



Remote Signing Service

API And Kafka Specifications For Remote Signing Service

Version 1.7.260225

History

Version	Date (yyMMdd)	Description	Modified by
1.0	250530	❖ Initialization	CUONGHQ
1.1	250602	+ Add new API and Kafka functions: - Authentication - Get Information - Create Credential - Change Credential Application - Get Credential Status - Get Certificates - Sign Hash - Get Signing Status - Reload System	CUONGHQ
1.2	250626	+ Add 4 webhook function: - Receive Transaction ID For Registration - Receive Certificate - Receive Transaction ID For Signing Request - Receive Signature	CUONGHQ
1.3	250710	+ Add new API: - Initiate Data Sharing - Get Data Sharing Status	CUONGHQ
1.4	250716	+ Add new API: - Send Data Sharing Result - Send Withdrawal Consent Result + Add webhook function: - Receive Data Sharing Result - Receive Withdrawal Consent Request	CUONGHQ
1.5	250917	+ Add new API: - Get Providers - Initiate Data Sharing - Get Data Sharing Result - Check User - Create User + Add new Kafka function: - Get Providers - Initiate Data Sharing - Get Data Sharing Result - Check User - Create User	CUONGHQ
1.6	260205	+ Remove API: - Check User - Create User + Remove Kafka function: - Check User - Create User	CUONGHQ
1.7	260225	+ Add new API: - Get Tax Information - Added request header parameters: x-require-user-confirm, x-operation-mode, and x-callback-url - Added callback functionality when x-operation-mode is set to A	CUONGHQ

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1. Introduction

Remote Signing Service is an intermediary platform that facilitates the management and execution of remote digital signing processes. It enables seamless integration with other applications, ensuring security, transparency, and compliance with legal standards. Supporting a wide range of digital certificates, Remote Signing Service provides convenience and efficiency for organizations and businesses.

1.1. Target

Enterprises, financial institutions, government agencies, software developers.

1.2. Abbreviation

Notation	Description
RSS	Remote Signing Service.
RP	Relying Party.
M	Mandatory: A required parameter that must be included in the request.
O	Optional: A parameter that is not required; it can be included or omitted.
RC	Required Condition: A parameter that is required only under specific conditions.
A	Absence: A parameter that is intentionally omitted from the request or response.

1.3. Providers

Provider
HUD-CA2
HUD-VNPT-SMARTCA
HUD-MISA
HUD-SDS
HUD-VT-CA
HUD-FPT-CA
HUD-BKAV-CA
HUD-CMC-CA

1.4. Parameter Information for PoC

Parameters		
No	Name	Value
1	url	https://api.mobile-id.vn/rs/api/v1
2	rp-url	API endpoint to receive webhook notifications from the Relying Party (RP).

Parameters		
No	Name	Value
3	sso-url	https://sso.mobile-id.vn
4	realm	mobile-id
5	client-id	755f1d95-00b8-481c-99eb-d5f46095069c
6	client-secret	LyM0nxekpyKxjwisJU0XDySqCjiVR2ig

2. RSS API

2.1. Authentication

Remote Signing Service uses OAuth 2.0 to authorize client requests. The parameters required to authenticate a client application and retrieve an OAuth 2.0 access token are "grant type", "Client ID", "Client Secret".

- **client_id:** client id will be provided by WSO2 Manager API
- **client_secret:** client secret will be provided by WSO2 Manager API

All APIs in this document follow HTTP web service standards and require authentication using Bearer Token provided by Keycloak IAM.

Generates an access token using Keycloak API. This token is used for authenticating subsequent API requests.

POST - {sso-url}/realms/{realm}/protocol/openid-connect/token

Request Header Parameters				
No	Name	Type	Presence	Description
1	Authorization	String	M	Base64-encoded client_id and client_secret for authentication. Ex: "Basic BASE64-Encode(client_id:client_secret)"
2	Content-Type	String	M	Specifies the media type of the request body. Value: "application/x-www-form-urlencoded"

Request Parameters				
No	Name	Type	Presence	Description
1	grant_type	String	M	The grant type to use for obtaining the token. Available value: "client_credentials"

Response Parameters				
No	Name	Type	Presence	Description
1	access_token	String	M	If the response is successful, the access token will be extracted from the access_token variable. The short-lived service access token used to authenticate the subsequent API requests within the same session.

Response Parameters				
No	Name	Type	Presence	Description
2	expires_in	Long	M	The lifetime in seconds of the service access token.
3	refresh_expires_in	Long	O	The lifetime in seconds of the service refresh token.
4	token_type	String	O	Indicates the type of token. It should be "Bearer".
5	scope	String	O	Client scope is a way to limit the roles that get declared inside an access token.
6	error	String	O	Describes the result.
7	error_description	String	O	Message describes the result in detail.

Example

https://prd-sso.mobile-id.vn/realms/mobile-id/protocol/openid-connect/token		
HTTP Verb		POST
Request Headers		Authorization: Basic ZjgzNTFiNGUtNTI4YS00ZjYxLWI5
		Content-Type: application/x-www-form-urlencoded
Request Body		grant_type=client_credentials
Status Code	Message	Response Body
200	OK	{ "access_token": "eyJhbGsdciOCl6J9.eyJleHAfd40iJkXX0.Tbmf5tTsdH22HQ", "expires_in": 2700, "refresh_expires_in": 0, "token_type": "Bearer", "scope": "email profile" }
400	Bad Request	{ "error": "invalid_request", "error_description": "Missing form parameter: grant_type" }
401	Unauthorized	{ "error": "invalid_client", "error_description": "Invalid client or Invalid client credentials" }

2.2. Get Information

This function retrieves key metadata about the Remote Signing Service system. It provides details such as the current system version, a list of integrated certificate authority providers, and the available digital certificate subscription packages offered by each provider.

GET - {url}/v1/get/system/info

Request Header Parameters				
No	Name	Type	Presence	Description
1	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response message will be returned in the selected language. Available values: "en" "vi". Default: "en".

Response Parameters				
No	Name	Type	Presence in case 2xx	Description
1	version	String	M	The versions of the protocol specifications.
2	name	String	M	The name of the service.
3	description	String	M	The description of the service.
4	logo	String	M	The logo image URL of the service.
5	languages	String[]	M	The languages are supported by the service. Ex: ["vi", "en"].
6	providers[0][provider_name]	String	M	Provider Name
7	providers[0][provider]	String	M	Provider Code
8	providers[0][status]	Integer	M	Provider Status 1: Active. 2: Inactive.
9	providers[0][service_pack_list][0][service_pack_code]	String	M	Service Package Code
10	providers[0][service_pack_list][0][service_pack_name]	String	M	Service Package Name
11	providers[0][service_pack_list][0][service_pack_month]	Integer	M	Service Package Duration (months)
12	providers[0][service_pack_list][0][unit_price]	Integer	M	Service Package Unit Price
13	providers[0][service_pack_list][0][free]	Integer	M	Is Free Service Package 1: Free Package. 2: Paid Package. (Used to ensure that each citizen is eligible for only one free Digital Certificate under this service package.)
14	cache_components	String[]	M	The list of cache components currently in use.

