



**VIETTEL TELECOM CORPORATION
INFORMATION TECHNOLOGY DIVISION**



**INTEGRATED API SPECIFICATION DOCUMENT
VCONTRACT ELECTRONIC CONTRACT SYSTEM**

<T Internal circulation documents >

Version v1.0.8

CHANGE RECORD

*A – Add, M – Modify, D – Delete

Date of change	Location of change	A*, M, D	Source	Old version	Description of changes	New version
03/03/2023	Toàn bộ	A			Create document	V1.0.0
03/03/2023	III.2	A			API specification for sending contract results	V1.0.1
06/03	III	M			Add processing flow description	
28/03	III	M			Edit Content-Type when uploading files	V1.0.4
06/10	III.2 III.10	M			Modify API to push customer information and contracts: Add customer code and SMS sending flow for new customers	V1.0.5
31/10	III.2 III.12 III.13 III.14	M			Add input ContractTemplateDTO to create contract from Template Add new API to get list of Contract Templates Add new API to get detailed information of Contract Templates Add new API to download contract template file	V1.0.6
28/11	III				Add API login to select version when logging in Edit the Authorization header Assign signatures to users for approval using CTS	V1.0.7
01/04/2024	II.13 III.15				Add Contract Delete API.	V1.0.8
3/5/2024	III.2				Add more configuration to display signature image for	V1.0.9

					contract creation api	
07/06/2024	III.2				Create customer with duplicate customer code	V1.0.10
03/07/2024	III.2, III.10, III.11, IV.1, IV.2				Add affiliate contract information to the request to create a contract + notify the result of creating a contract	V1.0.11

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SIGNATURE PAGE

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<Title>

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Approved by: _____ < Date > _____
< Title >

I. INTRODUCTION

1. Status

The mass vContract system is running, we want to apply this system to the automatic signature flow for Viettel's partners.

2. Purpose

- Add automatic signing API to push from integrated systems to vContract and perform signature flow and return connection results.
- Edit and split services into microservices.

3. Document users

- *Viettel's partner systems use automatic signature flow to connect to vContract.*

II. OVERVIEW OF CONNECTION MODEL

The partner system and vContract communicate through 2 main flows:

- Partner calls API to vContract (detailed description of APIs in section III)
- vContract calls callback to Partner System (detailed description of APIs in section IV)

The agents described in the document include:

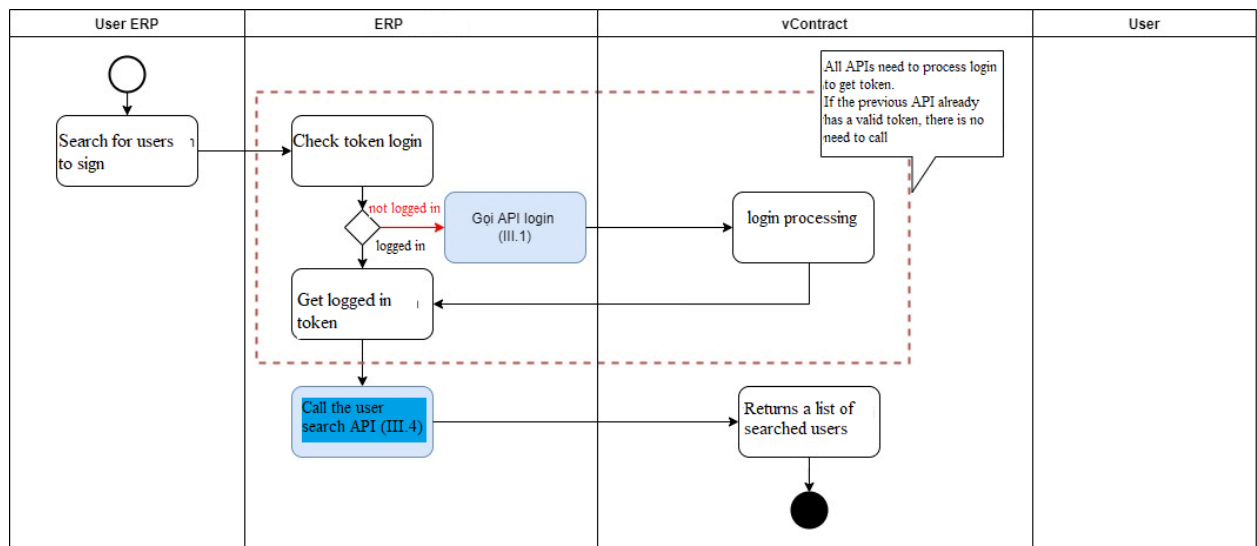
- User ERP: Users of partner systems who want to integrate with vContract.
- ERP (Establishing party: The system that wants to integrate with vContract (the party that creates the contract).
- vContract: Electronic contract system.
- User: Users operate on the electronic contract system.

Details as follows:

1. User search flow

Description: Search for users on the partner system who want to integrate (EPR), used to add users EPR to the contract signature flow.

Details: The user search API is specified in the section III.4



Note:

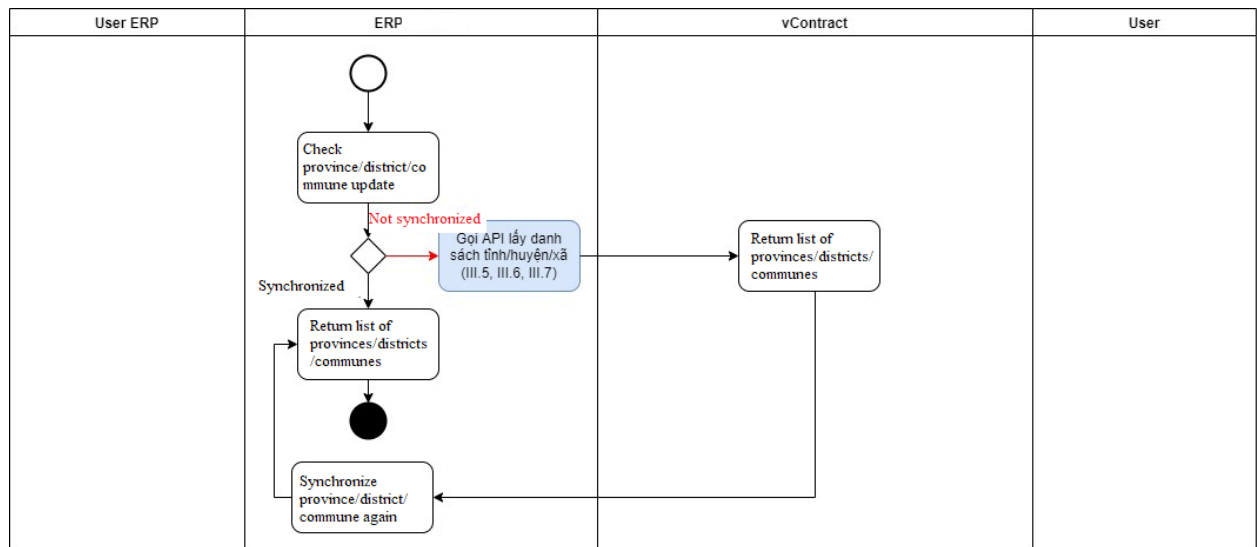
- API flows calling vContract all require a token before making a call.
- The API login specification to get the token is described in the section III.1

2. Flow to get information of province/district/commune

Description: Synchronize the list of provinces/districts/communes from vContract, use this data for contract creation.

Details:

- API retrieves the list of province at **III.5**
- API retrieves the list of district at **III.6**
- API retrieves the list of commune at **III.7**



3. Contract creation flow

Description: Push contract requests via vContract.

Details: Contract creation flow is as follows:

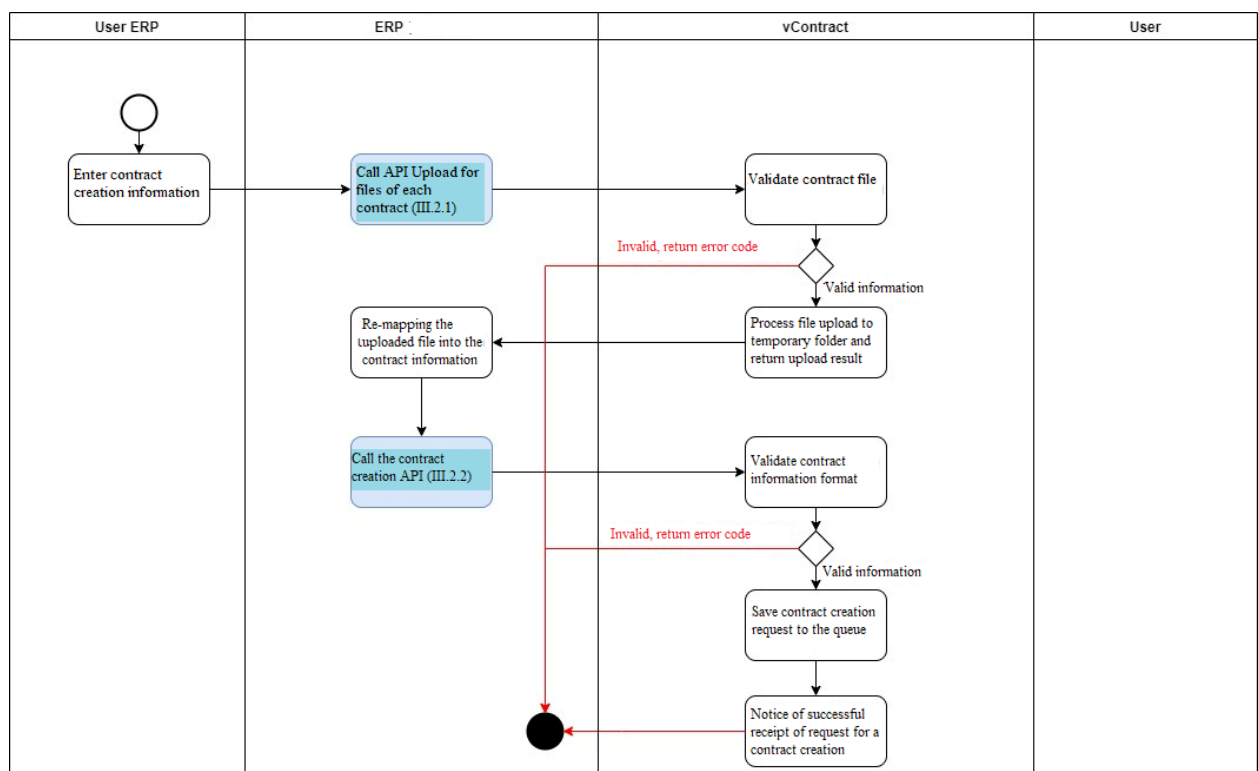
Step 1: Call the API to upload files of each contract (API Description at III.2.1)

- Upload requirements: PDF file format, maximum 10 files, total capacity not exceeding 10MB.
- Each contract calls the upload API once.

Step 2: After successful upload, vContract returns a list of successfully uploaded files (III.2.1 return results section). The system wants to integrate the re-mapping of the uploaded file into the contract request.

Step 3: Call the contract creation API (API Description at III.2.2)

- API receive contract request and checks data format.
- Correctly formatted data will be reported as successfully received. The contract is pushed into the background processing.



4. Contract creation process flow

Description: In this processing flow, the contracts in the queue will be scanned and processed to create

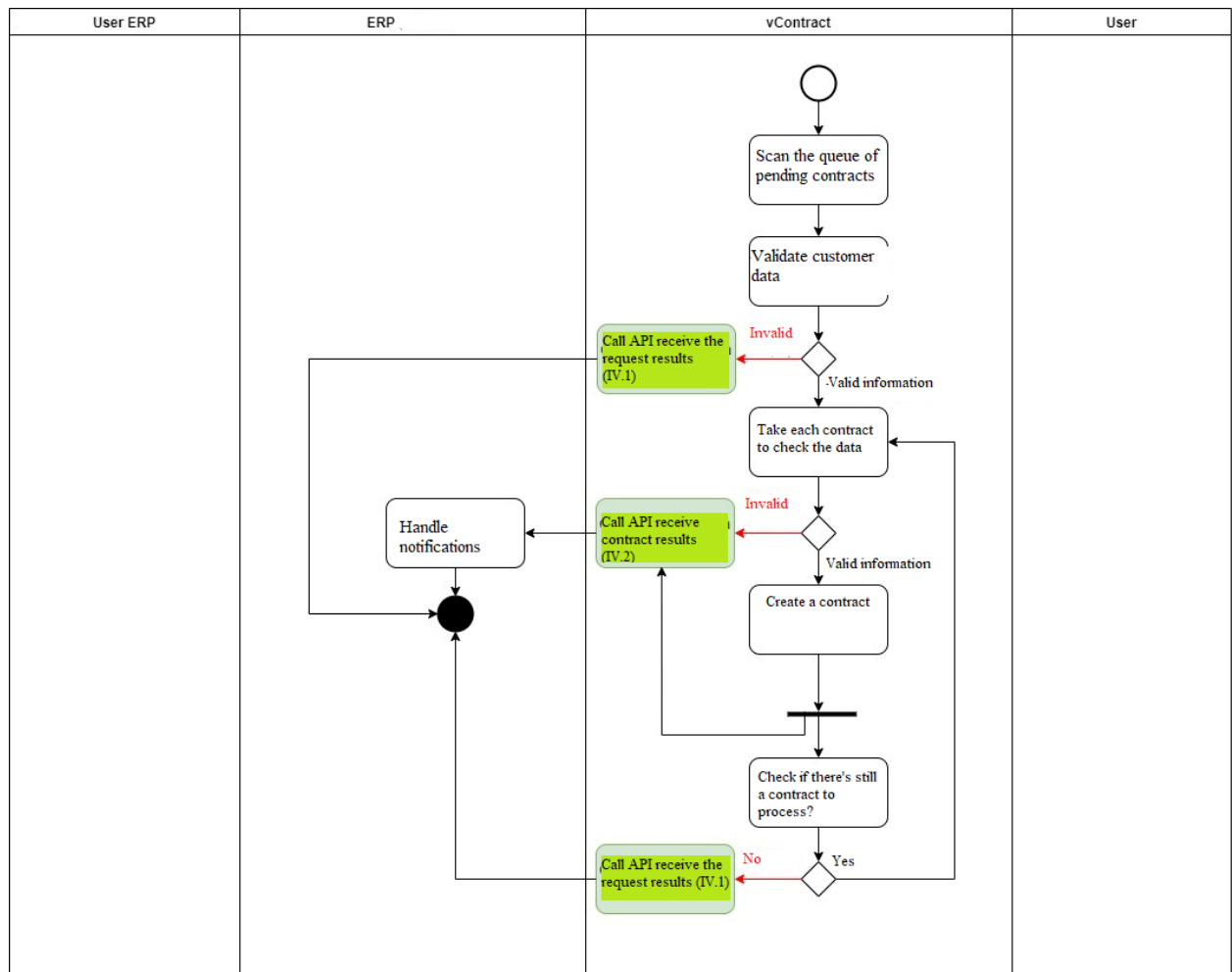
Details: The contract, after being received from the Contract Creation Stream (II.3), will be processed below the scanned background and processed to create.

