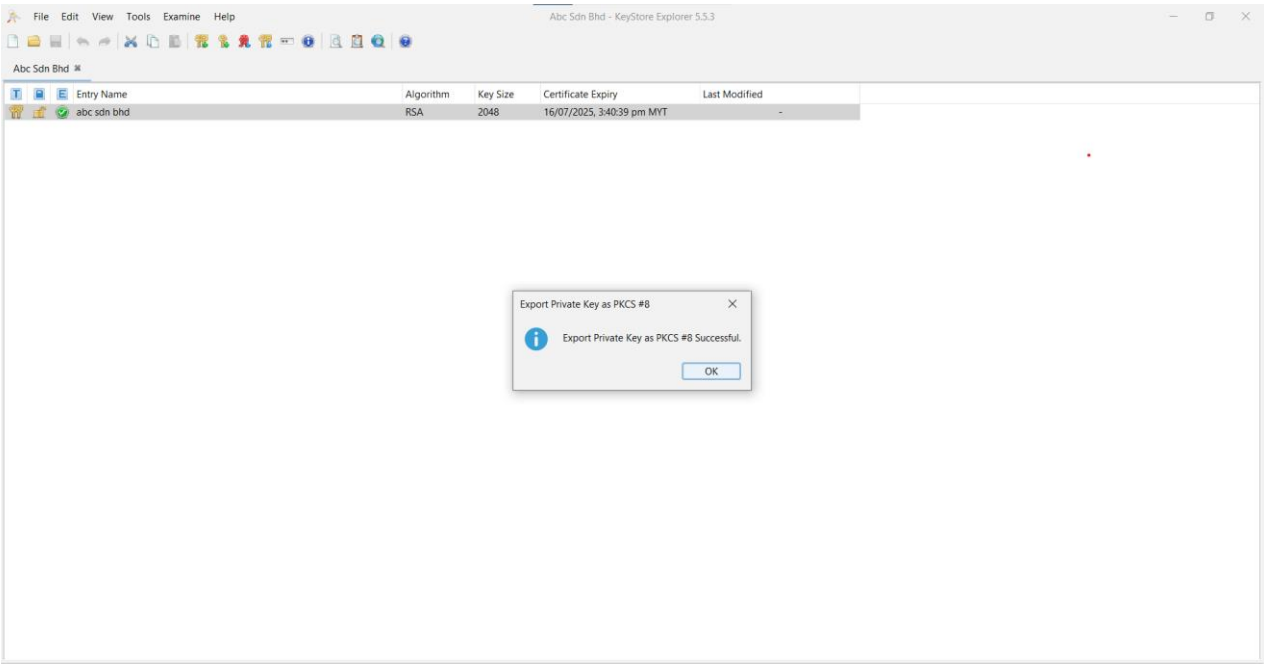
Encryption Password:

Confirm Password:

PEM: ☑

Export File: C:\Users\User\Desktop\abc_sdn_bhd.p8.pem

5. **Successfully Exported:** The private key is successfully exported on your PC. Click ‘OK’ button to proceed.


File Edit View Tools Examine Help
Abc Sdn Bhd - KeyStore Explorer 5.5.3
Abc Sdn Bhd

T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
		✓	abc sdn bhd	RSA	2048	16/07/2025, 3:40:39 pm MYT	-

Export Private Key as PKCS #8

Export Private Key as PKCS #8 Successful.

b) OpenSSL

To generate a key pair and CSR (please replace the organization information accordingly):

```
openssl req -new -newkey rsa:2048 -nodes -keyout eInvoice.key -out
eInvoice.csr -subj
"/C=MY/organizationIdentifier=C20830570210/O=Company Name Sdn
Bhd/serialNumber=202005123456/CN=Company Name Sdn Bhd"
```

Output:

CSR:	eInvoice.csr (This needs to be submitted to MSC Trustgate)
Private Key:	eInvoice.key (This needs to be securely stored)

To check the CSR contents:

```
openssl req -text -noout -in eInvoice.csr
```

c) Java Key Store (JKS)

To generate key pair (kindly replace your organization information accordingly)

```
keytool -genkey -keyalg RSA -keysize 2048 -alias eInvoice -keystore
eInvoice.jks -dname "CN=Company Name Sdn Bhd,
serialNumber=202005123456, O=Company Name Sdn Bhd,
2.5.4.97=C20830570210, C=MY"
```

You may be prompted to set or create your keystore password. Please remember this password.