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
				Example: ["ResponseCode"]
15	code	String	A	Code describes the result.
16	message	String	A	Message describes the result.
17	description	String	A	Message describes the result in detail.

Example

{url}/v1/get/system/info		
HTTP Verb		GET
Request Headers		x-language en
Request Body		
Status Code	Message	Response Body
200	OK	<pre>{ "version": "1.7.260225", "name": "Remote Signing Service", "description": "The Remote Signing Service acts as an intermediary gateway that enables users to log into web and application systems through the VNeID platform. It serves as a consent-based data sharing service, allowing citizens to securely share verified personal information with with organizations and businesses. This facilitates streamlined access to citizen-centric services such as banking, insurance, healthcare, and more. Additionally, it empowers users to register for and perform remote digital signing operations via the VNeID system.", "logo": "https://mobile-id.vn/img/logo/logo_new_20161213.png", "languages": ["en", "vi"], "providers": [{ "provider": "HUD-FPT-CA", "provider_name": "Công ty TNHH FPT IS" }], "cache_component": ["ResponseCode"] }</pre>
500	Internal Server Error	<pre>{ "code": "410400001", "message": "Internal Server Error",</pre>

{url}/v1/get/system/info		
		"description": "An unexpected error occurred on the server. Please try again later"
		<pre> } { "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" } </pre>

2.3. Create Credential

This function used to register a new digital certificate credential for the user.

POST - {url}/v1/create/credential

Request Header Parameters				
No	Name	Type	Presence	Description
1	Authorization	String	M	Bearer {access_token} (Access token is obtained from Authentication function).
2	Content-Type	String	M	Specifies the media type of the request body. Value: "application/json"
3	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.
4	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response message will be returned in the selected language. Available values: "en" "vi". Default: "en".

Request Parameters				
No	Name	Type	Presence	Description
1	provider	String	M	Digital Certificate Service Provider.
2	service_package_code	String	M	Digital Certificate Service Package Code.
3	platform	String	O	Specifies the client platform from which the request is initiated. This parameter is used to distinguish whether the calling client is a web application or a mobile application. Values: <ul style="list-style-type: none"> "WEB" → Indicates that the request originates from a web-based client (e.g., browser).

Request Parameters				
No	Name	Type	Presence	Description
				<ul style="list-style-type: none"> • "APP" → Indicates that the request originates from a mobile application (e.g., iOS or Android app). Default: WEB
4	user_info[full_name]	String	O	Full Name of Citizen.
5	user_info[birthday]	String	O	Date of Birth of Citizen.
6	user_info[citizen_pid]	String	M	Personal Identification Number.
7	user_info[issuing_authority]	String	O	Place of Issue of Citizen Identification Card.
8	user_info[date_of_issue]	String	O	Date of Issue of Citizen Identification Card.
9	user_info[gender]	String	O	Gender.
10	user_info[phone]	String	O	Phone Number.
11	user_info[email]	String	O	Email.
12	user_info[nationality_code]	String	O	Nationality Code.
13	user_info[permanent_addresses]	String	O	Permanent address.
14	user_info[permanent_village_code]	String	O	Permanent village code.
15	user_info[permanent_village_text]	String	O	Permanent village text.
16	user_info[permanent_district_code]	String	O	Permanent district code.
17	user_info[permanent_district_text]	String	O	Permanent district text.
18	user_info[permanent_city_code]	String	O	Permanent city code.
19	user_info[permanent_city_text]	String	O	Permanent city text.
20	user_info[living_place_address]	String	O	Living place address.
21	user_info[living_place_village_code]	String	O	Living place village code.
22	user_info[living_place_village_text]	String	O	Living place village text.
23	user_info[living_place_district_code]	String	O	Living place district code.
24	user_info[living_place_district_text]	String	O	Living place district text.

Request Parameters				
No	Name	Type	Presence	Description
25	user_info[living_place_city_code]	String	O	Living place city code.
26	user_info[living_place_city_text]	String	O	Living place city text.
27	user_info[id_card_expire_date]	String	O	Id card expire date.
28	postback_url	String	O	Sends transaction information to the RP after the process is completed.

Response Header Parameters				
No	Name	Type	Presence	Description
1	x-billcode-id	String	M	The bill code ID is generated by the RSS and is used to retrieve information related to the process.
2	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
1	status	String	M	Describes the result if the request is successful.
2	code	String	A	Code describes the result.
3	message	String	A	Message describes the result.
4	description	String	A	Message describes the result in detail.

Example

{url}/v1/create/credential		
HTTP Verb	POST	
Request Headers	Authorization	Bearer {access_token}
	Content-Type	application/json
	x-language	en
Request Body	{	

{url}/v1/create/credential				
		<pre> "user_info": { "full_name": "string", "birth_date": "string", "citizen_pid": "string", "issuing_authority": "string", "date_of_issue": "string", "gender": "string", "phone": "string", "email": "string", "nationality_code": "string", "permanent_address": "string", "permanent_village_code": "string", "permanent_village_text": "string", "permanent_district_code": "string", "permanent_district_text": "string", "permanent_city_code": "string", "permanent_city_text": "string", "living_place_address": "string", "living_place_village_code": "string", "living_place_village_text": "string", "living_place_district_code": "string", "living_place_district_text": "string", "living_place_city_code": "string", "living_place_city_text": "string", "id_card_expire_date": "string" }, "provider": "string", "service_package_code": "string" } </pre>		
Response Headers		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">x-billcode-id</td> <td style="width: 50%;">string</td> </tr> </table>	x-billcode-id	string
x-billcode-id	string			
Status Code	Message	Response Body		
200	OK	<pre> { "status": "PROCESSING" } </pre>		
400	Bad Request	<pre> { "code": "410202008", "message": "Invalid Parameter", "description": "The parameter citizen_pid is missing" } </pre>		
		<pre> { "code": "410202009", "message": "Invalid Parameter", "description": "The parameter provider is invalid" } </pre>		
		<pre> { "code": "410204016", "message": "Invalid Parameter", } </pre>		

{url}/v1/create/credential		
		"description": "The citizen already has a certificate with the free package" }
401	Unauthorized	{ "code": "900901", "message": "Invalid Credentials", "description": "Invalid Credentials. Make sure you have provided the correct security credentials" }
500	Internal Server Error	{ "code": "410400001", "message": "Internal Server Error", "description": "An unexpected error occurred on the server. Please try again later" }
		{ "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" }
503	Service Unavailable	{ "code": "410505004", "message": "CA Connection Error", "description": "Error establishing a connection to the Certificate Authority" }

2.4. Get Credential Status

This function used to retrieve the status of certificate registration and application modification requests.