Step 1: Validate customer data. If invalid, call callback to report error to ERP according to API receive request result (IV.1). If validate data is valid, go to next step.

Step 2: Get each contract in the request (Because a request can create many contracts):

- Validate data. If invalid, call callback to report error to ERP via API receive results of each contract (IV.2).
- If the validation data is valid, create a contract and call the callback to report success to ERP via API receive the results of each contract (IV.2)

Step 3: After completing the request contract, call the callback to report completion to ERP via API receive the results of the entire request (IV.1)



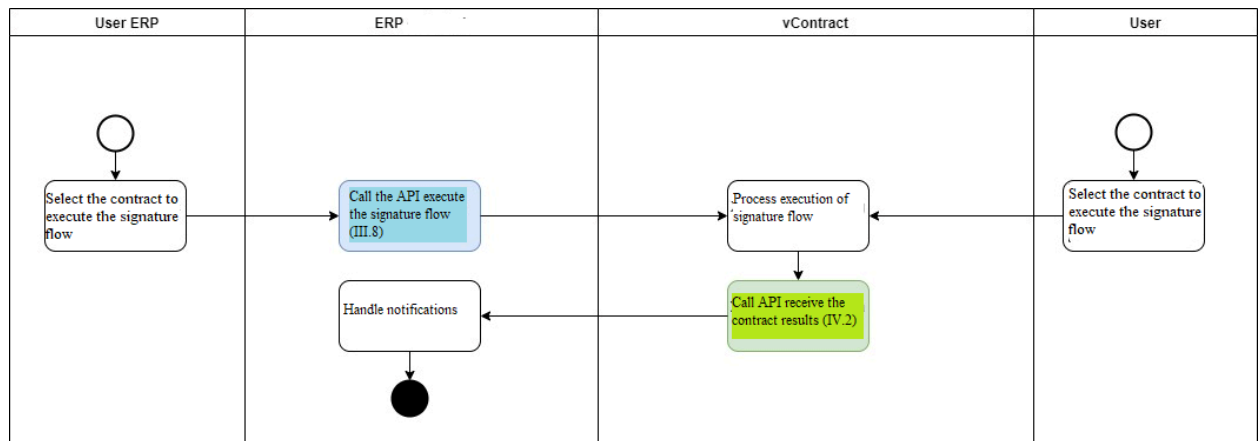
5. Signature flow execution flow

Description: Process moves the contract status from draft to processing (starting the signature flow).

Details: With the contract in draft status, the signature flow can be performed via:

- Call the API execute the signature flow from ERP (API Description at III.8)
- Log in on the vContract web and press the execute signature flow button.

After the signature flow is successfully executed, vContract reports success via API call to receive contract results (IV.2).



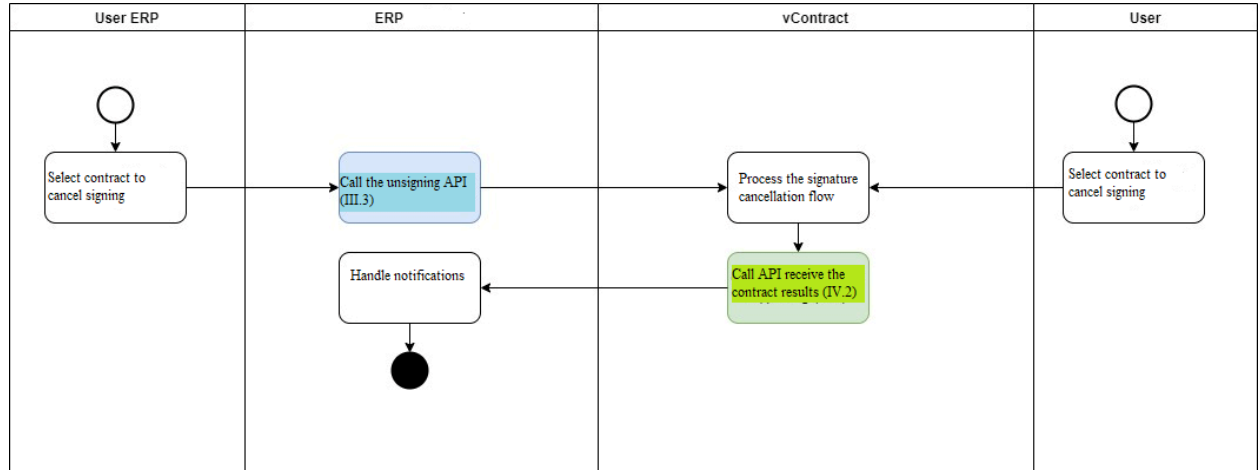
6. Contract Signing Cancellation Flow

Description: Contract signing cancellation processing.

Details: It is possible to perform signature flow cancellation via:

- Call the API cancel signature from ERP (specified in API at III.3)
- Log in on the vContract web and press the signature cancellation flow button.

After successfully unsigning, vContract reports via API call to receive the contract results (IV.2).

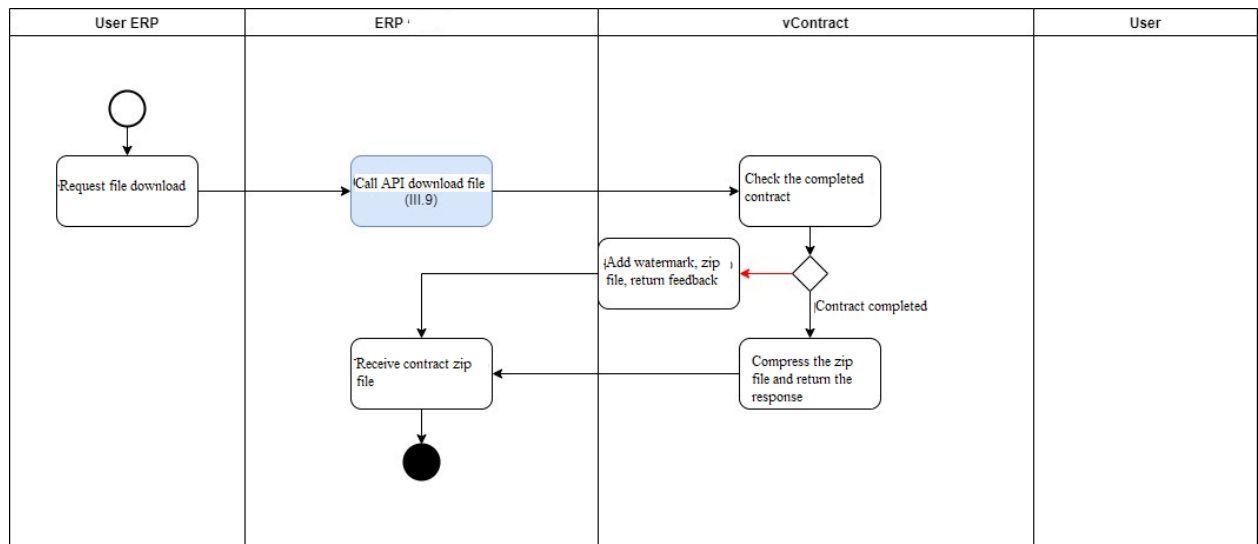


7. File download flow

Description: vContract processes compression and sends files to ERP when there is a file download request

Details: vContract allows downloading all contract files (API description at III.9)

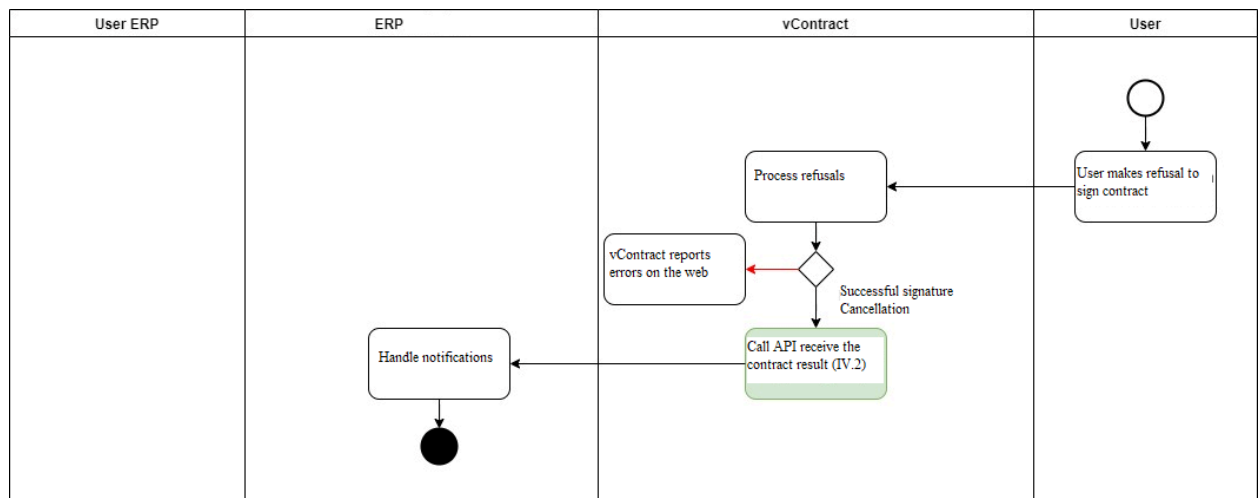
- For unfinished contracts, vContract will add the watermark "Document not yet effective" to each file before zipping and returning it.



8. The vContract flow notifies when a user refuses to sign

Description: vContract calls notification to ERP when user refuses to sign

Details: When the user successfully refuses to sign, vContract will call the refusal to sign notification via the API to receive contract results (described at IV.2)



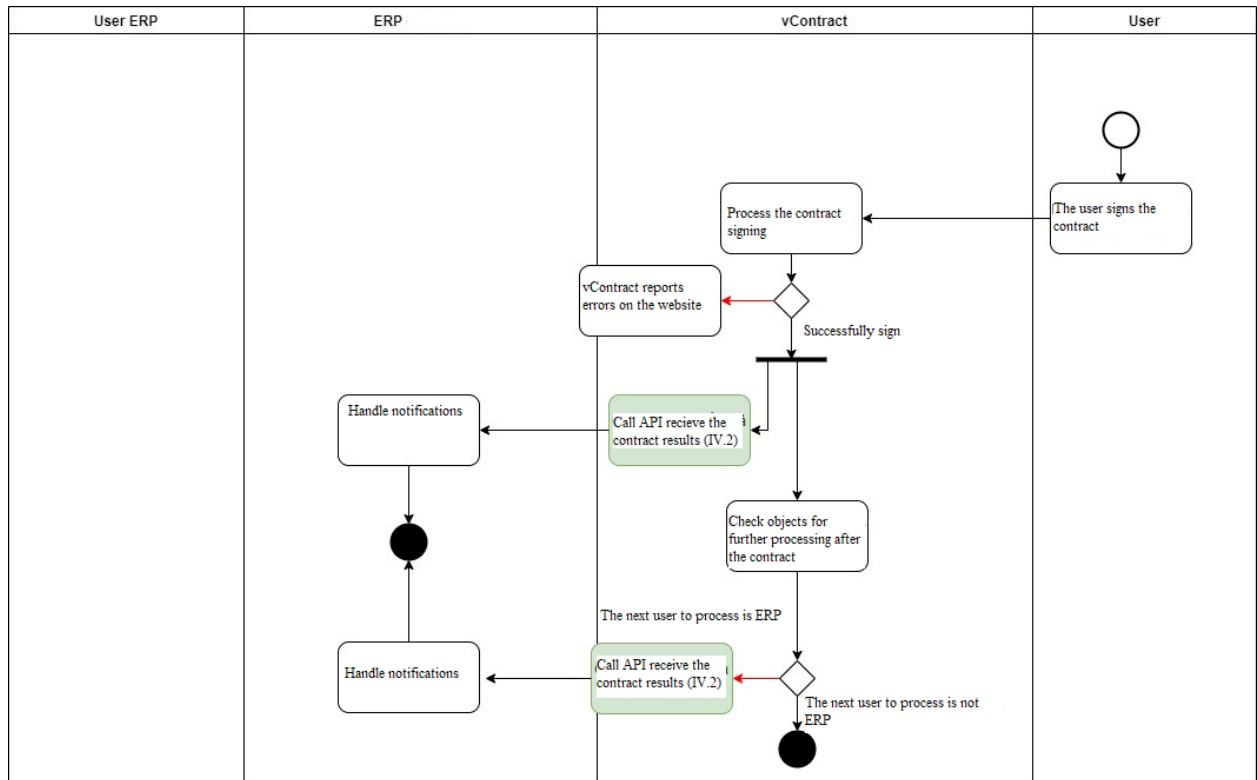
9. The vContract flow notifies when the user signs

Description: Flow processes when a user signs a contract

Details: When an object in the flow signs a contract

- If the signing is successful, vContract makes an API call to notify ERP according to the API flow receive the contract results (IV.2).

- vContract checks if the next object to be processed has an ERP user. If correct, it will continue to call the API to notify the ERP that needs to be processed according to the API flow receive the contract result (IV.2).