To generate CSR:

```
keytool -certreq -keyalg RSA -alias eInvoice -keystore eInvoice.jks -
file eInvoice.csr
```

Output:

CSR:	eInvoice.csr (This needs to be submitted to MSC Trustgate)
Key Store:	eInvoice.jks (This needs to be securely stored)

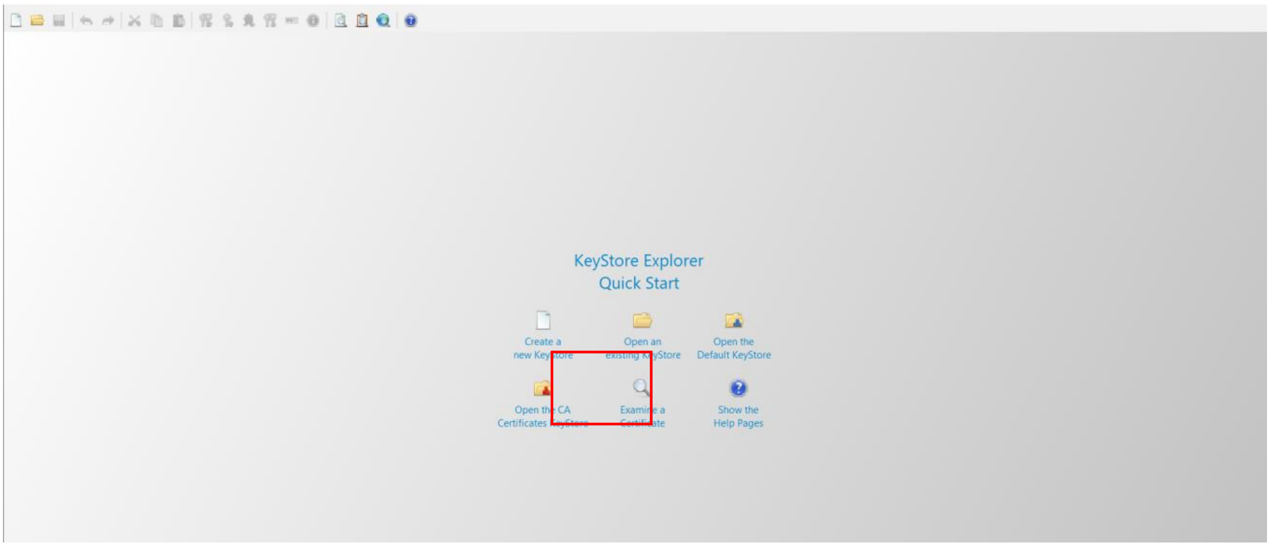
Appendix B: Import PEM file into Key Store