GET - {url}/v1/get/credential/status

Request Header Parameters				
No	Name	Type	Presence	Description
1	Authorization	String	M	Bearer {access_token} (Access token is obtained from Authentication function which is defined in session 2.1).
2	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response message will be returned in the selected language. Available values: "en" "vi". Default: "en".
3	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Request Header Parameters				
No	Name	Type	Presence	Description
4	x-billcode-id	String	M	The bill code ID is generated by the RSS and is used to retrieve information related to the process.

Response Header Parameters				
No	Name	Type	Presence	Description
1	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
1	status	String	M	Describes the result if the request is successful.
2	code	String	A	Error code indicating the type of failure.
3	message	String	A	Short description of the error.
4	description	String	A	Detailed explanation of the kafka error.
5	data[citizen_pid]	String	M	Personal Identification Number.
6	data[description]	String	M	Detailed explanation of the error.
7	data[credential_id]	String	O	The identifier associated to the private key and corresponding certificate.
8	data[serial_number]	String	O	Serial number of the digital certificate.
9	data[certificate_data]	String	O	Raw certificate data (in base64 format).

Example

{url}/v1/get/credential/status		
HTTP Verb	GET	
Request Headers	Authorization	Bearer {access_token}
	x-billcode-id	string
Request Body		
Response Headers	x-rp-id	string

{url}/v1/get/credential/status		
Status Code	Message	Response Body
200	OK	<pre>{ "status": "PROCESSING", "data": { "request_type": number, "citizen_pid": "string" } }</pre>
		<pre>{ "status": "REJECTED", "data": { "request_type": number, "citizen_pid": "string" } }</pre>
		<pre>{ "status": "EXPIRED", "data": { "request_type": number, "citizen_pid": "string" } }</pre>
		<pre>{ "status": "NOT_VERIFIED", "data": { "request_type": number, "citizen_pid": "string" } }</pre>
		<pre>{ "status": "FAILED", "data": { "request_type": number, "citizen_pid": "string", "description": "string" } }</pre>
		<pre>{ "status": "SUCCESS", "data": { "request_type": number, "citizen_pid": "string", "credential_id": "string", "serial_number": "string", "certificate_data": "string", } }</pre>

{url}/v1/get/credential/status		
400	Bad Request	{ "code": "410204006", "message": "Invalid Parameter", "description": "The header x-billcode-id is missing" }
		{ "code": "410204007", "message": "Invalid Parameter", "description": "The header x-request-type is invalid" }
		{ "code": "410303013 ", "message": "Invalid Parameter", "description": "Transaction SP_CA_09940 already exists" }
401	Unauthorized	{ "code": "900901", "message": "Invalid Credentials", "description": "Invalid Credentials. Make sure you have provided the correct security credentials" }
500	Internal Server Error	{ "code": "410400001", "message": "Internal Server Error", "description": "An unexpected error occurred on the server. Please try again later" }
		{ "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" }
503	Service Unavailable	{ "code": "410505004", "message": "CA Connection Error", "description": "Error establishing a connection to the Certificate Authority" }

2.5. Get Certificates

This function used to return the list of digital certificates and related details for the user.

GET - {url}/v1/get/certificates

Request Header Parameters				
No	Name	Type	Presence	Description
1	Authorization	String	M	Bearer {access_token} (Access token is obtained from Authentication function which is defined in session 2.1).

Request Header Parameters				
No	Name	Type	Presence	Description
2	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response message will be returned in the selected language. Available values: "en" "vi". Default: "en".
3	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.
4	x-citizen-pid	String	M	Personal Identification Number.
5	x-certificate-info-enabled	Boolean	O	Returns the details of certificate information. This is useful in case the signature application wants to retrieve some details of the certificate without having to decode it first. The default value is "false", so if the parameter is omitted then the information will not be returned.
6	x-certificates	String	O	Specifies which certificates from the certificate chain shall be returned in certs/certificates. <ul style="list-style-type: none"> • "none": No certificate SHALL be returned. • "single": Only the end entity certificate SHALL be returned. • "chain": The full certificate chain SHALL be returned. The default value is "single", so if the parameter is omitted then the method will only return the end entity certificate.

Response Header Parameters				
No	Name	Type	Presence	Description
1	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.
2	x-billcode-id	String	M	The bill code ID is generated by the RSS and is used to retrieve information related to the process.

Response Parameters				
No	Name	Type	Presence in case 2xx	Description
1	code	String	A	Error code indicating the type of failure.
2	message	String	A	Short description of the error.
3	description	String	A	Detailed explanation of the error.
4	certificates[0][status]	String	O	Certificate Status "0": Locked. "1": Active. "2": Expired.
5	certificates[0][cert_chain]	String[]	M	An array of Base64-encoded X.509 certificates representing the certificate chain. The first element is the signer's certificate, followed by the digital certificate of the Certificate Authority (CA), and finally the root certificate.
6	certificates[0][serial_number]	String	M	Serial number of the digital certificate. This value will be returned when x-certificate-info-enable is "true".
7	certificates[0][credential_id]	String	M	The identifier associated to the private key and corresponding certificate.
8	certificates[0][issuer_dn]	String	M	The Issuer Distinguished Name from the X.509v3 end entity certificate as UTF-8-encoded character string. This value will be returned when x-certificate-info-enable is "true".
9	certificates[0][subject_dn]	String	M	The Subject Distinguished Name from the X.509v3 end entity certificate as UTF-8-encoded character string. This value will be returned when x-certificate-info-enable is "true".
10	certificates[0][valid_from]	String	M	The validity start date from the X.509v3 end entity certificate as character string, represented in ISO 8601 format using UTC time zone. This value will be returned when x-certificate-info-enable is "true".
11	certificates[0][valid_to]	String	M	The validity end date from the X.509v3 end entity certificate as character string, represented in ISO 8601 format using UTC time zone. This value will be returned when x-certificate-info-enable is "true".

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
12	key[status]	String	0	The status of the key used to generate the certificate.
13	key[algos]	String[]	0	List of OIDs for supported key algorithms. For example: <ul style="list-style-type: none"> 1.2.840.113549.1.1.1 = RSA encryption 1.2.840.10045.4.3.2 = ECDSA with SHA-256
14	key[len]	Integer	0	The length of the cryptographic key in bits.
15	key[curve]	String	0	The elliptic curve used in the key generation process for elliptic curve cryptography (ECC).

Example

{url}/v1/get/certificates		
HTTP Verb		GET
Request Headers		Authorization Bearer {access_token}
		x-citizen-pid string
Request Body		
Response Headers		x-billcode-id string
Status Code	Message	Response Body
200	OK	<pre>{ "certificates": [{ "status": "1", "credential_id": "string", "cert_chains": ["MIiakjfakurie2123=", "MIIGDTCCA/WgAwIBAgI=", "MIIG/="], "serial_number": "string", "subject_dn": "string", "issuer_dn": "string", "valid_from": "string", "valid_to": "string" }], "key": { "status": "string", "algos": [</pre>

{url}/v1/get/certificates		
		<pre> "string"], "len": 0, "curve": "string" } } </pre>
400	Bad Request	<pre> { "code": "410204007", "message": "Invalid Parameter", "description": "The header x-citizen-pid is invalid" } </pre>
401	Unauthorized	<pre> { "code": "900901", "message": "Invalid Credentials", "description": "Invalid Credentials. Make sure you have provided the correct security credentials" } </pre>
500	Internal Server Error	<pre> { "code": "410400001", "message": "Internal Server Error", "description": "An unexpected error occurred on the server. Please try again later" } </pre>
		<pre> { "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" } </pre>
503	Service Unavailable	<pre> { "code": "410505004", "message": "CA Connection Error", "description": "Error establishing a connection to the Certificate Authority" } </pre>

2.6. Sign Hash

This function used to digitally sign the provided hash data using the user's certificate.