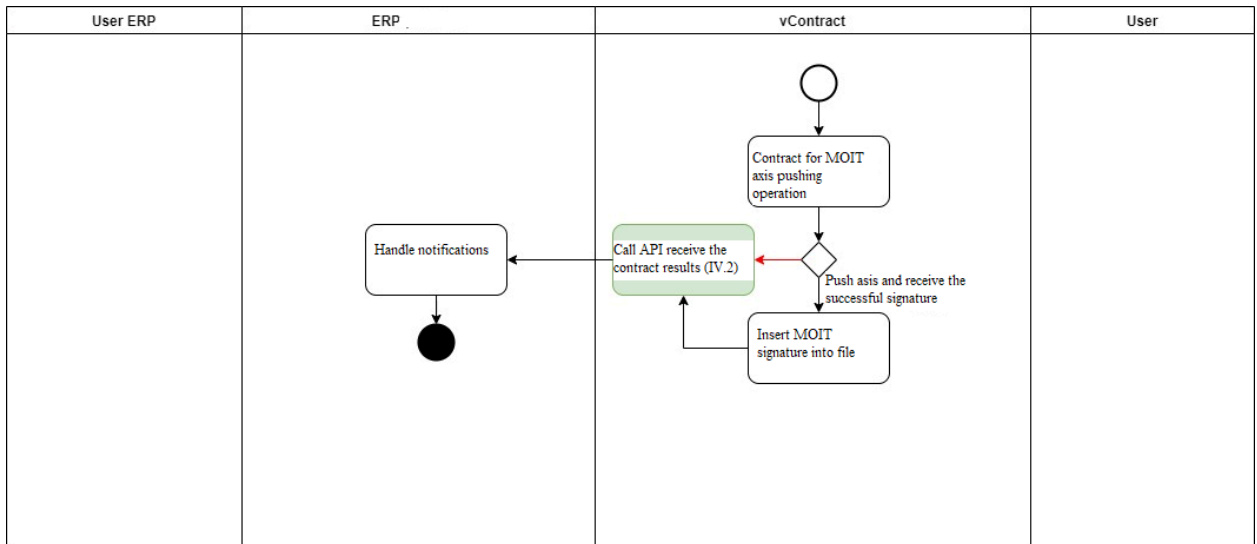


10. The vContract flow notifies when the contract is sent to the MOIT axis (Ministry of Industry and Trade)

Description: After the contract is signed by all parties, vContract will push the authentication to the Ministry of Industry and Trade

Details: When performing MOIT axis pushing (Ministry of Industry and Trade):

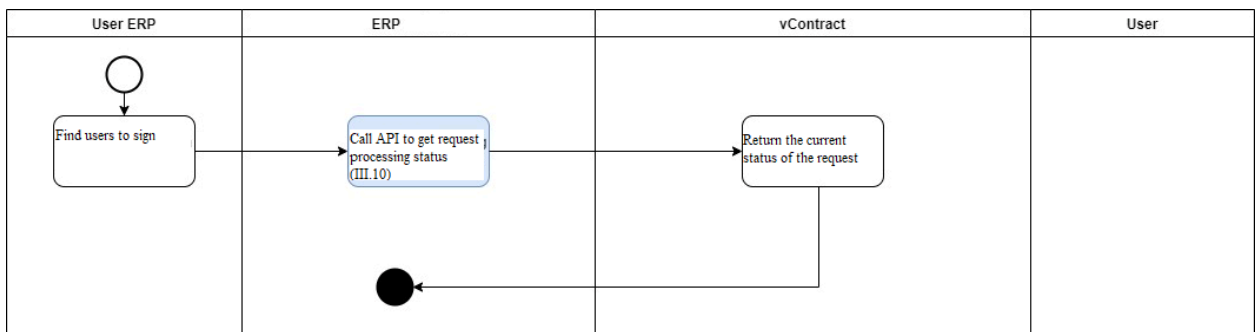
- If an error occurs: Call the API to report the error to ERP via the API flow to receive the contract results (IV.2).
- If successful: Call API to report contract processing completion to ERP via API flow to receive contract results (IV.2).



11. The flow retrieves the request processing status

Description: In addition to the callback feature to notify ERP of the results of the entire request (IV.1), vContract also provides an API for ERP to proactively call to get the processing results of the request.

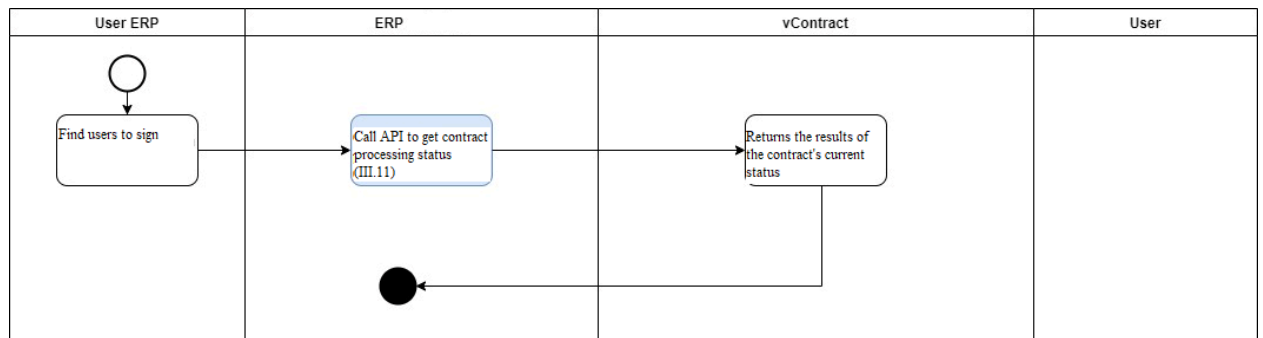
Details: The API returns the results of both requests described in III.10.



12. The flow retrieves the current status of contract processing

Description: In addition to the callback feature to notify ERP of the processing results of each contract (IV.2), vContract also provides an API for ERP to proactively call to get the processing results of the contract.

Details: The contract result return API is described at III.11.



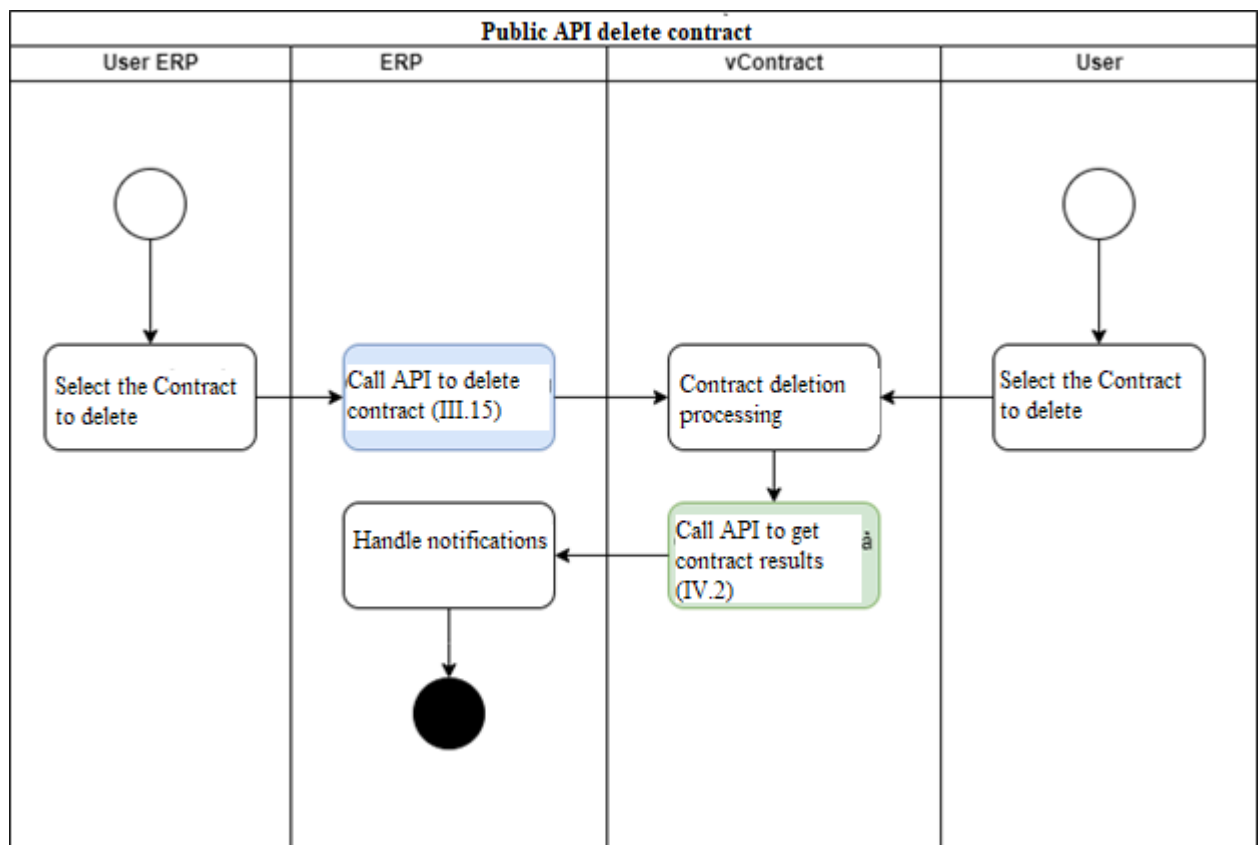
13. Contract deletion flow

Description: Contract deletion processing.

Details: Contract deletion can be done via:

- Call the delete API from ERP (described at API at III.15)
- Log in on the vContract website and press the delete button.

After successful deletion, vContract reports via API call to receive contract results (IV.2).



III. VCONTRACT CALL PARTNER API DETAILS

Note: {domain}

UAT service address: /scontract-web-api

Service Production Address: /scontract-web-api

1. Automatic login API (RESTful API)

URI	{domain}/api/auth/login				
Method	POST				
Parameters	Parameter name	Type	nullable	Meaning	Example
	username	string	false	Username provided by SContract system	2105202039-120
	password	string	false	Password corresponding to the username provided	SContract@2019
	isNotHuman	string	false	Boolean determines whether this is an automatic system login or a user login: Boolean = true => automatic login system. Boolean = false or null => human login (User login)	true
	cpCode	string	true	A code is given to each system. To identify the system	CM_SYS

				and distinguish between different systems Required when isNotHuman = true	
	cpAccount Code	string	true	The version that is importing the eContract receives values: VCONTRACT: authenticated, SCONTRACT: not authenticated Note: do not transmit the default version as vContract	VCONTRACT
Request body	Header	Content-Type: application/json			
	Example	{ "username": "2105202039-120", "password": "SContract@2019", "isNotHuman": "true", "cpCode": "CM_SYS" }			
	Description	Automatic login function, retrieves login token.			
Response	Result	Description			Example
	Success	Returns base64 format, when decoded, it will output json, for example as follows: {"code": "200", "message": "OK", "data": { "token": eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiIyM			eyJjb2RlIjoimjAwLiwbWVzc2FnZSI6Imk9LiwiZGF0YSI6ImNteInRva2VuXCI6XCJleUpoYkdjaU9pSkIlelV4TWIKOS5leUp6ZFdJaU9pS

		TA1MjAyMDM5LTEyMCIsInNhbHQiOiJXT0ZUQE5OaHVzIiwiZXhwIjoxNjI3NTc4MDAwLCJpYXQiOiE2MjY3NTA0NzksInVzZXJuYW1lIjoieWNTIiwMjAzOS0xMjAifQ.TZQSj_i4DGF6ZMAu6bMMIVj4voR56PeR3-OQl9sqO8L3l51fRzd vfyCZL27B0aU9a_6IaG9D2Lo6NeN_629fuQ,tenantId:NTRmJSMkc0EmKjE\\u003d,userId:NWE0ZmQkaHNBKjQ5MA\\u003d\\u003d,enterpriseId:NTRmc0EmKjQxOA\\u003d\\u003d,username:2105202039-120,fullName:test,isParent:true,userType:1,permissions:[0,1,2,3,4,5,6]}","success":true} In which - code: 200 - message: OK - data: Response data - o Token: User login information authentication token - o tenantId: tenantId of user login - o userId: userId of user login - o username: username of user login - o EnterpriseId: enterpriseId of user login	XINVEExTWpBeU1ETTVMVEV5TUNJc0luTmhiSFFpT2IKUIZHZHpkbEl0YUVKcElpd2laW Gh3SWpveE5qSTBNamswT0RBd0xD SnBZWFFpT2pFM k1qTTBOekl3TURJc0luVnpaWEp1WV cxbElqb2lNakV3Tl RJd01qQXpPUzB4 TWpBaWZRLkINV TdlLTR6U0NZU2w 5c1htRk9mN2RHX 3V3aTFxQkNXSnd oV0l0TmRNa0JVM klFXzQtdlV2emJy NE1WRW9UdG00 WDhXNzJTRDRaa zNta05IXzVYcnhn XCI5XCJ0ZW5hbn RJZFwiOlwiTIRsb UpTTWtjMEVtS2p FFXx1MDAzZFwi LFwidXNlcklkXCI 6XCJOV0UwWm1 Ra2FITkJLaE1TU FcXHUwMDNkXF x1MDAzZFwiLFwi ZW50ZXJwcmIzZ UlkXCI6XCJOVFJt YzBFbUtgUXhpQ VxcdTAWM2RcXH UwMDNkXCI5XCJ 1c2VybmFtZVwiOl wiMjEwNTIwMjAz OS0xMjBcIixcImZ 1bGxOYW1lXCI6
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		- fullname: Full name - isparent: is parent - userType: Type of user - permission: list of user login rights success: true	X CJ0ZXN0XCIsX C Jpc1BhcmVudFwi OnRydWUsXCJ1c2 VyVHlwZVwiOjEs XCJwZXJtaXNzaW 9uc1wiOlswLDEs MiwzLDQsNSw2X X0iLCJzdWNjZXN zIjp0cnVlfQ==
	Failure	Returns base64 format, when decoded, it will output json, for example as follows: {"code":"0x00110","message":"Username or password is invalid.","data":"null","success":false} In which - Code: error code - Message: Response content - Data: response data - Success: false (failed API status)	eyJjb2RlIjoimHgw MDExMCIsIm1lc3 NhZ2UiOiJVc2Vybn mFtZSBvcjBwYXN zd29yZCBpcyBpbm ZhbGlkLiIsImRhdG EiOiJudWxsIiwic3 VjY2VzcyI6ZmFsc 2V9