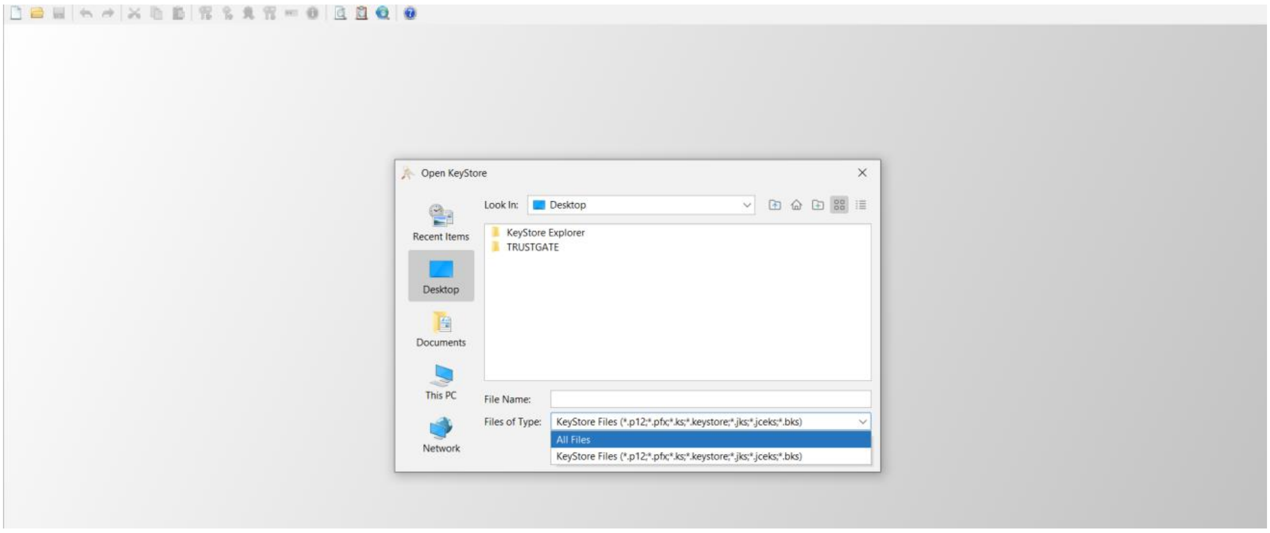
a) KeyStore Explorer

If you already receive a certificate from CA, then you can import the certificate into KeyStore Explorer.

Below are the steps to import the certificate:

1. **Open Existing File:** Click ‘Open an existing KeyStore’ in KeyStore Explorer. Click the location that you save the KeyStore file. For ‘Files of Type’, you can choose All Files.





Look In: Desktop

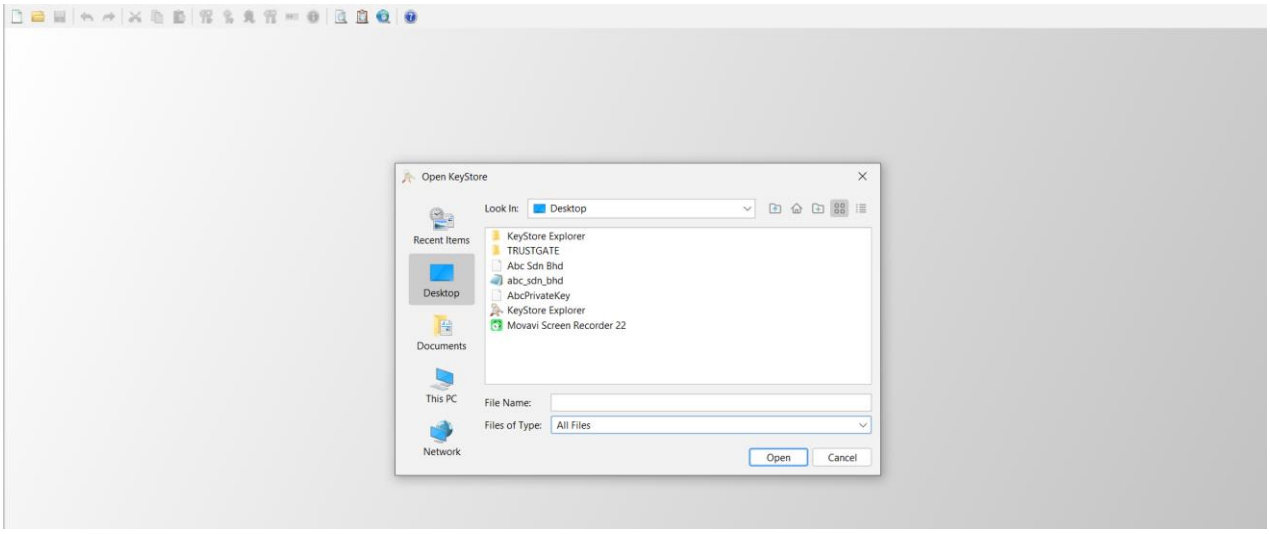
File Name:

Files of Type: KeyStore Files (*.p12;*.pfx;*.ks;*.keystore;*.jks;*.jceks;*.bks)

All Files

KeyStore Files (*.p12;*.pfx;*.ks;*.keystore;*.jks;*.jceks;*.bks)

2. **Choose file:** Choose the saved file to open.