POST - {url}/v1/sign/hash

Request Header Parameters				
No	Name	Type	Presence	Description
1	Authorization	String	M	Bearer {access_token} (Access token is obtained from Authentication function).
2	Content-Type	String	M	Specifies the media type of the request body. Value: "application/json"

Request Header Parameters				
No	Name	Type	Presence	Description
3	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.
4	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response message will be returned in the selected language. Available values: "en" "vi". Default: "en".

Request Parameters				
No	Name	Type	Presence	Description
1	platform	String	O	Specifies the client platform from which the request is initiated. This parameter is used to distinguish whether the calling client is a web application or a mobile application. Values: <ul style="list-style-type: none"> • "WEB" → Indicates that the request originates from a web-based client (e.g., browser). • "APP" → Indicates that the request originates from a mobile application (e.g., iOS or Android app). Default: WEB
2	credential_id	String	M	The identifier associated to the private key and corresponding certificate.
3	documents[document_name]	String	M	Document Name.
4	documents[digest_value]	String	M	Represents the hash value of the file to be signed.
5	postback_url	String	O	Sends transaction information to the RP after the process is completed.

Response Header Parameters				
No	Name	Type	Presence	Description
1	x-billcode-id	String	M	The bill code ID is generated by the RSS and is used to retrieve information related to the process.

Response Header Parameters				
No	Name	Type	Presence	Description
2	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
1	data[status]	String	M	Describes the result if the request is successful.
2	data[signatures]	String[]	O	The signature in Base64 format, corresponding to the digestValue.
3	code	String	A	Code describes the result.
4	message	String	A	Message describes the result.
5	description	String	A	Message describes the result in detail.

Example

{url}/v1/sign/hash		
HTTP Verb	POST	
Request Headers	Authorization	Bearer {access_token}
	Content-Type	application/json
	x-language	vi
Request Body	<pre>{ "operation_mode": "string", "credential_id": "string", "documents": [{ "document_name": "string", "digest_value": "string" }] }</pre>	
Response Headers	x-billcode-id	string
Status Code	Message	Response Body
200	OK	<pre>{ "status": "PROCESSING" }</pre>

{url}/v1/sign/hash		
		<pre>"status": "REJECTED" } { "status": "EXPIRED" } { "status": "SUCCESS", "data": { "signatures": ["AfOKfI2lQiafmtXKq2VzFBJu9M/"] } }</pre>
400	Bad Request	<pre>{ "code": "410204008", "message": "Invalid Parameter", "description": "The parameter credential_id is missing" }</pre>
		<pre>{ "code": "410202009", "message": "Invalid Parameter", "description": "The parameter operation_mode is invalid" }</pre>
		<pre>{ "code": "410202017", "message": "Invalid Parameter", "description": "The certificate has not been verified yet" }</pre>
		<pre>{ "code": "410202018", "message": "Invalid Parameter", "description": "The digital certificate has expired" }</pre>
401	Unauthorized	<pre>{ "code": "900901", "message": "Invalid Credentials", "description": "Invalid Credentials. Make sure you have provided the correct security credentials" }</pre>
409	Conflict	<pre>{ "code": "410403019", "message": "Request Conflict", "description": "Your previous request is still being processed" }</pre>
500	Internal Server Error	<pre>{ "code": "410400001", "message": "Internal Server Error", "description": "An unexpected error occurred on the server. Please try again later" }</pre>
		<pre>{ "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" }</pre>

{url}/v1/sign/hash		
		}
503	Service Unavailable	{ "code": "410505004", "message": "CA Connection Error", "description": "Error establishing a connection to the Certificate Authority" }

2.7. Get Signing Status

This function used to retrieve the result and status of a previously requested digital signing operation.

GET - {url}/v1/get/signing/status

Request Header Parameters				
No	Name	Type	Presence	Description
1	Authorization	String	M	Bearer {access_token} (Access token is obtained from Authentication function which is defined in session 2.1).
2	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response message will be returned in the selected language. Available values: "en" "vi". Default: "en".
3	x-billcode-id	String	M	The bill code ID is generated by the RSS and is used to retrieve information related to the process.
4	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Header Parameters				
No	Name	Type	Presence	Description
1	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Parameters				
No	Name	Type	Presence in case 2xx	Description
1	status	String	M	Describes the result if the request is successful.
2	code	String	A	Error code indicating the type of failure.
3	message	String	A	Short description of the error.
4	description	String	A	Detailed explanation of the error.
5	data[signatures]	String[]	O	Serial number of the digital certificate.
6	data[description]	String	M	Detailed explanation of the error.

Example

<code>{url}/v1/get/signing/status</code>		
HTTP Verb		GET
Request Headers		Authorization: Bearer {access_token}
		x-billcode-id: SP_CA_09940
Request Body		
Status Code	Message	Response Body
200	OK	{ "status": "PROCESSING" }
		{ "status": "REJECTED" }
		{ "status": "EXPIRED" }
		{ "status": "FAILED", "data": { "description": "string" } }
		{ "status": "SUCCESS", "data": { "signatures": ["AfOKfI2lQiafmtXKq2VzFBJu9M/"] } }
400	Bad Request	{ "code": "410204006", "message": "Invalid Parameter", "description": "The header x-billcode-id is missing" }

{url}/v1/get/signing/status		
		} { "code": "410303013 ", "message": "Invalid Parameter", "description": "Transaction SP_CA_09940 is invalid" }
401	Unauthorized	{ "code": "900901", "message": "Invalid Credentials", "description": "Invalid Credentials. Make sure you have provided the correct security credentials" }
500	Internal Server Error	{ "code": "410400001", "message": "Internal Server Error", "description": "An unexpected error occurred on the server. Please try again later" }
		{ "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" }
503	Service Unavailable	{ "code": "410505004", "message": "CA Connection Error", "description": "Error establishing a connection to the Certificate Authority" }

2.8. Initiate Data Sharing

This function used to sends a request to the VNeID platform to prompt the citizen for consent to share personal identification information.

POST - {url}/v1/request/citizen/identity-sharing

Request Header Parameters				
No	Name	Type	Presence	Description
1	Authorization	String	M	Bearer {access_token} (Access token is obtained from Authentication function).
2	Content-Type	String	M	Specifies the media type of the request body. Value: "application/json"
3	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Request Header Parameters				
No	Name	Type	Presence	Description
4	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response message will be returned in the selected language. Available values: "en" "vi". Default: "en".