Description of API Results

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	According to the successful response description format	Ensure: - Correct username and password information - Username & cp_code belong to the same company - The IP calling the API is in the

					allowed access list
Failure	0x00115	False	Data is invalid. Please check again	Details of the format error	The entered data is not in the correct format specified in the Parameters section
	0x00109		Account has been locked. Please contact administrator for assistance.	Null	User account is locked, including 2 cases: personal user account is locked or user's business account is locked
	0x00110		Incorrect username or password		The username or password entered do not match
	0x00222 1		Login name and CP_code do not match		Username and cp_code do not belong to the same company
	0x00220 9		This IP does not have access, please check again!		The IP calling the API is not in the CP_code access allowed list
	0x00222 3		CpCode is required when logging in from other systems (isNotHuman = true)		Do not enter cpCode in case of logging in from another system (isNotHuman = true)
	0x00291 7		The user is not configured for		The user is not configured for cpInfo

			cpCode		
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2. API pushes customer and contract information

2.1 Api upload file

URI	{domain}/api/integration/upload/files				
Method	POST				
Parameters	Parameter name	Type	nullable	Meaning	Example
	files	List<MultipartFile>	false	List of contract files	List<MultipartFile> files
	contractCode	String	false	Define the list of uploaded files corresponding to the contract created	ecdfe45b-560a-458a-a6d9-a7c825fc3b1e
Request body	Header	Content-Type: multipart/form-data			
	Description	Contract file upload function			
Response	Result	Description			Example
	Success	Returns base64 format, when decoded, it will output json, for example as follows: { "code": "OK", "message": "OK", "data": { "contractCode": "", listFile:[			ZXIKaGJHY2lPaUpJVXpVeE1pSjkuZXIKemRXSWlPaUl3TVRBM016RXhNekk1SWl3aWMYRnNkQ0k2SWtZelh6TS1TbUpGYVVFaUxDSmxlSEFpT2pFMk56Y3dPRFV5TURBc0ltbGhkQ0k2TVRZM05qSTRNeKV6TUN3aWRYTmxjbTVoYldVaU9p

		<pre> { "fileName": "bien_ban.pdf", "fileSize": 66171, "path": "15BF92952FF1B0ACF1E0A142E175F741E0F78B71ACDAF7338391EEC29D2DCDDA" }, { "fileName": "bien_ban_nghiem_thu.pdf", "fileSize": 607157, "path": "B413E2D0A49E58A507603A91197C95BCB34AB27F45D432F1969C9C15FB2665A2" },], "success": true } </pre> In which - code: 200 - message: OK - data: Response data ○ Token: User login information authentication token ○ fileName: File name	SXdNVEEzTXpFe E16STVJbjAua29m LVAYQ2poY1g4Nm NIVjNVbWQtZTJv bWdnTDVFOG5CS zUxR3pxVFVMW UdtRVlaSHIGRUN 6cU5RRlITS2hLdE RMSUxvQ2pnckFq dl9BNVVwM1kze UE=eyJjb2RlJoiT0 siLCJtZXNzYWdlIj oiT0siLCJkYXRhIj oiW3tcmlkXCI6X CJGS0VfOWZjYjB kOGYtMjc0Mi00Z WNiLTljNjgtZmU5 ZjM4ODFmZmNjX CIsXCJmaWxITmF tZVwiOlwiYmllbl9i YW4ucGRmXCIsX CJmaWxIU2l6ZVw iOjY2MTcxLFwicG F0aFwiOlwiMzE3N kUyM0M0M0E5N UFERjUyNjQwQz BGODEzODFBNT ZFRtU5QzAyNDM wNzIyREY2Qzgw NTgyRTYzNDBDR EU0NlwiF7XCJp ZFwiOlwiRktFX2I1 NzYxZTczLThlND UtNDVhMi05Zjg0 LTMzM2ZiOGJkO DliY1wiLFwiZmls ZU5hbWVcIjpcImJ pZW5fYmFuX25na GllbV90aHUucGR
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		○ fileSize: File size - success: true	mXCIsXCJmaWxl U2l6ZVwiOjYwNz E1NyxclnBhdGhcIj pcIjE1MzUyNDBC OUM2MjlBOTdD M0UyMzQ1OTFG N0Y5NzUwRThFR DIFOUUwRkFBO UQwNzJENjRFQz YyNDk3ODgyQjFc In1dliwic3VjY2Vzc yI6dHJ1ZX0=
	Failure	Returns base64 format, when decoded, it will output json, for example as follows: {"code": "0x00801", "message": "Upload file failed !", "success": false} In wich - Code: error code - Message: response content - Data: response data - Success: false (failed API status)	eyJjb2RlljoiMHgw MDgwMSIsIm1lc3 NhZ2UiOiJVcGxv YWQgZmlsZSBm YWlsZWQgISTsIn N1Y2Nlc3MiOmZh bHNlfQ==

Description of API Results

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	According to the successful response description format	Ensure: - Correct file list information

Failure	0x00801	False	Upload file failed !	Details of the format error	The entered data is not in the correct format specified in the Parameters section
	0x00211		The contract has an invalid signature. Please upload another file.	Null	The contract has an invalid signature. Please upload another file.
	0x10001		The number of uploaded files cannot exceed 10 files		The number of files exceeds 10 files
	0x10002		Total file size does not exceed 10MB		Total file size is over 10MB
	0x10003		Contract code [contractCode] uploaded file		The enterprise's contractCode already exists
	0x10004		Upload file only supports pdf format		File format, not .pdf
	0x10005		Contract code is required and cannot contain spaces		contractCode is required and cannot contain spaces
	0x10015		Uploaded file has no data		Do not attach uploaded files

	0x10016		List of uploaded files with duplicate names		List of uploaded files with duplicate names
	0x10017		List of uploaded files with total size > 10MB and exceeding the 10MB size available in the system		List of uploaded files with total size > 10MB and exceeding the 10MB size available in the system
	0x10018		List of uploaded files with total size > 10MB but the business has not purchased the service to upload files > 10MB		List of uploaded files with total size > 10MB but the business has not purchased the service to upload files > 10MB

2.2 API create contracts

General API description

URI	<u>{domain}/api/integration/input-contract</u>				
Method	POST				RESTful API
Parameters	Parameter name	Type	nullable	Meaning	DTO Information
	customerList	List string JSO	false	List of personal/business customer information	List<CustomerInfo DTO> customerList

		N		included in the contract signing flow	
	contractList	List string JSON	false	List of contract information to be signed	List<ContractDTO> contractList
	optionalPayload	string set of additi onal infor matio n JSON key value	true	Send additional information if needed, may not be used. For example: "optionalPayload": { "timeout_request": "50000"} 	Map<String, Object> optionalPayload
	requestCode	string	false	The requestCode sent by the system is automatically generated. The code is unique for each contract request submission	
Request body	Header	Content-Type: application/json Authorization: Bearer xxxxxxxxxxxx			
	Example	 data.json			Update the json file again

	Description	Send the necessary information to run the automatic signature flow	
Response	Result	Description	Example
	Success	When receiving information successfully, it returns the base64 encoded result, when decoded, it will output json as follows: {"success": true, "code": "OK", message: "OK"}	e+KAnHN1Y2Nlc3 PigJ06IHRydWV9
	Failure	Returns the failure result and error details, the content is base64 encoded, when decoded it will output json, for example as follows: {"success":false,"data":" Missing document number information for customer: Nguyen Dang Sinh; City code is in wrong format for customer: Nguyen Dang Sinh "} In which - Success: false Data: Error messages are separated by “.”	

List of DTOs and descriptions

a. *CustomerInfoDTO*

Fields Name	nullable	Type	Description
cusName	False	String	Individual customer name, or business customer name (such as company name, collective name, committee name). maxLength = 200

birth	True	Date	Date of birth of individual customer Datetime format, null allowed. For organizational customers, this information is not declared.
sex	True	String	Gender of individual customer, null allowed. - Sex = male => Male - Sex = female => Female For organizational customers, this information is not declared.
businessType	False	Integer	Information on the type of entity signing on the electronic contract system: - businessType = 1: Customer Enterprise => Customer is an organization - businessType = 2: Personal Enterprise => Individual customers
paymentInfo	True	PaymentInfoDTO	Customer payment information
contactInfo	False	ContactInfoDTO	Customer contact information
identityInfo	False	IdentityInfoDTO	Customer document information
represent	True	RepresentDTO	Information of the customer's representative is an organization. This information is required for organizational customers For individual customers, this information is not declared.
customerCode	False	String	- Customer code information • Entry not required • Maxlength 50 (excluding first and last space) • Do not allow space in the middle of customerCode (allow trimming

			the first and last spaces of customerCode)
isSendSms	False	Boolean	Mark whether to send account information via SMS to the customer's phone number or not. • Entry not required • True: Mark SMS sending, False: Do not mark SMS sending In case it is true: - For customers who do not have an account in the system, send account information including username, password and login link via SMS to the customer. - If the customer already exists in the business, do not send SMS messages

b. PaymentInfoDTO – Customer payment information

Fields name	nullabl e	Type	Description
bankAccountNumber	True	String	Customer's bank account number Numeric string consisting of only letters and numbers <i>maxLength = 50</i>
bankName	True	String	Name of the bank used by the customer <i>maxLength = 50</i>
bankCode	True	String	Bank code according to corresponding bank name Extended fields, not saved in the database □ do not declare this information

branchName	True	String	Bank branch name <i>maxLength = 100</i>
branchCode	True	String	Corresponding branch code Extended fields, not saved in the database □ do not declare this information

c. *ContactInfoDTO* – Contact information for the customer or contract creator

Fields name	nullabl e	Type	Description
address	True	String	Customer contact address - If it is <i>customerInfoDTO. contactInfo</i> (customer contact information): required to fill out - If it is <i>contractDTO. creatorInfo</i> (contract creator): do not declare this information. <i>maxLength = 200</i>
city	True	CityDTO	Province/City information in customer address information - If it is <i>customerInfoDTO. contactInfo</i> (customer contact information): required to fill out - If it is <i>contractDTO. creatorInfo</i> (contract creator): do not declare this information.
district	True	DistrictDTO	District information in customer address information - If it is <i>customerInfoDTO. contactInfo</i> (customer contact information): required to fill out - If it is <i>contractDTO. creatorInfo</i> (contract creator): do not declare this

			information.
ward	True	WardDTO	Ward/Commune information in customer address information - If it is <i>customerInfoDTO. contactInfo</i> (customer contact information): required to fill out - If it is <i>contractDTO. creatorInfo</i> (contract creator): do not declare this information.
phoneNumber	False	String	Phone number of the customer or contract creator. here are the following phone number formats: - Format 1: Has a leading 0, followed by a string > 8 digits. Example: 0979989999 - Format 2: Contains the country code [“+” country code], followed by a string of digits according to that country's phone number regulations. In this phase, only phone numbers in Vietnam are specified. There is a 0 at the beginning, followed by a string of > 8 digits. For example: 0979989999 maxLength = 20
email	False	String	Email address of the customer or contract creator The email format is as follows: emailaccount@domain.com 1. Account name (before the @ sign): contains letters or numbers. 2. @ sign 3. The part after the @ sign (domain): this part can contain letters or numbers, the "." sign and finally the level of the domain name.

			maxLength = 100
fax	True	String	- If it is customerInfoDTO. contactInfo (Customer contact information): this is the customer's fax number, not required Has a leading 0, followed by a string of digits. For example: 0979989999 - If it is contractDTO. creatorInfo (contract creator): do not declare this information. maxLength = 20
fullName	False	String	Name of the contract creator or name of the customer Currently required to enter together, but in case of customer name this information has not been saved in the database maxLength = 200

d. CityDTO – Province/City Information

Fields Name	nullabl e	Type	Description
code	False	String	Province/city codes are transmitted as codes. Each province/city has its own unique code, which is not duplicated. The province code must be in the vContract province list and active maxLength = 50

e. DistrictDTO – District Information

Fields Name	nullabl e	Type	Description
code	False	String	District code is transmitted as code. Each District has its own unique code, which is

			not duplicated. A District code has only a child-parent relationship with a Province/City code. The district code must be in the vContract district list and active maxLength = 50
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f. WardDTO – Ward/Commune Information

Fields Name	nullabl e	Type	Description
code	False	String	Ward/Commune code is transmitted in code. Each Ward/Commune has its own code, which is not duplicated. A Ward/Commune code only has a child-parent relationship with a District/County code. Commune code must be in the vContract commune list and active maxLength = 50

g. IdentityInfoDTO – Identity information

Fields Name	nullabl e	Type	Description
customerType	False	String	Customer / representative type, is one of the values below: - 10000: Individual - 10001: Private company (LLC, JSC, partnership, joint venture) - 10002: Governmental agencies (People's Committees, mass organizations) - 10003: Government agencies