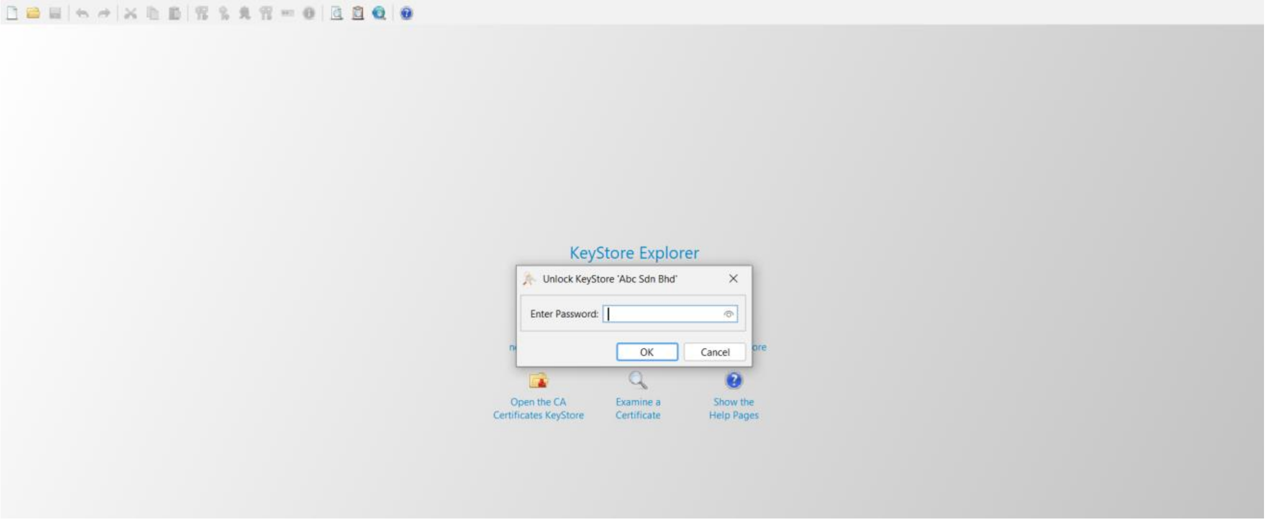


Open KeyStore

Look In: Desktop

Files of Type: All Files

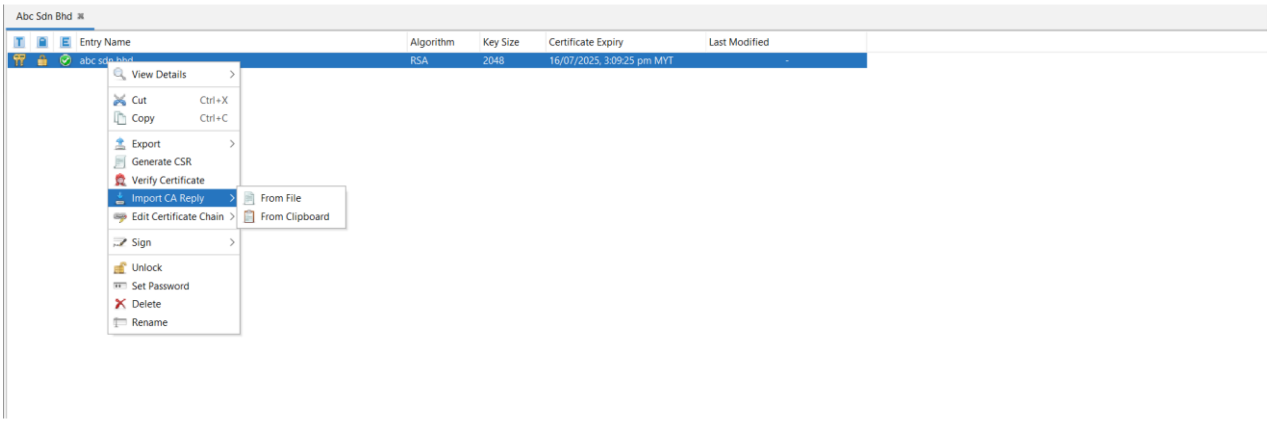
3. **Enter password:** Enter the password to unlock the KeyStore. Then, click ‘OK’ to proceed.