Request Parameters				
No	Name	Type	Presence	Description
1	citizen_pid	String	M	Personal Identification Number.
2	request_time	String	O	The request time Format: ddMMyyyyHHmmss Ex: 24072025100223
3	target_code	String	M	Target code: <ul style="list-style-type: none"> • update-info-web • update-info-app
4	postback_url	String	O	Sends transaction information to the RP after the process is completed.

Response Header Parameters				
No	Name	Type	Presence	Description
1	x-billcode-id	String	M	The bill code ID is generated by the RSS and is used to retrieve information related to the process.
2	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
1	status	String	M	Describes the result if the request is successful.

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
2	data[transaction_code]	String	M	The transaction code that was returned when the initial request was successfully created.
3	data[response_time]	String[]	O	The result response time Format: ddMMyyyyHHmmss Ex: 24072025100223
4	code	String	A	Code describes the result.
5	message	String	A	Message describes the result.
6	description	String	A	Message describes the result in detail.

Example

{url}/v1/request/citizen/identity-sharing		
HTTP Verb		POST
Request Headers		Authorization Bearer {access_token}
		Content-Type application/json
		x-language en
Request Body		{ "citizen_pid": "string", "target_code": "string", "request_time": "string", }
Response Headers		x-billcode-id string
Status Code	Message	Response Body
200	OK	{ "status": "PROCESSING", "data": { "transaction_code": "string", "response_time": "string" } }
400	Bad Request	{ "code": "410202008", "message": "Invalid Parameter", "description": "The parameter citizen_pid is missing" }
401	Unauthorized	{ "code": "900901", "message": "Invalid Credentials", "description": "Invalid Credentials. Make sure you have provided the correct security credentials" }

{url}/v1/request/citizen/identity-sharing		
		} {
500	Internal Server Error	{ "code": "410400001", "message": "Internal Server Error", "description": "An unexpected error occurred on the server. Please try again later" }
		{ "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" }
503	Service Unavailable	{ "code": "410505004", "message": "CA Connection Error", "description": "Error establishing a connection to the Certificate Authority" }

2.9. Get Data Sharing Result

This function used to retrieve the result and status of a previously requested data sharing.

The transactionId will expire 30 minutes after the successful confirmation by the citizen on the VNeID platform. Within this 30-minute period, the data can be retrieved up to a maximum of three times. After this timeframe, the shared citizen data will no longer be available.

GET - {url}/v1/get/citizen/identity-sharing

Request Header Parameters				
No	Name	Type	Presence	Description
1	Authorization	String	M	Bearer {access_token} (Access token is obtained from Authentication function which is defined in session 2.1).
2	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response message will be returned in the selected language. Available values: "en" "vi". Default: "en".
3	x-transaction-code	String	M	The transaction code that was returned when the initial request was successfully created.
4	x-request-time	String	O	The request time Format: ddMMyyyyHHmmss Ex: 24072025100223
5	x-target-code	String	M	Target code: • update-info-web.

Request Header Parameters				
No	Name	Type	Presence	Description
				<ul style="list-style-type: none"> update-info-app
6	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Header Parameters				
No	Name	Type	Presence	Description
1	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
1	status	String	M	Describes the result if the request is successful.
2	code	String	A	Error code indicating the type of failure.
3	message	String	A	Short description of the error.
4	description	String	A	Detailed explanation of the error.
5	data[description]	String	O	Detailed explanation of the error.
6	data[response_time]	String	O	The response time Format: ddMMyyyyHHmmss Ex: 24072025100223
7	data[user_info_token]	String	M	the base64-encoded format follows the JWS standard with the structure: <header>.<payload>.<signature>
8	data[user_info][full_name]	String	O	Full Name of Citizen.
9	data[user_info][birthday]	String	O	Date of Birth of Citizen.
10	data[user_info][citizen_pid]	String	O	Personal Identification Number.
11	data[user_info][date_of_issue]	String	O	Date of Issue of Citizen Identification Card.
12	data[user_info][id_card_expire_date]	String	O	Id card expire date.

Example

{url}/v1/get/citizen/identity-sharing			
HTTP Verb		GET	
Request Headers		Authorization	Bearer {access_token}
		x-billcode-id	SP_CA_09940
Request Body			
Status Code	Message	Response Body	
200	OK	{ "status": "PROCESSING" }	
		{ "status": "REJECTED" }	
		{ "status": "EXPIRED" }	
		{ "status": "FAILED", "data": { "description": "string" } }	
		{ "status": "SUCCESS", "data": { "user_info_token": "string", "user_info": { "living_place_city_text": "string", "living_place_district_text": "string", "gender_code": "string", "permanent_city_text": "string", "permanent_district_text": "string", "permanent_village_text": "string", "living_place_village_text": "string", "citizen_pid": "string", "full_name": "string", "birth_date": "string", "permanent_city_code": "string", "permanent_district_code": "string", "permanent_village_code": "string", "permanent_address": "string", "living_place_city_code": "string", "living_place_district_code": "string", "living_place_village_code": "string", "living_place_address": "string", "date_of_issue": "string", "id_card_expire_date": "string" }, "response_time": "string" } }	

{url}/v1/get/citizen/identity-sharing		
		}
400	Bad Request	{ "code": "410204006", "message": "Invalid Parameter", "description": "The header x-billcode-id is missing" }
		{ "code": "410303013 ", "message": "Invalid Parameter", "description": "Transaction SP_CA_09940 is invalid" }
401	Unauthorized	{ "code": "900901", "message": "Invalid Credentials", "description": "Invalid Credentials. Make sure you have provided the correct security credentials" }
500	Internal Server Error	{ "code": "410400001", "message": "Internal Server Error", "description": "An unexpected error occurred on the server. Please try again later" }
		{ "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" }
503	Service Unavailable	{ "code": "410505004", "message": "CA Connection Error", "description": "Error establishing a connection to the Certificate Authority" }

2.10. Query Transactions

This API is used to retrieve and export transactions for monitoring and tracking purposes.

GET - [{url}/v1/get/transactions](#)

Request Header Parameters				
No	Name	Type	Presence	Description
1	Authorization	String	M	Bearer {access_token} (Access token is obtained from Authentication function which is defined in session 2.1).
2	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response

Request Header Parameters				
No	Name	Type	Presence	Description
				message will be returned in the selected language. Available values: "en" "vi". Default: "en".
3	x-citizen-pid	String	O	Citizen Identification Number used to filter transactions of a specific citizen.
4	x-relying-party-name	String	O	Name of the relying party that initiated the transaction.
5	x-service-name	String	O	Name of the service associated with the transaction.
6	x-from-date	Instant	O	Start date/time of the transaction creation range. Format: "YY-MM-DDTHH:mm:ssZ" (UTC).
7	x-to-date	Instant	O	End date/time of the transaction creation range. Format: "YY-MM-DDTHH:mm:ssZ" (UTC).
8	x-page-no	Integer	O	Indicates the page number for paginated data retrieval. Default: 1
9	x-records-per-page	Integer	O	Specifies the number of records to retrieve per page for paginated results. Default: 10
10	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Header Parameters				
No	Name	Type	Presence	Description
1	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.
2	x-total-records	Integer	M	Specifies the total number of records the server will return

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
1	status	String	O	Describes the result if the request is successful.