			(Ministries, Departments, Branches) - 10004: State-owned enterprise Currently, it is mandatory to enter the same, but in case of representative information, this information have not been saved in the database
taxCode	True	String	Is the tax code of the corporate customer, information is only for organizational customers. The format of Tax Code includes 2 formats as follows: - Format 1: < ten digits> Example: 8082940359 - Format 2: < ten digits>-<three digits> Example: 8082940359-123 The Tax Code value of a customer must comply with the following rules: - Must not overlap with the Tax Code of any other business that already exists in the system. - Check the 10-digit code structure (Format 1): Number A = 31*first number on the left + 29*second number + 23*third number + 19*fourth number + 17*fifth number + 13*sixth number + 7*seventh number + 5*eighth number + 3*ninth number. Divide number A by 11, the remainder is number B, subtract number B from 10 to equal the 10th number in the tax code is correct, otherwise it is incorrect. - Check the 13-digit code structure (Format 2): includes checking the 10-digit code structure and checking the value of the last 3 digits. The last 3 digits must be entered in full. For individual customers or representative information, do not declare this information.
documentType	False	String	Document type information of the

			customer / business representative. Document type data is transmitted in code. Type of documents for individual customers: - ID card – Code: 30000 - Passport – Code: 30001 - Citizen ID card –Code: 30002 - Other types of documents – code: 30003 Types of documents for business customers include: - Establishment license –code: 20001 - Business registration certificate –code: 20000 - Establishment decision –code: 20002 - Other types of documents –code: 20003
documentNumber	False	String	Customer's document number must not be the same as another customer's document number. 1. Individual customers □ are identification documents. Accept Vietnamese, no spaces. 2. Organizational customers □ are the number of establishment documents / business registration certificate. The certificate number is transmitted as a character string. Accept Vietnamese, do not accept spaces and only allow 2 special characters: “/” “-”

			maxLength = 20
documentIssuedPlace	True	String	Place of issue of customer's identity documents \ establishment documents. maxLength = 50
documentIssuedDate	False	Date	Date of issue of customer's identity document \ establishment document. yyy-MM-dd format. Issue date must be less than or equal to current date.
documentExpireDate	True	Date	Certificate expiration date. yyy-MM-dd format, expiration date must be greater than issue date. Extended field for customer document expiration date information, saved in database, not displayed on interface For representative information, do not declare this information.

h. RepresentDTO – Information of business / organization representative

Fields Name	nullable	Type	Description
fullname	False	String	The name of the organization representative, transmitted as text. maxLength = 200
position	True	String	Organization representative position maxLength = 200
sex	True	String	Gender of the organization representative, one of the following two values: - Sex = male => Male - Sex = female => Female
birth	True	Date	Date of birth of organization representative.

identityInfo	True	IdentityInfoDTO	Verification information (if any)
contactInfo	True	ContactInfoDTO	Contact information (if any) Field extended, not saved in database ☐ do not declare this information

i. ContractDTO – Contract information

Fields Name	nullable	Type	Description
contractCode	False	String	Contract code is the code of the contract created and specified from another system- Contract code format: including numbers, numbers and signs. Contract codes cannot be duplicated between contracts in contractList maxLength = 50
contractName	False	String	Name given to the contract. transmitted as a string. maxLength = 100
contractType	False	String	The system transmits the contract type code as code. Code format: Character string without spaces, specified by the Electronic Contract system for each type of contract and each internal unit
contractExpired Date	True	Date	The date the contract becomes legally invalid. Format: yyyy-MM-dd If null is transmitted: The contract has no expiration date.
creatorInfo	False	ContactInfoDTO	Contract creator information, used to send notifications when contract status changes.
contractFile	True	AttachmentListDT O	List of contract files, contract appendices and attachments

			attachmentType: 40000: contract file 40001: document file 40002: Attached file For creating a Contract from a template, do not transmit 2 types: 40000 and 40001
listPartner	False	List<PartnerDTO>	List of subjects participating in signing the contract and the processing order of each subject
autoStart	False	Boolean	Implement the signature flow (true/false) - true: - false:
isConfirmMOIT	False	Boolean	Send request to sign axis (true/false) - true: sent to Axis - false: not sent to Axis Currently only true transmission is supported
contractTemplate	true	ContractTemplateDTO	Contract templateInformation – MergeFields Values Use when creating a Contract from a template For contracts created from files, this information is not declared
contractReferences	false	List<ContractReferenceDTO>	Information on contracts/related documents

j. PartnerDTO – Information of the parties signing the Contract

Fields name	nullable	Type	Description
documentNumber	False	String	Document number of the signing entity. If the signing entity is a unit belonging to the Creator □ transmit the tax code of that unit.

			- If the customer entity signs a contract with the Creator: is the document number or tax code of the corresponding customer in customerList The entity's document number cannot be duplicated among the entities in listPartner
signerInfoList	True	List<SignerInfo>	It is required to fill in the list of users participating in the contract creator (the unit calling the API). For the signatory who is not the contract creator, this information is not declared + With Contract created from File: Required + With Contracts created from Templates – The creator may not transmit this information, the system will support filling in data from the Configuration Signing Process in the template.
order	False	Integer	The order of signature of the parties, if the two parties have the same order of signature, when presenting for signature, the two parties will sign simultaneously. Required to be greater than 0
signFree	False	boolean	Determine whether the corresponding subject performs signing without logging in - signFree = true => Allow signing without login. - signFree = false => Not allowed to sign without login The signing subject is the Creator then signFree = false For sContract version, signFree = true is required for the subject being the customer
signType	False	String	How to perform the signature of the corresponding subject: - normal: Sign in the Contract

			system
signConfig	True	SignConfigDTO	Save information whether to display signature image or not Value: "signConfig": {"showImage": true} In which: showImage = true: has a signature image displayed showImage = false: Does not show signature image

k. AttachmentListDTO – List of attached file information

Fields name	nullabl e	Type	Description
listAttachment	True	List<AttachmentDT O>	- If it is customerInfoDTO.attachment (Customer attachments): not required - If it is contractDTO.contractFile (Files that need to be signed + contract attached): at least 1 file is required [AttachmentDTO] need signature (attachmentType = 40000 / 40001)

l. AttachmentDTO – nformation of a contract file / attachment (may have multiple pages)

Fields name	nullabl e	Type	Description
fileName	False	String	The file name cannot be the same as another file name in the same listAttachment (for example, in the same CustomerInfoDTO.attachment or in the same ContractDTO.contractFile, the AttachmentDTO files cannot have the same name) maxLength = 255 If attachmentType = 40002 fileName must have extension (eg: .png, .jpg,...)
base64Data	True	String	Contract file data is encodedBase64

path	False	String	File path Path cannot be the same as the path of another file in the same <i>listAttachment</i>
attachmentType	False	String	File type, transmitted as code. - attachmentType = 40000 => contract (file to be signed) - attachmentType = 40001 => Contract appendix (file to be signed) - attachmentType = 40002 => Attached file (no signature required) -> Not tested at this stage In the contract file list (<i>ContractDTO.contractFile</i>) there must be at least one type 40000 or 40001
signList	True	List<SignPositionDTO>	- If it is information in <i>customerInfoDTO.attachment.AttachmentDTO</i> (customer attachment): do not declare this information y. - If it is information in <i>contractList.contractFile.listAttachment.AttachmentDTO</i> (files to be signed and contract attachments): + If the file needs to be signed (attachmentType = 40000 / 40001): is a list of fixed signature information in the file. If the signed file does not specify fixed coordinates ☐ leave null + If the file type is attachment (attachmentType = 40002), do not declare this information
metadata	True	Map<String, Object>	Additional data for the file of the call system to create the contract (optional)

m. SignPositionDTO – Signature location information

Fields Name	nullable	Type	Description
signType	False	String	Determine the location to insert a signature image or digital signature of the subject / user. - <i>image</i> : Insert both signature

			image and digital signature
username	True	String	Determine which internal users will sign in this location by username. If not an internal user's signing location ☐ null required For the signatory who is not the contract creator, this information is not declared
documentNumber	True	String	Determine which subject will sign at this position by document number - If the signing entity is a unit belonging to the creator ☒ transmit the tax code of that unit. - If the customer subject signs a contract with the creator: is the document number or tax code of the corresponding customer in customerList
pageNumber	False	Integer	Page containing signature location - If the requesting party fixes the signature location ☐ set this information field
x	True	Integer	X coordinate format of the signature position Contract from template: not declared Contract created from file: required
y	True	Integer	Y coordinate format of the signature position Contract from template: not declared Contract created from file: required
width	True	Integer	Width of the signature position frame Contract from template: not declared Contract created from file: required
height	True	Integer	Height of the signature position frame Contract from template: not declared Contract created from file: required

signatureId	True	Integer	Sample signature identification (taken from section III.13) Contract from template: required Contract created from file: not declared
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n. SignerInfoDTO – Information of users participating in the creator's internal signature

Fields name	nulla bl e	Type	Description
username	False	String	username of the user participating in signing the Creator (user who already has an account) username cannot be duplicated among <i>SignerInfoDTO</i> in <i>signerInfoList</i>
signRole	False	String	The user's contract processing role is corresponding, specified by code - <i>approver</i>: approval role - <i>signer</i>: signatory role <i>Approvers</i> will always be placed before <i>signers</i> .
order	False	Integer	Approval/signing order in respective users in the signature flow
signMethod	True	String	Get value with approver receiving value + NULL: Keep the old flow + CA: Approval by Digital Certificate - WITH signature image + CA_NOT_SHOW: Approval by Digital Certificate - NO signature image

			shown
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o. ContractTemplateDTO – Contract template information, information + input value into mergeField

Fields name	nulla bl e	Type	Description
code	false	String	code of the contract template being used to create the contract
url	false	String	Template docx file link Retrieved from Api to get Template information
mergeFields	false	List<DcField>	List of mergeFields with values <i>The mergeFields list comes entirely from the Template details API (III.13)</i> <i>See DcField Information</i> in the section III.13. Api to get Template details. How to transmit data: get the output List<DcField> from the template then fill in additional information into each DcField: + value: display value + valueId: Value ID (Only for select attributes) Then transmit it to the API to create a contract from the template.

signList	True	List<SignPositionDTO>	Signature information of the contract made from template If not transmitted, the system automatically fills the data based on the Signature configuration of the template
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p. ContractReferenceDTO – Information of the contract/ affiliate document

Fields name	nullable	Type	Description
code	false	String	Code of the affiliate contract Format: includes digits, numbers and signs. Binding: - Affiliate contract codes cannot be duplicated in the same contract - maxLength = 50

Description of API Results

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	Null	Ensure: - Input information must be in the correct data format specified in Parameters - RequestCode does not overlap with another requestCode of the corresponding cpCode of the unit where the user is logged in - ContractCode does not overlap with another contractCode of the unit where the user is logged in
Failure	0x10006	False	Details of incorrect / duplicate input data error The customer requesting the	Null	- Or the entered data is not in the correct format specified in the Parameters section - Or the requestCode is duplicated with other requestCodes of the corresponding cpCode of the

			signature must be an individual customer The data entered into the template must be in the correct format: field: <field name > For example: <i>ContractList cannot be null</i>		unit where the user is logged in - Or the contractCode is duplicated with another contractCode of the unit where the user is logged in - Or the template code corresponding to the transmitted template code cannot be found. - Or the field list transmitted is invalid, not matching the fields list of the Template. - Or when transmitted the value into the field of the template in the wrong format: the field is numeric but the input is text.
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3. API cancel the contract signature flow

General API description

URI	{domain}/api/integration/cancel				
Method	POST				RESTful API
Parameters	Parameter name	Type	null able	Meaning	Example
	requestCode	string	false	RequestCode of the order	2105202039-120-234CM_VFREE
	contractList	List string json	false	List of contract statuses: List<ContractResult DTO>	[{"contractCode": "32432432432", "reason": "Customer xxx owes unpaid charges."}]
Request body	Header	Content-Type: application/json Authorization: Bearer xxxxxxxxxx			

	Example	<code>{"requestCode":"20201304-11220-CM","contractList":[{"contractCode":"32432432432","reason":" Customer xxx owes unpaid charges."}]}</code>	
	Description	The cancellation function of the contract(s) of requestCode	
Response	Result	Description	Example
	Success	When the flow is successfully canceled, the base64 encoded success result is returned, when decoded it will be json, for example as follows: <pre> {"code":"200","message":"OK","data":[{"contractCode":"TUANCA11111","status":"fail","message":" Contract with cp code is null, code is TUANCA11111, request code tuan_request does not exist in the system"}, {"contractCode":"TUANCA1","status":"success"}],"success":true} </pre> In which: - Success: true (API status successful) - Code: success code (200) - Message: successful response content (OK) - Data: Response details on each contract processing - contractCode: contract code - o status: success/ fail - o message: Contract result update error details	<pre> eyJjb2RlljoiMjAwIiwibWVzc2FnZSI6Ik9LliwiZGF0YSI6Ilt7XCJjb250cmFjdENvZGVcljpcIlRVQU5DQTEExMTEExXCIsXCJzdGF0dXNcljpcImZhaWxclixcIm1lc3NhZ2VcljpcIkjhu6NwIMSR4buTbmcyY8OzIGNwIGNvZGUgbMOgIG51bGwsIGNvZGUgbMOgIFRVQU5DQTEExMTEExLCByZXF1ZXN0IGNvZGUgbMOgIHR1YW5fcmlVxdWVzdCBraMO0bmYgdOG7k24gdOG6oWkgdHJvbmYgaOG7hyB0aO </pre>

			G7kW5nXCJ9LH tcImNvbnRyYW N0Q29kZVwiOl wiVFBVTkNBM VwiLFwic3RhdH VzXCI6XCJzdW NjZXNzXCJ9XS IsInN1Y2Nlc3Mi OnRydWV9
	Failure	When the update fails, return the base64 encoded failure result, when decoded it will be json, for example as follows: <pre>{"code":"0x0022111","message":" Contract cannot be cancelled ","data":[" The status of the TUANCA contract must be cancel\""],"success":false}</pre> In which: - Success: false (API status failed) - Code: error code (0x0022111) - Message: error response content - Data: input data validation error details	eyJjb2RlljoiMHg wMDIyMTExIiw ibWVzc2FnZSI6I ktow7RuZyB0aO G7gyBo4buneSB o4bujcCDEkeG7 k25nIiwiZGF0YS I6IltcIlRy4bqhbm cgdGjDoWkgY+ G7p2EgaOG7o3 AgxJHhu5NuZy BUVUFOQ0Egc GjhuqNpIGzDoC BjYW5jZWxcIl0i LCJzdWNjZXNz IjpmYWxzZX0=

List of DTOs and descriptions

- *ContractResultDTO*

Fields Name	nullable	Type	Description
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contractCode	False	String	Contract code - Contract code has the format: code. May include digits, numbers and signs.
reason	False	String	Cause/reason information, ensure - Length no more than 255 characters