Unlock KeyStore 'Abc Sdn Bhd'

Enter Password:

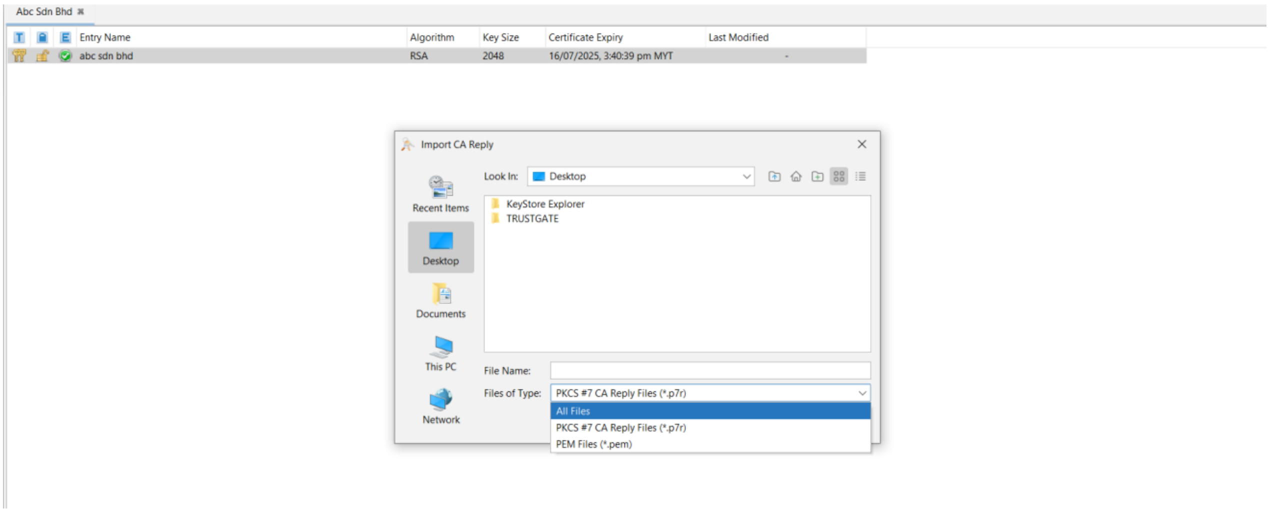
4. **Import certificate:** Right click the key pair entry and select “Import CA Reply” and choose “From File”.



Abc Sdn Bhd

T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
			abc sdn bhd	RSA	2048	16/07/2025, 3:09:25 pm MYT	-

5. **Enter password:** You need to enter password to import the certificate and choose ‘All Files’ for Type of File. Then, browse and choose the certificate file you received from the CA. Click ‘Import’ button to proceed.



Abc Sdn Bhd

T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
			abc sdn bhd	RSA	2048	16/07/2025, 3:40:39 pm MYT	-

Import CA Reply

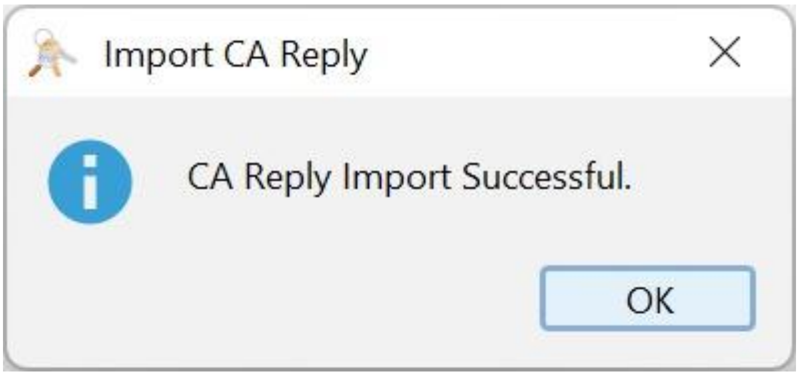
Look In: Desktop

KeyStore Explorer
TRUSTGATE

File Name:

Files of Type: PKCS #7 CA Reply Files (*.p7r)

6. **Successfully Imported:** The certificate from CA is successfully imported in KeyStore Explorer. Click ‘OK’ button to proceed.