Response Parameters				
No	Name	Type	Presence in case 2xx	Description
2	code	String	A	Error code indicating the type of failure.
3	message	String	A	Short description of the error.
4	description	String	A	Detailed explanation of the error.
5	data[citizen_pid]	String	M	Citizen Identification Number associated with the transaction.
6	data[relying_party_name]	String	M	Name of the relying party initiating the transaction.
7	data[third_party_name]	String	M	Name of the integrated third party (if applicable).
8	data[created_at]	Instant	M	Timestamp when the transaction was created.
9	data[bill_code]	String	M	Unique bill/transaction identifier used for tracking and reconciliation.
10	data[service_name]	String	M	Name of the executed service.
11	data[http_code]	String	M	HTTP status code returned by the transaction (e.g., 200, 400, 500).
12	data[request]	String	M	Raw request body sent during the transaction (stored as JSON string).
13	data[request_header]	String	M	Raw HTTP request headers (stored as JSON string).
14	data[response]	String	M	Raw response body returned by the service (stored as JSON string).
15	data[response_header]	String	M	Raw HTTP response headers (stored as JSON string).

Example

<code>{url}/v1/get/transactions</code>		
HTTP Verb		GET
Request Headers		Authorization: Bearer {access_token}
		x-citizen-pid: 353235235235
Request Body		
Response Headers		x-billcode-id: string
Status Code	Message	Response Body
200	OK	{ "data": [

{url}/v1/get/transactions		
		<pre> { "citizen_pid": "353235235235", "relying_party_name": "SIGNING_SERVICE", "third_party_name": "VNEID", "created_at": "2026-02-06T02:20:19Z", "bill_code": "019c3240-76fc-7000-bfe1-4c696153bc7f", "service_name": "initDataSharing", "http_code": "200", "request": "string", "request_header": "string", "response": "string", "response_header": "string" }] </pre>
400	Bad Request	<pre> { "code": "410204006", "message": "Invalid Parameter", "description": "The header x-citizen-pid is invalid" } </pre>
401	Unauthorized	<pre> { "code": "900901", "message": "Invalid Credentials", "description": "Invalid Credentials. Make sure you have provided the correct security credentials" } </pre>
500	Internal Server Error	<pre> { "code": "410400001", "message": "Internal Server Error", "description": "An unexpected error occurred on the server. Please try again later" } </pre>
		<pre> { "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" } </pre>
503	Service Unavailable	<pre> { "code": "410505004", "message": "CA Connection Error", "description": "Error establishing a connection to the Certificate Authority" } </pre>

2.11. Get Rp Universal link

This API is used to retrieve the relying party (RP) information and its universal link based on a given transaction code.

When a valid transaction code is provided, the system identifies the RP that executed the transaction and returns its associated universal link.

This universal link can be used for redirection, deep linking, or completing transaction-related flows.

GET - {url}/v1/get/rp/universal-link

Request Header Parameters				
No	Name	Type	Presence	Description
1	Authorization	String	M	Bearer {access_token} (Access token is obtained from Authentication function which is defined in session 2.1).
2	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response message will be returned in the selected language. Available values: "en" "vi". Default: "en".
3	x-transaction-code	String	M	Unique transaction identifier used to determine the relying party that performed the transaction.
4	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Header Parameters				
No	Name	Type	Presence	Description
1	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
1	code	String	A	Error code indicating the type of failure.
2	message	String	A	Short description of the error.
3	description	String	A	Detailed explanation of the error.
4	data[rp_id]	String	M	Unique identifier of the relying party that executed the transaction.
5	data[rp_name]	String	M	Name of the relying party.
6	data[universal_link]	String	M	Universal link configured for the relying party, used for redirection or deep linking.

Example

{url}/v1/get/rp/universal-link		
HTTP Verb		GET
Request Headers		Authorization Bearer {access_token}
		x-transaction-code SP_CA_09940
Request Body		
Response Headers		x-billcode-id string
Status Code	Message	Response Body
200	OK	<pre>{ "data": { "rp_id": "019744b1-75c6-7a4f-8869-0b2093d42c82", "rp_name": "SIGNING_SERVICE", "universal_link": "https://example.com/universal-link" } }</pre>
400	Bad Request	<pre>{ "code": "410204006", "message": "Invalid Parameter", "description": "The header x-transaction-code is missing" }</pre>
		<pre>{ "code": "410303013 ", "message": "Invalid Parameter", "description": "Transaction SP_CA_09940 is invalid" }</pre>
401	Unauthorized	<pre>{ "code": "900901", "message": "Invalid Credentials", "description": "Invalid Credentials. Make sure you have provided the correct security credentials" }</pre>
500	Internal Server Error	<pre>{ "code": "410400001", "message": "Internal Server Error", "description": "An unexpected error occurred on the server. Please try again later" }</pre>
		<pre>{ "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" }</pre>
503	Service Unavailable	<pre>{ "code": "410505004", "message": "CA Connection Error", "description": "Error establishing a connection to the Certificate Authority" }</pre>

```
{url}/v1/get/rp/universal-link
```

2.12. Get Tax Information

This API is used to retrieve tax information of a citizen or organization based on the provided tax code.

When the API is called, a consent request will be displayed on the VNeID application, asking the user to approve the sharing of their tax information.

GET - {url}/v1/get/tax/information

Request Header Parameters

No	Name	Type	Presence	Description
1	Authorization	String	M	Bearer {access_token} (Access token is obtained from Authentication function which is defined in session 2.1).
2	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response message will be returned in the selected language. Available values: "en" "vi". Default: "en".
3	x-tax-code	String	M	Tax identification code used to request tax information.
4	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.
5	x-require-user-confirm	Boolean	O	Specifies whether user confirmation on the VNeID application is required during the data sharing process. If set to false, the confirmation step will be skipped. Default: false
6	x-operation-mode	String	O	Specifies the processing mode for retrieving tax information. S - The request is processed synchronously. The API will wait for the result and return the tax information directly in the same response. A - The request is processed asynchronously. Once the processing is completed, the result will be sent to the client's callback endpoint specified in the x-callback-url header. Default "S"

Request Header Parameters				
No	Name	Type	Presence	Description
7	x-callback-url	String	O	The url to which the system will send the callback response after the asynchronous request is fully processed. This field is only applicable when x-operation-mode = "A".