Describe the API return result

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	Each contract of requestCode is responded to in one of the following cases	The requestCode, contractCode and cpCode information (according to the login information) do not match to find a valid contract record of the user unit that is logging in
				a. Contract error does not exist - contractCode: according to the contract code entered - status: fail - message: Error message details For example: <i>Contract with cp code is ORDER_SYS, code is VTTORNDB234567551, request code is NDB234567551 which do not exist in the system</i>	

				b. Contract error is not in Processing status - contractCode: according to the contract code entered - status: fail - message: Error message details For example: <i>Contract VTTORNDB234567551 is not in processing status so it cannot be canceled</i>	- The requestCode, contractCode and cpCode information matches to find a valid contract record - The corresponding contract found is not in the <i>Processing</i> status
				c. The contract error is canceled but not by the contract creator - contractCode: according to the contract code entered - status: fail - message: Error message details For example: <i>The currently logged in user has no right to cancel the contract VTTORNDB234567551</i>	- The requestCode, contractCode and cpCode information matches to find a valid contract record - The corresponding contract found is not in the <i>Processing</i> status - The user account requesting the contract cancellation is not the account that created the contract
				d. Successful Contract	- The requestCode,

				cancellation - contractCode: according to the contract code entered - status: success	contractCode and cpCode information matches to find a valid contract record - The corresponding contract found is not in the <i>Processing</i> status - User account has the right to cancel the contract - Successful Contract cancellation
Failure	0x002211 1	False	Contract cannot be cancelled	Details of the format error	The entered data is not in the correct format specified in the Parameters section

4. User Search API

General API Description

URI	{domain}/api/integration/search/user					
Method	POST					
Parameters	Parameter name	Type	nullable	Meaning	Example	
	filter	string	false	Search keywords	Si	
Request body	Header	Content-Type: application/json Authorization: Bearer xxxxxxxxxxxx				
	Example	{"filter": "Si"}				
	Description	System user search api				

Response	Result	Description	Example
	Success	Returns base64 format, when decoded it will output json, for example as follows: <pre>{ "code": "200", "message": "OK", "data": [{ "id": "NWE0ZmQkaHNBKjI\\u003d", "email": "quang.nt@siten.vn", "fullName": "Siten", "phone": "0789131093", "enterpriseId": "NTRmc0EmKjE\\u003d", "userName": "0107311329" }, { "id": "NWE0ZmQkaHNBKjM\\u003d", "email": "quang.nt@siten.vn", "fullName": "Nguyễn Trung Quang", "phone": "0789131093", "enterpriseId": "NTRmc0EmKjE\\u003d", "userName": "0107311329_quang_nt" }, { "id": "NWE0ZmQkaHNBKjEwOA\\u003d\\u003d", "email": "trang.nt@siten.vn", "fullName": "Trang", "phone": "0367214024", "enterpriseId": "NTRmc0EmKjE\\u003d", "userName": "0107311329_003" }], "success": true }</pre> In which - code: 200 - message: OK - data: list of objects - o id: id user - o email: email - o fullName: full name - o phone: số điện thoại - o enterpriseId: User's enterpriseId	<pre>eyJjb2RIIjoiMjAwIiwibWVzc2FnZSI6Ikt9LiwiZGF0YSI6Ilt7XCJpZFwiOlwiTldFMFptUWthSE5CS2pJXFx1MDAzZFWiLFwiZW1haWxcIjpcInF1YW5nLm50QHNpdGVuLnZuXCIsXCJmdWxsTmFtZVwiOlwiU2l0ZW5cIixcInBob25lXCI6XCiwnZg5MTMxMDkzXCIsXCJlbnRlcjByaXNlSWRcIjpcIk5UUm1jMEVtS2pFXXF1MDAzZFWiLFwidXNlck5hbWVcIjpcIjAxMDczMTEzMjlcIn0se1wiaWRcIjpcIk5XRTBabVFrYUhoOktqTVxcdTAwM2RclixcImVtYW1sXCI6XCJxdWFuZy5udEBzaXRlbi52blwiLFwiZnVsE5hbWVcIjpcIk5ndXnhu4VuIFRydW5nIFF1YW5nXCIsXCJwaG9uZVwiOlwiMDc4OTEzMTA5M1wiLFwiZW50ZXJwcmZuIjpcIjYzBFbUtqRVxcdTAwM2RclixcInVzZXJOYW1lX</pre>

		○ userName: Username - success: true	CI6XCIwMTA3Mz ExMzI5X3F1YW5n X250XCJ9LHtcImI kXCI6XCJOV0Uw Wm1Ra2FITkJLak V3T0FcXHUwMD NkXFx1MDAzZFw iLFwiZW1haWxcIj pcInRyYW5nLm50 QHNpdGVuLnZuX CIsXCJmdWxsTmF tZVwiOlwiVHJhbm dcIixcInBob25lXCI 6XCIwMzY3MjE0 MDI0XCIsXCJlbn RlcnByaXNISWRcI jpcIk5UUmljMEVt S2pFXFx1MDAzZ FwiLFwidXNlck5h bWVcljpcIjAxMDc zMTEzMjlfMDAz XCJ9XSIsInN1Y2 Nlc3MiOnRydWV9
	Failure	Returns base64 format, when decoded it will output json, for example as follows: {"code": "0x002914", "message": "Account is not allowed to use this function ", "success": false} In which - Code: error code - Message: response content - Success: false (API status failed)	eyJjb2RlIjojMHgy MDI5MTMiLCJtZ XNzYWdlIjojVGhl IGFjY291bnQgaX Mgbm90IGFsbG93 ZWQgdG8gYWNj ZXNzIiwic3VjY2V zcyI6ZmFsc2V9

List of DTOs and descriptions

Describe the API return result

Case	Code	Successes	Message	Data	Conditions of occurrence
Success	200	True	OK	According to the successful response description format	Ensure: - Login account information has rights to use this api
Failure	0x002914	False	Account is not allowed to use this function	Null	User does not login according to API login flow 1

5. Province List API

General API Description

URI	{domain}/api/integration/cities					
Method	GET					
Parameters	Parameter name	Type	nullable	Meaning	Example	
Request body	Header	Authorization: Bearer xxxxxxxxxx				
	Descriptio	Province List API				

	n		
	Result	Description	Example
Response	Success	Returns base64 format, when decoded it will output json, for example as follows: <pre>{ "code": "200", "message": "OK", "data": [{ "id": "A076", "name": "An Giang", "fullName": "An Giang", "updated": "Feb 21, 2023 6:56:26 PM", "created": "Feb 21, 2023 6:56:26 PM", "status": true, "description": "AG" }, { "id": "B781", "name": "Bac Lieu", "fullName": "Bac Lieu", "updated": "Feb 21, 2023 6:56:26 PM", "created": "Feb 21, 2023 6:56:26 PM" }] }</pre>	

		<pre> ", "status":true, "description":"BL" }], "success":true } </pre> Trong đó - code: 200 - message: OK - data: list of objects - o id: Province code - o name: Province name - o fullName: Province name - o status: Status (true/false) - o created: Creation date - o updated: Update date - o description: description - success: true	
	Failure	Returns base64 format, when decoded it will output json, for example as follows: <pre> {"code":" 0x002914","message":" Account is not allowed to use this function ", "success":false} </pre> In which - Code: error code - Message: response content - Success: false (API status failed)	<pre> eyJjb2RlIjoiMHgy MDI5MTMiLCJtZ XNzYWdlIjoiVGhl IGFjY291bnQgaX Mgbm90IGFsbG93 ZWQgdG8gYWNj ZXNzIiwic3VjY2V zcyI6ZmFsc2V9 </pre>

List of DTOs and descriptions

Describe the API return result

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	According to the successful response description format	Ensure: - Login account information has right to use this api
Failure	0x002914	False	Account is not allowed to use this function	Null	User does not login according to API login flow 1

6. District List API

General API Description

URI	{domain}/api/integration/districts					
Method	GET					
Parameters	Parameter name	Type	nullable	Meaning	Example	
Request	Header	Authorization: Bearer xxxxxxxxxx				

body	Description	District List API	
Response	Result	Description	Example
	Success	Returns base64 format, when decoded it will output json, for example as follows: <pre>{ "code": "200", "message": "OK", "data": [{ "id": "T054008", "cityId": "T054", "name": "A network ", "fullName": " A Thua Thien Hue network" "status": true }, { "id": "K077009", "cityId": "K077", "name": "An Bien", "fullName": "An Bien Kien Giang", "status": true }], "success": true }</pre>	

		<pre>} In which - code: 200 - message: OK - data: list of objects o id: District code o cityId: Province code o name: District name o fullName: District – Province name o status: Status (true/false) - success: true</pre>	
	Failure	Returns base64 format, when decoded it will output json, for example as follows: {"code": "0x002914", "message": "Account is not allowed to use this function ", "success": false} In which - Code: error code - Message: response content - Success: false (API status failed)	<pre>eyJjb2RlIjoiMHgy MDI5MTMiLCJtZ XNzYWdlIjoiVGhl IGFjY291bnQgaX Mgbm90IGFsbG93 ZWQgdG8gYWNj ZXNzIiwic3VjY2V zcyI6ZmFsc2V9</pre>

List of DTOs and descriptions

Describe the API return result

Case	Code	Successes	Message	Data	Conditions of occurrence
Success	200	True	OK	According to the successful response	Ensure: - Login account information

				description format	has right to use this api
Failure	0x0029 14	False	Account is not allowed to use this function	Null	User does not login according to API login flow 1

7. Commune List API

General API Description

URI	{domain}/api/integration/wards				
Method	GET				
Parameters	Parameter name	Type	nullable	Meaning	Example
Request body	Header	Authorization: Bearer xxxxxxxxxx			
	Description	Commune List API			
Response	Result	Description			Example
	Success	Returns base64 format, when decoded it will output json, for example as follows: { "code":"200", "message":"OK",			

		<pre> "data":[{ "id":"Q510016003", "districtId":"Q510016", "name":"Za Hung", "fullName":"Za Hung Dong Giang Quang Nam", "status":true }, { "id":"Q510007001", "districtId":"Q510007", "name":"Zhuôih", "fullName":" Zhuôih Nam Giang Quang Nam", "status":true }], "success":true } </pre> Trong đó - code: 200 - message: OK - data: list of objects ○ id: Commune code ○ districtId: District code ○ name: Commune name ○ fullName: Name of commune - district -	
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		province ○ status: Status (true/false) - success: true	
	Failure	Returns base64 format, when decoded it will output json, for example as follows: {"code": "0x002914", "message": "Account is not allowed to use this function ", "success": false} In which - Code: error code - Message: response content - Success: false (API status failed)	eyJjb2RlIjoiMHgyMDI5MTMiLCJtZXNzYWdlIjoiVGhlIGFjY291bnQgaXMgbm90IGFsbG93ZWQgdG8gYWNjZXNzIiwic3VjY2VzcyI6ZmFsc2V9

List of DTOs and descriptions

Describe the API return result

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	According to the successful response description format	Ensure: - Login account information has right to use this api
Failure	0x002914	False	Account is not allowed to use this function	Null	User does not login according to API login flow 1

8. API execute contract signing flow

General API Description

URI	{domain}/api/integration/start-sign-flow?requestCode={requestCode}&contractCode={contractCode}					
Method	GET					
Parameters	Parameter name	Type	null able	Meaning	Example	
	requestCode	String	False	RequestCode when creating a contract sent by the partner. Note: requestCode must implement encodeURI		
	contractCode	String	False	Contract code Note: contractCode must implement encodeURI		
	Header	Authorization: Bearer xxxxxxxxxxxx				
Request body	Description	API execute contract signing flow				
Response	Result	Description				Example
	Success	Returns base64 format, when decoded it will output json, for example as follows: { "code":"200", "message":"OK",				

		<pre>"data": {"contractCode":"0ZHMkZCNzQSYqJio5", "requestCode":"0ZHMkZCNzQSYqJio5" } "success":true }</pre> In which - code: 200 - message: OK - data: list of objects - o contractId: Contract code success: true	
	Failure	Returns base64 format, when decoded it will output json, for example as follows: <pre>{"code":" 0x002914","message":"Account is not allowed to use this function ", "success":false}</pre> In which - Code: error code - Message: response content - Success: false (API status failed)	<pre>eyJjb2RlIjoiMHgyMDI5MTMiLCJtZXNzYWdlIjoiVGhlIGFjY291bnQgaXMgbm90IGFsbG93ZWQgdG8gYWVjZXNzIiwic3VjY2VzcyI6ZmFsc2V9</pre>

List of DTOs and descriptions

Describe the API return result

Case	Code	Success	Message	Data	Conditions of occurrence
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Success	200	True	OK	According to the successful response description format	Ensure: - Users log in according to the API login flow (1) - The requestCode, contractCode and cpCode information matches to find a valid contract record - The corresponding contract found is in <i>Draft</i> status - User account has right to execute contract signing flow - Execute the contract signing flow successfully
Failure	0x002914	False	Account is not allowed to use this function	Null	User does not login via API login flow (1)
			<i>Contract with cp code is ORDER_SYS, code is VTTORNDB234567551, request code is NDB234567551 which do not exist in the system</i>	Null	Contract error does not exist The requestCode, contractCode and cpCode information (according to the login information) do not match to find a valid contract record of the user unit that is logging in

			<i>Contract</i> <i>VTTORNDB2345</i> <i>67551 is not in</i> <i>Draft status so the</i> <i>signature flow is</i> <i>not performed</i>	Null	Contract error is not in Draft status - The requestCode, contractCode and cpCode information matches to find a valid contract record - The corresponding contract found is not in <i>Draft</i> status
			<i>The currently</i> <i>logged in user</i> <i>does not have</i> <i>right to execute</i> <i>the contract</i> <i>signing flow</i> <i>VTTORNDB2345</i> <i>67551</i>	Null	Contract errors are canceled but not by the contract creator - The requestCode, contractCode and cpCode information matches to find a valid contract record - The corresponding contract found is not in <i>Draft</i> status - The user account requesting the contract cancellation is not the account that created the contract

9. API download file

General API Description

URI	<i>{domain}/api/integration/get-files?requestCode={requestCode}&contractCode={contractCode}</i>	
Method	GET	