Import CA Reply

CA Reply Import Successful.

b) OpenSSL

To import certificate (kindly replace your certificate information accordingly)

```
openssl pkcs12 -export -inkey privatekey.pem -in certificate.pem -
certfile intermediate_certificate.pem -out output.p12
```

c) Java Key Store (JKS)

To import certificate (kindly replace your certificate information accordingly)

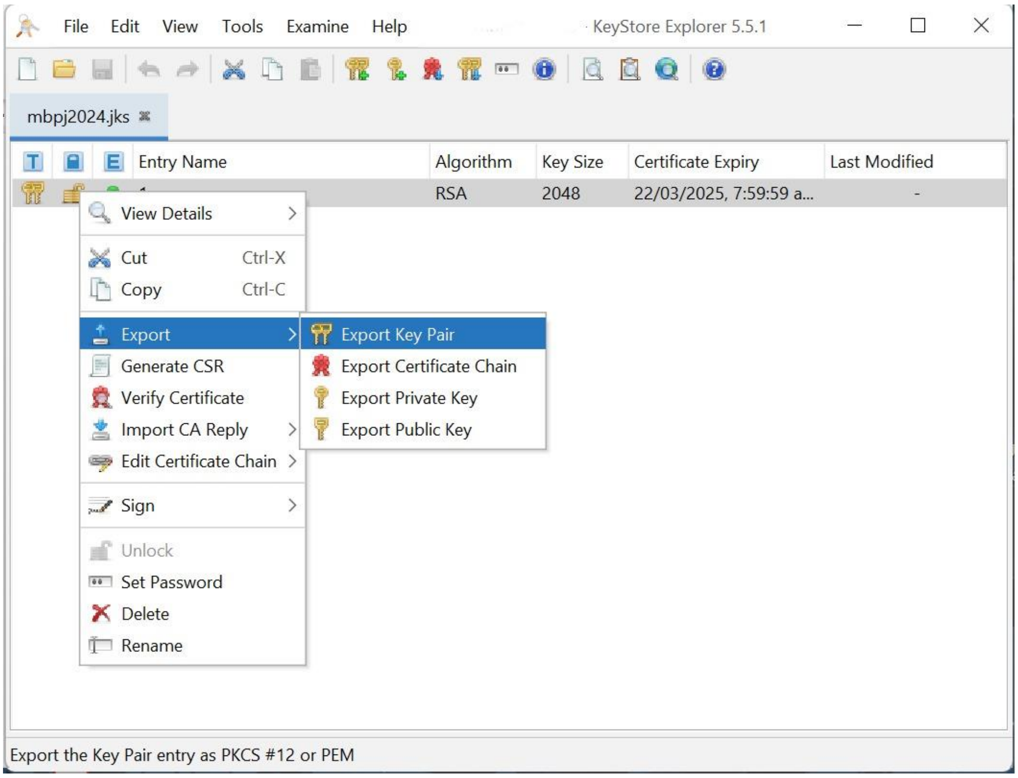
```
keytool -import -alias mycert -file mycertificate.crt -keystore
mykeystore.jks
```

Appendix C: Export Key from Key Store to P12

a) KeyStore Explorer

To export key pair to PKCS#12 format.

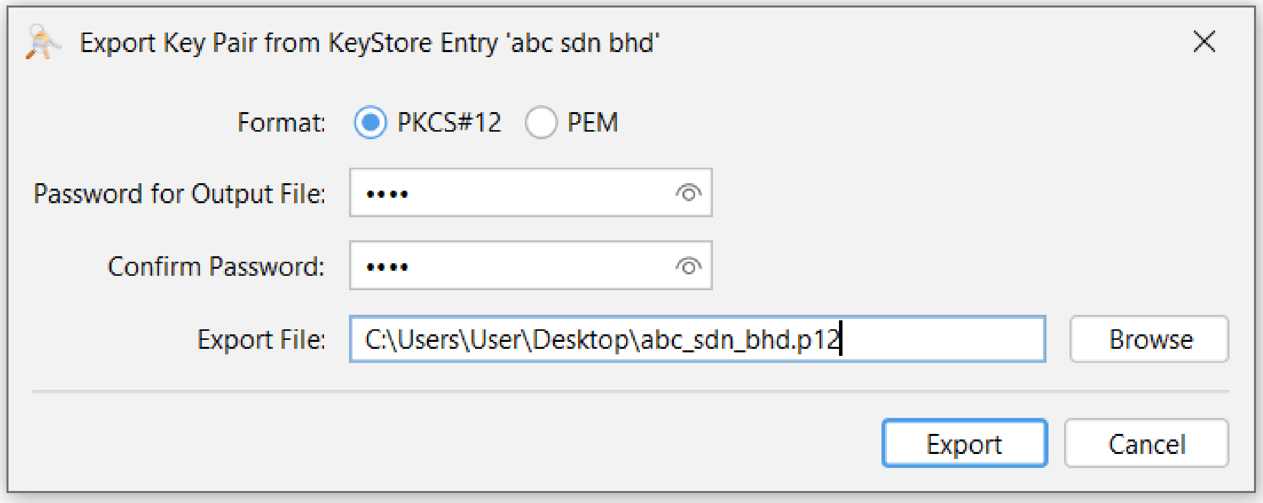
1. **Select Key Pair:** In the KeyStore Explorer window, locate the key pair you want to export. Right click on the key pair and select ‘Export > Export Key Pair’.