Response Header Parameters				
No	Name	Type	Presence	Description
1	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
1	status	String	O	Describes the result if the request is successful.
2	code	String	A	Error code indicating the type of failure.
3	message	String	A	Short description of the error.
4	description	String	A	Detailed explanation of the error.
5	tax_informations[0][owner_information][full_name]	String	O	Full name of owner.
6	tax_informations[0][owner_information][gender]	String	O	The gender of owner.
7	tax_informations[0][owner_information][date_of_birth]	String	O	The birth date of owner.
8	tax_informations[0][owner_information][ethnicity]	String	O	The ethnicity of owner.
9	tax_informations[0][owner_information][nationality]	String	O	The nationality of owner.
10	tax_informations[0][owner_information][id_card_number]	String	O	ID card number/citizen identification card.
11	tax_informations[0][owner_information][permanent_address]	String	O	Owner's permanent address.

Response Parameters				
No	Name	Type	Presence in case 2xx	Description
12	tax_informations[0][owner_information][address]	String	O	Address of owner.
13	tax_informations[0][owner_information][official_name]	String	O	The official registered name of the owner as recorded in the legal or tax registration system.
14	tax_informations[0][owner_information][registration_number]	String	O	The registration number of the owner, as issued by the relevant authority for legal or tax identification purposes.
15	tax_informations[0][legal_representative_information][full_name]	String	O	Full name of legal representative.
16	tax_informations[0][legal_representative_information][gender]	String	O	The gender of legal representative.
17	tax_informations[0][legal_representative_information][date_of_birth]	String	O	The birth date of legal representative.
18	tax_informations[0][legal_representative_information][ethnicity]	String	O	The ethnicity of legal representative.
19	tax_informations[0][legal_representative_information][nationality]	String	O	The nationality of legal representative.
20	tax_informations[0][legal_representative_information][id_card_number]	String	O	ID card number/citizen identification card.
21	tax_informations[0][legal_representative_information][title]	String	O	The official title or role of the legal representative within the organization.
22	tax_informations[0][legal_representative_information][permanent_address]	String	O	Permanent residence address of the legal representative.
23	tax_informations[0][legal_representative_information][address]	String	O	Address of legal representative .
24	tax_informations[0][company_information][official_name]	String	M	Official name of the company.

Response Parameters				
No	Name	Type	Presence in case 2xx	Description
25	tax_informations[0][company_information][english_name]	String	O	English name of the company.
26	tax_informations[0][company_information][short_name]	String	O	Short name of the company.
27	tax_informations[0][company_information][address]	String	O	Address of the company.
28	tax_informations[0][company_information][phone]	String	O	Contact phone number of the company.
29	tax_informations[0][company_information][email]	String	O	Official email address of the company.
30	tax_informations[0][company_information][fax]	String	O	Fax number of the company.
31	tax_informations[0][company_information][website]	String	O	Official website of the company.
32	tax_informations[0][company_information][charter_capital]	String	O	Charter capital of the company.
33	tax_informations[0][company_information][tax_code]	String	M	Tax code of the company.
34	tax_informations[0][company_information][tax_state]	String	O	Tax status.
35	tax_informations[0][company_information][business_license_issuance_place]	String	O	Business license issuance place.
36	tax_informations[0][company_information][operation_start_date]	String	M	Operation start date.
37	tax_informations[0][owner_informations][0][full_name]	String	O	Full name of owner.
38	tax_informations[0][owner_informations][0][id_card_number]	String	O	ID card number/citizen identification card.
39	tax_informations[0][owner_informations][0][gender]	String	O	The gender of owner.
40	tax_informations[0][owner_informations][0][date_of_birth]	String	O	The birth date of owner.

Response Parameters				
No	Name	Type	Presence in case 2xx	Description
41	tax_informations[0][owner_informations][0][ethnicity]	String	0	The ethnicity of owner.
42	tax_informations[0][owner_informations][0][nationality]	String	0	The nationality of owner.
43	tax_informations[0][owner_informations][0][title]	String	0	The official title or role of the legal representative within the organization.
44	tax_informations[0][owner_informations][0][permanent_address]	String	0	Owner's permanent address.
45	tax_informations[0][owner_informations][0][address]	String	0	Address of owner.
46	tax_informations[0][owner_informations][0][official_name]	String	0	The official registered name of the owner as recorded in the legal or tax registration system.
47	tax_informations[0][owner_informations][0][registration_number]	String	0	The registration number of the owner, as issued by the relevant authority for legal or tax identification purposes.
48	tax_informations[0][legal_representative_informations][0][full_name]	String	0	Full name of legal representative.
49	tax_informations[0][legal_representative_informations][0][id_card_number]	String	0	ID card number/citizen identification card.
50	tax_informations[0][legal_representative_informations][0][gender]	String	0	The gender of legal representative.
51	tax_informations[0][legal_representative_informations][0][date_of_birth]	String	0	The birth date of legal representative.
52	tax_informations[0][legal_representative_informations][0][ethnicity]	String	0	The ethnicity of legal representative.
53	tax_informations[0][legal_representative_informations][0][nationality]	String	0	The nationality of legal representative.
54	tax_informations[0][legal_representative_informations][0][title]	String	0	The official title or role of the legal representative within the organization.

Response Parameters				
No	Name	Type	Presence in case 2xx	Description
55	tax_informations[0][legal_representative_informations][0][permanent_address]	String	O	Owner's permanent address.
56	tax_informations[0][legal_representative_informations][0][address]	String	O	Address of legal representative.
57	tax_informations[0][capital_contributors][member_name]	String	O	Name of contributing member.
58	tax_informations[0][capital_contributors][residence_or_head_office]	String	O	The member's principal place of residence or business.
59	tax_informations[0][capital_contributors][capital_value_vnd]	String	O	The contributed capital value of the capital contributor, expressed in Vietnamese Dong (VND).
60	tax_informations[0][capital_contributors][percentage]	String	O	The ownership percentage of the capital contributor in the total charter capital.
61	tax_informations[0][capital_contributors][legal_identifier]	String	O	Member's legal identifier.
62	tax_informations[0][capital_contributors][share_holdings][0][type_of_shares]	String	O	The type or category of shares held by the contributor.
63	tax_informations[0][capital_contributors][share_holdings][0][number_of_shares]	String	O	The total number of shares owned by the contributor.
64	tax_informations[0][capital_contributors][share_holdings][0][capital_value_vnd]	String	O	The monetary value of the contributed capital, expressed in Vietnamese Dong (VND).
65	tax_informations[0][capital_contributors][share_holdings][0][percentage]	String	O	The ownership percentage represented by the shares held.
66	tax_informations[0][source_information][alias]	String	M	Alias of source information.