Parameters	Parameter name	Type	nullable	Meaning	Example
	requestCode	String	False	RequestCode when creating a contract sent by the partner. Note: requestCode must implement encodeURI	
	contractCode	String	False	Contract code Note: contractCode must implement encodeURI	
	Header	Authorization: Bearer xxxxxxxxxxxx			
Response	Result	Description			Example
	Success	Return zip file			
	Failure	When a valid file is found, return a successful base64 encoded result, when decoded it will output json, for example as follows: <pre>{"code":"0x00803","message":" File does not exist ","success":false}</pre> In which: - Success: false (API status failed) - Code: error code (0x00803, 0x002217, 0x002218 or 0x002210, 0x002227)			eyJjb2RlljoiMHgwMDgwMyIsIm1lc3NhZ2UiOiJU4bqtcCB0aW4ga2jDtG5nIHThu5NuIHThuqFpliwic3VjY2VzcyI6ZmFsc2V9

		- Message: error content	

Describe the API return result

Case	Code	Success	Message	Data	Conditions of occurrence
Success				Data file	Ensure: - URL request is in correct format <i>http(s)://domain/api/integration/get-files/{requestCode}/{contractCode}</i> - Find the contract file corresponding to requestCode, contractCode - Users have the right to download the contract file + Or the user is the contract creator + Or the user has the right to Manage company documents that have created a contract of the corresponding type - No error occurred while downloading the contract file
	0x00803		File does not exist	Null	The contract file to download corresponding to the requestCode and contractCode transmitted in by the unit where the user is logged in could not be found
	0x002210		The currently	Null	- Find the contract file corresponding to requestCode, contractCode

			logged in user does not have rights to download the file		- The user does not have enough rights to download the contract file, and is not satisfied: + Or the user is the contract creator + Or the user has the right to Manage company documents that have created a contract of the corresponding type
	0x002218		Download error contract file	Null	System error occurred while downloading contract file

10. API Get request processing status

General API Description

URI	{domain}/api/integration/get-request-result?requestCode={requestCode}				
Method	GET				
Parameters	Parameter name	Type	nullable	Meaning	Example
	requestCode	String	False	requestCode when creating a contract sent by the partner. Note: requestCode must implement encodeURI	

	Header	Authorization: Bearer xxxxxxxxxxxx	
Response	Result	Description	Example
	Success	When the information is successfully retrieved, the result is returned in base64 encoded form, when decoded it will be json, for example as follows:  get-sign-result-requestcode.json In which: - Success: true (API status successful) - Code: success code (200) - Message: successful response content (OK) - Data: Detailed information about the current status of the contract. Description by NotificationDTO object	
	Failure	When validating error information, return base64 encoded failure result, when decoded it will be json, for example as follows: <pre>{"code": "0x002216", "message": "Unable to get signing result information", "data": ["Contract code does not exist"], "success": false}</pre> Trong đó: - Success: false (API status failed) - Code: error code (0x002216) - Message: error response content	eyJjb2RlIjojMHgwMDIyMTExIiwibWVzc2FnZSI6Imtow7RuZyB0aOG7gyBo4buneSB04bujcCDEkeG7k25nIiwZGF0YSI6IltcIlRy4bqhbm cgdGjDoWkgY+G7p2EgaOG7o3AgxJHhu5NuZyBUVUFOQ0EgcGjhuqNpIGzDoC

		Data: input data validation error details	BjYW5jZWxcIl0i LCJzdWNjZXNz IjpmYWxzZX0=

List of DTOs and descriptions

- *NotificationDTO*

Fields name	nullable	Type	Meaning
status	False	String	Message states
errorCode	True	String	Message error codes
description	True	String	Description of message or error code
requestCode	False	String	Request code of Contract creation
listContractResult	True	List<ContractResultDTO>	Detailed list of each contract processed in the current contract creation request (requestCode)

- *ContractResultDTO*

Fields name	nullable	Type	Meaning
contractCode	False	String	Contract code
status	False	String	Contract processing status: SUCCESS : Successful creation FAILED : Failed creation
errorCode	True	String	Error code if failed creation
description	True	String	Contract Creation Status Description
timeProcess	True	String	Processing time
contractReferences	True	List<ContractReferenceDTO>	Results of attaching contracts/ affiliate document

- ***ContractReferenceDTO – Information of the contract/ affiliate document***

Fields name	nullable	Type	Description
code	false	String	Code of the contract/ affiliate document
status	False	String	Link Attachment Status SUCCESS : success FAILED : failed
description	True	String	Detailed description of processing results

Describe the API return result

Case	Code	Successes	Message	Data	Conditions of occurrence
Successes	200	True	OK	According to the successful response description format	Ensure: - URL request is in correct format

Description	ErrorCode
CustomerCode {{customerCode}} already exists in the unit's customer list	CUSTOMER_ERROR

11. API Get contract processing status

General API Description

URI	<i>{domain}/api/integration/get-contract-result?requestCode={requestCode}&contractCode={contractCode}</i>	
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Method	GET				
Parameters	Parameter name	Type	nullable	Meaning	Example
	requestCode	String	False	RequestCode when creating a contract sent by the partner. Note: requestCode must implement encodeURI	
	contractCode	String	False	Contract code Note: contractCode must implement encodeURI	
	Header	Authorization: Bearer xxxxxxxxxxxx			
Response	Result	Description			Example
	Success	When the information is successfully retrieved, the result is returned in base64 encoded form, when decoded it will be json, for example as follows:  get-sign-result-contractcode.json In which: - Success: true (API status successful) - Code: success code (200)			

		- Message: successful response content (OK) - Data: Detailed information about the current status of the contract. Description by NotificationDTO object	
	Failure	When validating error information, return base64 encoded failure result, when decoded it will be json, for example as follows: <pre>{"code": "0x002216", "message": "Unable to get signing result information", "data": "[\"Contract code does not exist\"]", "success": false}</pre> Trong đó: - Success: false (API status failed) - Code: error code (0x002216) - Message: error response content Data: input data validation error details	eyJjb2RlljoiMHg wMDIyMTEwIiw ibWVzc2FnZSI6I ktow7RuZyB0aO G7gyBo4buneSB o4bujcCDEkeG7 k25nliwiZGF0YS I6IltcIlRy4bqhbm cgdGjDoWkgY+ G7p2EgaOG7o3 AgxJHhu5NuZy BUVUFOQ0Egc GjhuqNpIGzDoC BjYW5jZWxcIl0i LCJzdWNjZXNz IjpmYWxzZX0=

List of DTOs and descriptions

- *NotificationDTO*

Fields name	nullable	Type	Meaning
errorCode	True	String	Message error codes Details in table: List of error codes and error descriptions

decscription	True	String	Description of message or error code Details in table: List of error codes and error descriptions
requestCode	False	String	Request code of Contract creation
contractCode	True	String	Contract status needs Message
contractStatus	True	String	Contract status needs Message: DRAFT : In draft status PROCESSING : In processing status FINISHED : Finished REJECTED : Fejected CANCEL : Cancel
urlDownloadFile	True	String	Contract file download link
contractDetailFlow	True	List<PartnerDTO>	Detailed information about the contract signing flow
handledObject	True	HandledObjectDTO	Information about the subject performing the impact on the contract
nextHandlingObject	True	NextHandlingObjectDTO	The party that creates the contract needs to process it: approve, sign
listContractResult	True	List<ContractResultDTO>	Detailed list of each contract processed in the current contract creation request (requestCode)
contractReferences	True	List<ContractReferenceDTO>	Results of attaching contracts/ affiliate documents (if any)

- **PartnerDTO**

Fields name	nullable	Type	Meaning
partnerDocumentNumber	False	String	Customer document number
status	False	String	Status
order	False	int	Order
signerInfoList	True	List string	List of signatory information

		JSON	
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- ***SignerInfoDTO***

Fields name	nullable	Type	Meaning
username	False	String	Username
status	False	String	Status
order	False	int	Order
userPhone	False	String	User's phone number
userEmail	False	String	User's email
signMethod	True	String	Signing method

- ***NextHandlingObjectDTO***

Fields name	nullable	Type	Meaning
username	False	String	User needs to do next processing
role	False	String	User needs to perform the operation: APPROVE : Approve SIGN : Sign
handlingUrl	False	String	Order

- ***ContractReferenceDTO – Information of contracts/ affiliate documents***

Tên Fields	nullable	Type	Description
code	false	String	Code of contracts/ affiliate documents
status	False	String	Link Attachment Status SUCCESS : success FAILED : failed

description	True	String	Detailed description of processing results
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Describe the API return result

Case hợp	Code	Succes s	Message	Data	Conditions of occurrence
Succes s	200	True	OK	According to the successful response description format	Ensure: - URL request is in correct format <i>http(s)://domain/api/integration/get-sign-result/{requestCode}/{contractCode }</i> - RequestCode/contractCode exists for the currently logged in user - The user has the right to get the request information + Or the user is the contract creation + Or the user has the right to Manage documents of the company that has created the contract - In requestCode/contractCode the contracts

					have been finished [<i>Deleted</i>]
Failure	0x00104	False	Invalid request	Null	URL request is not in correct format <i>http(s)://domain/api/integration/get-sign-result/{requestCode}/{contractCode}</i>
	0x002216		Unable to get processing result information	RequestCode does not exist	- URL request is in correct format - The input requestCode/contractCode does not exist according to the CpCode of the unit where the user is logging in
	0x002216		User does not have permission to operate	Error details, examples: <i>User does not have permission to get requestCode information</i> <i>NDB234567550</i>	- URL request is in correct format - RequestCode/contractCode exists for the currently logged in user - User does not have permission to get request information, no guarantee: + Or the user is the one who creates the request + Or the user with the company's Document

					Management rights created the request
	0x002216		Unable to get signature result information	Error details, examples: <i>requestCode</i> <i>NDB234567550</i> has a contract that hasn't finished processing yet	- URL request is in correct format - RequestCode/contractCode exists for the currently logged in user - The user has the right to get the request information - There is an unfinished contract in requestCode [<i>Deleted</i>] ☐ Do not return the results of the corresponding request contracts

12. API Contract Template List

General API Description

URI	{domain}/api/integration/document-type				
Method	GET				
Parameters	Parameter name	Type	nullable	Meaning	Example
Request body	Header	Authorization: Bearer xxxxxxxxxx			
	Description	Api gets a list of Contract templates			

	Results	Description	Example
	Success	Returns base64 format, when decoded it will output json, for example as follows: <pre>{ "code": "200", "message": "OK", "data": [{ "code": "9_ck", "name": "9_ck", "isAutoSign": false, "isOtpSign": false, "status": true, "serviceType": 589, "relationAutoSign": false, "relationStatus": true, "relationOtpSign": false, "hasChildren": false }, { "code": "Ma_mau_hd_230525172234", "name": " Contract template for providing hosting and domain name services ", "isAutoSign": false, "isOtpSign": false, </pre>	

		- Code: error code - Message: response content - Success: false (API status failed)	
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List of DTOs and descriptions

a. *DocumentTypeDTO*

Fields name	nullable	Type	Description
code	false	String	Template code
name	false	String	Template name
status	false	Boolean	Active state
serviceType	true	Number	Contract type of Template
relationStatus	false	Boolean	Link status
hasChildren	true	Boolean	Does the template have accompanying sub- templates?

Describe the API return result

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	According to the successful response description	Ensure: - Login account information has permission to use this api

				format	
Failure	0x0029 14	False	Account is not allowed to use this function	Null	User does not login according to API login flow 1

13. API Template Details

General API Description

URI	{domain}/api/integration/document-type/{code}				
Method	GET				
Parameters	Parameter name	Type	null able	Meaning	Example
	code	String	false	Template code	Ma_mau_hd_23 0525172234
Request body	Header	Authorization: Bearer xxxxxxxxxxxx			
	Description	Api retrieves template details: + General information about the template + mergeFields list (input) + Internal template signature flow + Template signature list			
Response	Result	Description			Example

	Success Returns base64 format, when decoded it will output json, for example as follows: <pre>{ "code": "200", "message": "OK", "success": "true", "data": {} }</pre> In which - Response: <table><tr><th>Field name</th><th>Data</th><th>Meaning</th></tr><tr><td>success</td><td>Boolean</td><td>Success / Failed</td></tr><tr><td>code</td><td>String</td><td>Success code: 200</td></tr><tr><td>message</td><td>String</td><td>Successful description content (OK)</td></tr><tr><td>data</td><td>Document TypeDetail DTO</td><td>Output data</td></tr></table>	Field name	Data	Meaning	success	Boolean	Success / Failed	code	String	Success code: 200	message	String	Successful description content (OK)	data	Document TypeDetail DTO	Output data	 result.json
Field name	Data	Meaning															
success	Boolean	Success / Failed															
code	String	Success code: 200															
message	String	Successful description content (OK)															
data	Document TypeDetail DTO	Output data															
	Failure Returns base64 format, when decoded it will output json, for example as follows: <pre>{"code": "0x002914", "message": "Account is not allowed to use this function ", "success": false}</pre> In which - Code: error code - Message: response content - Success: false (API status failed)	eyJjb2RlIjoiMHgyMDI5MTMiLCJtZXNzYWdlIjoiVGhlIGFjY291bnQgaXMgbm90IGFsbG93ZWQgdG8gYWVjZXNzIiwic3VjY2VzcyI6ZmFsc2V9															

List of DTOs and descriptions

a. *DocumentTypeDetailDTO*

Fields name	nullable	Type	Description
code	false	String	Contract template code
name	false	String	Template name
status	false	String	Status ID
serviceType	false	Number	Contract Type ID of the Template
url	false	String	Url File docx Used to download template docx file
pdfUrl	false	String	Url file pdf Used to download template pdf files
mergeFields	false	List<DcField>	mergeField configuration information
configFlowSigns	true	List<SignerInfoDTO>	Internal template signature flow information SignerInfoDTO referenced at III.2.n
configSignatures	true	List<DcSignatureDTO>	Signature template information

b. DcField

Fields name	nullable	Type	Read-only	Description
fieldId	false	String	True	ID of field No need to transmit When adding new contract, the system generates according to UID.random For example: 586bd0c4-b439-483b-8511-d0a26cd670b3 Make sure the field id's are not duplicated
fieldConfig	false	DcfieldConfig DTO	True	Field configuration
children	true	List<DcField>	True	The subfields are inside
data	true	List<DataOptionDTO>	True	Option list of Selected Value if it is a select field
value	true	String	False	Value entered for field when creating Contract When entering, the value will be received from the input. When selected, the value will be received from data List<DataOptionDTO>
valueId	true	String	False	Value entered for field when creating