T		E	Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified
				RSA	2048	22/03/2025, 7:59:59 a...	-

Export the Key Pair entry as PKCS #12 or PEM

2. **Choose Export Format:** A new dialog box will appear asking you to choose the format for exporting the key pair. Leave all the default value as shown in the picture below.
3. **Set a Password:** You need to enter the ‘Password for Output File’ and ‘Confirm Password’ in the dialog box appeared. This password will be required to import the certificate and private key from the PKCS#12 file later.
4. **Choose a File Location:** Click the ‘Browse’ button to locate the location and file name to export your key pair.


Export Key Pair from KeyStore Entry 'abc sdn bhd'

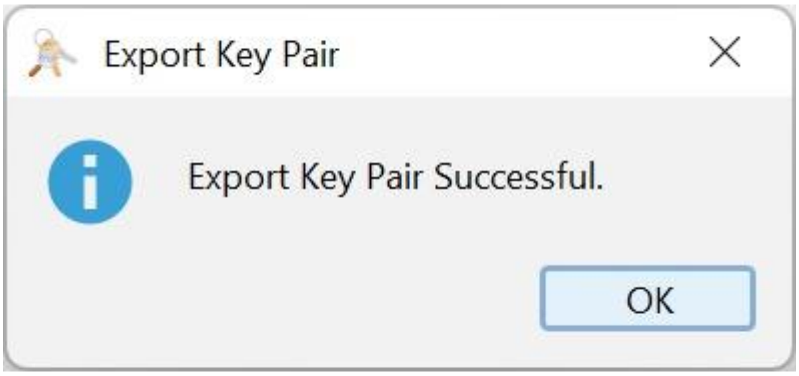
Format: ● PKCS#12 ○ PEM

Password for Output File: ••••

Confirm Password: ••••

Export File: C:\Users\User\Desktop\abc_sdn_bhd.p12

5. **Successfully Exported:** The key pair is successfully exported on your PC. Click **OK** button to proceed.


Export Key Pair

Export Key Pair Successful.

Important Notes:

- **Security:** The PKCS#12 file contains sensitive information (both the private key and certificate), so it’s crucial to keep the file secure and protect it with a strong password.
- **Usage:** The exported PKCS#12 file can be used in various applications or systems that require both certificate and the private key.
- **Portability:** PKCS#12 is a widely supported format, so the file can be easily imported into many different environments.

b) OpenSSL

To export key pair in PKCS #12 format.

```
openssl pkcs12 -export -inkey server.key -in server.cer -certfile
intermediate.cer -out server.p12
```

c) Java Key Store (JKS)

To export key pair in PKCS#12 format.

```
keytool -importkeystore -srckeystore keystore.jks -destkeystore
keystore.p12 -srcstoretype JKS -deststoretype PKCS12 -srcalias
mykeyalias -deststorepass yourp12password -srcstorepass
```

Kindly replace with your information accordingly:

- ‘keystore.jks’ with the name of your Java KeyStore file.
- ‘keystore.p12’ with the desired name of your PKCS#12 file.
- ‘mykeyalias’ with the alias of the key in your ‘.jks’.
- ‘yourp12password’ with the password you want to set for the ‘.p12’ file.
- ‘yourjkspassword’ with the password of your ‘.jks’.