Example

{url}/v1/get/tax/information		
HTTP Verb	GET	
Request Headers	Authorization	Bearer {access_token}
	x-billcode-id	0313994173

{url}/v1/get/tax/information		
Request Body		
Response Headers		x-billcode-id string
Status Code	Message	Response Body
		{ "status": "PROCESSING" }
		{ "status": "REJECTED" }
		{ "status": "EXPIRED" }
		{ "status": "FAILED", "data": { "description": "string" } }
		{ "tax_informations": [{ "owner_information": {}, "legal_representative_information": { "full_name": "PHẠM XUÂN KHÁNH", "gender": "Nam", "date_of_birth": "16/03/1980", "ethnicity": "Kinh", "nationality": "Việt Nam", "id_card_number": "048080000061", "title": "Chủ tịch hội đồng quản trị", "permanent_address": "1/11/74 Đặng Thùy Trâm, Phường Bình Lợi Trung, Thành phố Hồ Chí Minh, Việt Nam", "address": "1/11/74 Đặng Thùy Trâm, Phường Bình Lợi Trung, Thành phố Hồ Chí Minh, Việt Nam" }, "company_information": { "official_name": "CÔNG TY CỔ PHẦN CÔNG NGHỆ VÀ DỊCH VỤ MOBILE-ID", "english_name": "MOBILE-ID TECHNOLOGIES AND SERVICES JOINT STOCK COMPANY", "short_name": "MOBILE-ID", "address": "Địa chỉ trụ sở chính: 1/11/74 Đặng Thùy Trâm , Phường Bình Lợi Trung, Thành phố Hồ Chí Minh, Việt Nam", "phone": "+(84)28 3622 2982", "email": "info@mobile-id.vnwww.mobile-id.vn", "fax": "+(84)28 3622 2983", "tax_code": "0313994173", "business_license_issuance_place": "Phòng ĐKKD Thành phố Hồ Chí Minh", "operation_start_date": "05/09/2016" }] }

{url}/v1/get/tax/information		
		<pre> }, "owner_informations": [], "legal_representative_informations": [{ "full_name": "PHẠM XUÂN KHÁNH", "gender": "Nam", "date_of_birth": "16/03/1980", "ethnicity": "Kinh", "nationality": "Việt Nam", "id_card_number": "048080000061", "title": "Chủ tịch hội đồng quản trị", "permanent_address": "1/11/74 Đặng Thùy Trâm, Phường Bình Lợi Trung, Thành phố Hồ Chí Minh, Việt Nam", "address": "1/11/74 Đặng Thùy Trâm, Phường Bình Lợi Trung, Thành phố Hồ Chí Minh, Việt Nam" }], "capital_contributors": [], "source_information": { "alias": "DVTT" } }] } </pre>
400	Bad Request	<pre> { "code": "410204006", "message": "Invalid Parameter", "description": "The header x-tax-code is missing" } </pre>
		<pre> { "code": "410303013 ", "message": "Invalid Parameter", "description": "Tax code 0313994173 is invalid" } </pre>
401	Unauthorized	<pre> { "code": "900901", "message": "Invalid Credentials", "description": "Invalid Credentials. Make sure you have provided the correct security credentials" } </pre>
500	Internal Server Error	<pre> { "code": "410400001", "message": "Internal Server Error", "description": "An unexpected error occurred on the server. Please try again later" } </pre>
		<pre> { "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" } </pre>

{url}/v1/get/tax/information		
503	Service Unavailable	{ "code": "410505004", "message": "CA Connection Error", "description": "Error establishing a connection to the Certificate Authority" }

2.13. Reload System

This function is designed for back-office administrators to update changes from the server. It refreshes the information provided by the system, ensuring the latest data is retrieved and updated.

POST - {url}/v1/reload/system

Request Header Parameters				
No	Name	Type	Presence	Description
1	Authorization	String	M	Bearer {access_token} (Access token is obtained from Authentication function which is defined in session 2.1).
2	Content-Type	String	M	Specifies the media type of the request body. Value: "application/json"
3	x-cache-component	String	M	The cache component will be loaded. Ex: "All"
4	x-language	String	O	A language code based on the ISO 639-1 standard. This field specifies the preferred language of the user. The response message will be returned in the selected language. Available values: "en" "vi". Default: "en".
5	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Header Parameters				
No	Name	Type	Presence incase 2xx	Description
1	x-billcode-id	String	M	The bill code ID is generated by the RSS and is used to retrieve information related to the process.
2	x-rp-id	String	O	This ID is generated by the RP and is used for future reference in case of any inquiries or requests.

Response Parameters				
No	Name	Type	Presence incase 2xx	Description
1	code	String	A	Code describes the result.
2	message	String	A	Message describes the result.
3	description	String	A	Message describes the result in detail.

Example

{url}/v1/reload/system		
HTTP Verb		POST
Request Headers		Authorization Bearer {access_token}
		Content-Type application/json
		x-cache-component ResponseCode
Request Body		
Response Headers		x-billcode-id string
Status Code	Message	Response Body
204	No Content	
401	Unauthorized	{ "code": "900901", "message": "Invalid Credentials", "description": "Invalid Credentials. Make sure you have provided the correct security credentials" }
403	Forbidden	{ "code": "410100003", "message": "Forbidden", "description": "Access to the requested resource is denied" }
500	Internal Server Error	{ "code": "410400001", "message": "Internal Server Error", "description": "An unexpected error occurred on the server. Please try again later" }
		{ "code": "410400002", "message": "Unknown exception", "description": "An unknown error occurred" }

3. KeyWord Reference

3.1. Cache Components

Notation	Description
ThirdParty	This component represents external (third-party) systems or services that the system integrates with or interacts with.
ResponseCode	This component manages the response codes returned by the system or associated services.

4. Result Codes And Message

1	Message	Description
0	Success	Success
410400001	Internal Server Error	An unexpected error occurred on the server. Please try again later
410400002	Unknown Exception	An unknown error occurred
410100003	Forbidden	Access to the requested resource is denied
410505004	CA Connection Error	Error establishing a connection to the Certificate Authority
410505005	Kafka Connection Error	Error establishing a connection to Kafka
410204006	Invalid Parameter	The header {0} is missing
410204007	Invalid Parameter	The header {0} is invalid
410204008	Invalid Parameter	The parameter {0} is missing
410204009	Invalid Parameter	The parameter {0} is invalid
410202010	Invalid Parameter	No certificate was found
410202011	Invalid Parameter	No credential match serial number
410303012	Invalid Parameter	Transaction {0} already exists
410303013	Invalid Parameter	The transaction {0} could not be found
410505014	RP Connection Error	Error establishing a connection to RP, please check the posstback url
410202015	Invalid Parameter	User {0} was not found
410204016	Invalid Parameter	The citizen already has a certificate with the free package!
410202017	Invalid Parameter	The certificate has not been verified yet
410202018	Invalid Parameter	The digital certificate has expired
410403019	Request Conflict	Your previous request is still being processed
410202020	Invalid Parameter	The account is not associated with any CA
410600021	Not Found	The requested path does not exist: { }
410502022	Invalid Parameter	provider not valid (disabled)
410202023	Invalid Parameter	citizen_id not existed
410202024	Invalid Parameter	cert status invalid
410202025	Invalid Parameter	The Certificate is invalid. Please register a new Digital Signature Certificate!
410202026	Invalid Parameter	The citizen has a digital signature certificate that has not been activated!
410202027	Invalid Parameter	The citizen does not have any valid digital signature certificates.
410304028	Invalid Parameter	Unable to retrieve information. The citizen has declined to share their data.
410202029	Request Conflict	The username or email address is already in use