				Contract Only for Select attribute ID of the value (when selected from options) Data taken from data List<DataOptionDTO>
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c. DcfieldConfigDTO

Fields name	nullable	Type	Description
orderNo	false	Number	Input order in template file
fieldConfigId	false	Number	ID field config
name	false	String	Field config name
code	false	String	Field config code
fixedFieldCode	true	String	Link field code to process
mergeField	false	String	MergeField
defaultValue	true	String	Default value
hide	true	Boolean	Hide / show on input form
group	true	Boolean	Is the field a group type (groups usually have children)
startGroup	true	String	Grouping starting point
endGroup	true	String	Grouping end point

multiple	true	Boolean	Can the content in the field be duplicated (e.g. data table)
type	false	DcFieldTypeDTO	Field type
dataType	false	DcDataTypeDTO	Field data type
category	true	DcCategoryDTO	Category Type
refCategoryField	true	DcCategoryField DTO	Link category field type
validations	true	List<DcFieldVali dationDTO>	List of field validations
fixedFunction	true	DcFixedFunction DTO	Function fixed to mergeField
fixedFieldCode	true	String	Source mergeField code to fix the function
formula	true	String	Formula to calculate field value (similar to excel)

d. DcfieldTypeDTO

Fields name	nulla bl e	Type	Description
fieldTypeId	false	Number	Merge field type ID
code	false	String	Merge field type codes include: - textbox: text

			- number: number - date: date - phone: phone number - email: Email - ma_so_thue: Tax code - number_money_format: number money format - number_percent_format: Percent - radiobox: Radiobox - checkbox: Checkbox - combobox: Combobox Refer to the section <code>DcFieldType</code> Description Table for details..
name	false	String	The merge field type name corresponds to the code - Text - Number - Date - Phone number - Email - Tax code - Number money format - Percent - Radiobox

			- Checkbox - Combobox
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DcFieldType types description table

Fields Name	Description
textbox: Text	Enter free text
number: Number	Only numeric characters are allowed: 0-9
date: Date	Date data type Only dd/MM/yyyy input format is allowed
phone: phone number	Customer or contract creator phone number. Format: Leading zero followed by > 8 digit string. Example: 0979989999 Phone number regulations in Vietnam. Have a leading 0, followed by a string of > 8 digits. Example: 0979989999 maxLength = 20
email: Email	The email format is as follows:emailaccount@domain.com 1. Account name (before the @ sign): contains letters or numbers. 2. Sign @ 3. The part after the @ sign (domain): this part can contain letters or numbers, the "." sign and finally the level of the domain name.
ma_so_thue: Tax code	Validate the value is formatted according to the tax code structure The format of Tax Code includes 2 formats as follows: Format 1: < ten digits> Example: 8082940359 Format 2: <ten digits>-<three digits> Example:

	8082940359-123 - Check the 10-digit code structure (Format 1): Number A = $31 \times \text{first number on the left} + 29 \times \text{second number} + 23 \times \text{third number} + 19 \times \text{fourth number} + 17 \times \text{fifth number} + 13 \times \text{sixth number} + 7 \times \text{seventh number} + 5 \times \text{eighth number} + 3 \times \text{ninth number}$. Divide number A by 11, the remainder is number B, subtract number B from 10 to equal the 10th number in the tax code is correct, otherwise it is incorrect. - Check the 13-digit code structure (Format 2): includes checking the 10-digit code structure and checking the value of the last 3 digits. The last 3 digits must be entered in full.
number_money_format: number money format	Enter money, display in format: 1,000,000.00 + The ,sign separates thousands + The . sign separates decimals
number_percent_format: Percent	Number input format, supports decimal places. Example: 10; 5.5
radiobox: Radiobox	Input form: Radiobutton List of options: taken from DcField.data + value = DataOptionDTO.value + valueId = DataOptionDTO.id
checkbox: Checkbox	Input form: Checkbox List of options: taken from DcField.data + value = DataOptionDTO.value + valueId = DataOptionDTO.id
combobox: Combobox	Input form: Combobox List of options: taken from DcField.data + value = DataOptionDTO.value

	+ valueId = DataOptionDTO.id
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e. DcDataTypeDTO

Fields name	nullable	Type	Description
dataTypeId	false	Number	Data type ID
code	false	String	Data type code - input: Input - select: Select - formula: Formula - tham_chieu_ben_lap: the Creator reference - tham_chieu_ben_khach_hang: Customer Reference - fixed: fixed - customer: Customer - contract_code: Contract code For details, refer to the table DcDataType Description Table
name	false	String	Data type name - Input - Selecyc - Formula

			- Creator reference - Customer Reference - Fixed - Customer - Contract code
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DcDataType Description Table

Fields Name	Description
input: Input	Field type is Select – mapping with DcFieldType to create the correct input type.
select: Select	Field type is Select – mapping with DcFieldType to create the correct input type.
formula: Formula	Field type is Formula type – Integrator can rely on DcfieldConfigDTO.formula field to calculate and generate data. Note: If not integrated in formula calculation style, data can be transmitted in as input: Input
tham_chieu_ben_lap: Creator reference	Field type is a Reference type for the Creator – The integrator can rely on DcCategoryFieldDTO to link to the Creator information field to automatically generate data. Note: If not integrated by reference, data can be transmitted in as input: Input
tham_chieu_ben_khach_hang: Customer Reference	Field type is Customer Reference type – Integrator can rely on DcCategoryFieldDTO to link to Customer information field to generate data automatically.

	Note: If not integrated by reference, data can be transmitted in as input: Input
fixed: Fixed	Includes the following subtypes: Type of converting numbers to words (Example: “104” >> “One hundred and four”) Type of converting numeric money into text money (for example: “900,000” >> “Nine hundred thousand dong ”) Total Type: calculates the total of a column in a dynamic table The integrator can rely on DcFixedFunctionDTO & DcfieldConfigDTO.fixedFieldCode to link to another field to automatically generate data. Lưu ý: Nếu không tích hợp theo kiểu cố định thì có thể truyền vào dữ liệu như dạng input: Nhập
customer: Customer	The integrator uses this to map information to the Customer_Reference_Type Note: do not transmit data to this mergeField.
contract_code: Contract code	The integrator does not need to transmit data into this mergeField, the system will automatically take the “Contract Code” as the value.

f. DcCategoryDTO

Fields name	nullable	Type	Description
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categoryId	false	Number	Category ID
code	false	String	Category code
name	false	String	Category name

g. DcCategoryFieldDTO

Fields Name	nulla bl e	Type	Description
categoryFieldId	false	Number	ID of the link to the field
code	false	String	Link code to
name	false	String	Link name to
category	false	DcCategoryDTO	Link Categories to

h. DcFieldValidationDTO

Fields NAME	nulla bl e	Type	Description
validationId	false	Number	Validation ID
code	false	String	Validation code
name	false	String	Validation name
validationValue	false	String	Validation value

i. DcFixedFunctionDTO

Fields Name	nulla bl e	Type	Description
fixedFunctionId	false	Number	Function ID
code	false	String	Function code
name	false	String	Function name

j. DataOptionDTO

Fields name	nulla bl e	Type	Description
id	false	Number	Selection ID
code	false	String	Selection code
value	false	String	Selection value

k. DcSignatureDTO

Fields Name	nulla bl e	Type	Description
signatureId	false	Number	Signature ID

name	false	String	Configuration signature name in template file Example: # Representative_of_Party_A #
object	false	String	Signatory Classification - ENTERPRISE: Internal - CUSTOMER: Customer
positions	false	List<DcSignaturePositionDTO>	Position, width of signature

1. *DcSignaturePositionDTO*

Fields Name	nullable	Type	Description
signaturePositionId	false	Number	Signature location ID
page	false	String	Number of pages for signature
width	false	Number	Pixel unit width
height	false	Number	Pixel unit height
main	false	Boolean	Set as main signature

Describe the API return result

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	According to the successful response description format	Ensure: - Login account information has permission to use this api
Failure	0x002914	False	Account is not allowed to use this function	Null	User does not login according to API login flow III.1

14. API Template file download

General API Description

URI	{domain}/api/integration/document-type/get-template -file					
Method	POST					
Parameters	Parameter name	Type	nullable	Meaning	Example	
	url	String	False	File path Taken from api III.13		
	Header	Authorization: Bearer xxxxxxxxxxxx				
Response	Result	Description				Example

	Success	Returns bytes array in format: application/octet-stream	
	Failure	When an invalid file is found, return a successful base64 encoded result, which when decoded will produce json, for example as follows: <pre>{"code":"0x00803","message":" File does not exist ","success": false}</pre> In which: - Success: false (API status failed) - Code: Error code (0x00803, 0x002217, 0x002218 or 0x002210, 0x002227, 0x00115) - Message: error content	<pre>eyJjb2RlljoiMHgwMDgwMyIsIm1lc3NhZ2UiOiJU4bqtcCB0aW4ga2jDtG5nIHThu5NuIHThuqFpIiwic3VjY2VzcyI6ZmFsc2V9</pre>

Describe the API return result

Case	Code	Successes	Message	Data	Conditions of occurrence
Success				Data file data	Ensure: - URL request is in correct format - Users have the right to download template files - Or the user has management rights - No error occurred while uploading the template file
	0x002210		The currently	Null	- The user does not have sufficient permission to download the template

			logged in user does not have permission to download the file		file
	0x00803		File does not exist	Null	A system error occurred while loading the template file
	0x00115		Incorrect input information	Null	When not transmitting url

15. API Delete contract

General API Description

URI	{domain}/api/integration/delete-contract				
Method	POST				<i>RESTful API</i>
Parameters	Parameter name	Type	null able	Meaning	Example
	requestCode	string	false	RequestCode of the order	2105202039-120-234CM_VFREE
	contractCodeList	List string json	false	List of contract codes	["VT_TEMPLATE-ANHTHT1", "VT_TEMPLATE-ANHTHT12"]

Request body	Header	Content-Type: application/json Authorization: Bearer xxxxxxxxxxxx	
	Example	{ "requestCode": "2105202039-120-234CM_VFREE", "contractCodeList": ["VT_TEMPLATE-ANHTHT1", "VT_TEMPLATE-ANHTHT12"] }	
	Description	Function to delete requestCode contract(s)	
Response	Result	Description	Example
	Success	When deleting successfully, return the base64 encoded success result, when decoded it will be json, for example as follows: <pre>{ "code": "200", "message": "OK", "data": "[{ \"contractCode\": \"VT_TEMPLATE-ANHTHT1\", \"status\": \"fail\", \"message\": \"Contract with cp code is <i>ORDER_SYS</i>, code là <i>VT_TEMPLATE-ANHTHT1</i>, request code is <i>2105202039-120-234CM_VFREE</i> which do not exist in the system \" }, { \"contractCode\": \"VT_TEMPLATE-ANHTHT12\", \"status\": \"success\" }]\", \"success\": true }</pre> In which: - Success: true (API status successful) - Code: success code (200)	

		- Message: successful response content (OK) - Data: Detailed response on each contract processing - o contractCode: contract code - o status: success/ fail - o message: Contract result update error details	
	Failure	When deleting fails, return the base64 encoded failure result, when decoded it will be json, for example as follows: <pre>{"code":"0x016001","message":"Cannot delete contract ","data":["/Depending on the system error message /"],"success":false}</pre> In which: - Success: false (API status failed) - Code: error code (0x016001) - Message: error response content - Data: input data validation error details	

Describe the API return result

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	Each contract of requestCode is responded to in one of the following cases	
				a. Contract error does not exist - contractCode: according to the contract code	The requestCode, contractCode and cpCode information (according to the login

				entered - status: fail - message: Error message details Example: <i>Contract with cp code is ORDER_SYS, code is VT_TEMPLATE-ANHHT1, request code is 2105202039-120-234CM_VFREE which do not exist in the system</i>	information) do not match to find a valid contract record of the user unit that is logging in
				b. Contract error is not in Draft status - contractCode: according to the contract code entered - status: fail - message: Error message details Example: <i>Contract VT_TEMPLATE-ANHHT1 is not in draft status so it cannot be deleted</i>	- The requestCode, contractCode and cpCode information matches to find a valid contract record - The corresponding contract found is not in Draft status
				c. Contract errors are canceled but not by the contract creator - contractCode: according to the contract code	- The requestCode, contractCode and cpCode information matches to find a valid contract record - The corresponding

				entered - status: fail - message: Error message details Example: <i>The currently logged in user does not have the right to delete the contract</i> VT_TEMPLATE-ANHHTH T1	contract found is not in <i>Draft</i> status - The user account requesting the contract cancellation is not the account that created the contract
				d. Contract error has an appendix - contractCode: according to the contract code entered - status: fail - message: Error message details Example: <i>You must delete the child document before deleting the parent document</i>	- The requestCode, contractCode and cpCode information matches to find a valid contract record - The corresponding contract found is not in <i>Draft</i> status - The user account requesting the contract cancellation is the account that created the contract - The contract has appendices
				d. Successfully deleted contract	- The requestCode, contractCode and

				- contractCode: according to the contract code entered - status: success	cpCode information matches to find a valid contract record - The corresponding contract found is in <i>Draft</i> status - User account has the right to delete the contract - Successfully deleted the contract
Failure	0x016001	False	Cannot delete contract	System error details	System error

16. API get list of MySign digital certificates

General API Description

URI	{domain}/api/integration/get-cert-cloud-ca				
Method	POST				
Parameters	Parameter name	Type	null able	Meaning	Example
	cloudCaUsername	string	false	My Sign Account	034096000677
	providerCode	string	false	Default: "CLOUD_CA_VIETTEL"	
Request	Header	Content-Type: application/json			

body		Authorization: Bearer xxxxxxxxxx	
	Example	<pre>{ "providerCode": "CLOUD_CA_VIETTEL", "cloudCaUserId": "MST_034096000677" }</pre>	
	Description	Lấy danh sách CTS MySign	
Response	Result	Description	Example
	Success	Returns the base64 encoded successful result, when decoded it will output json, for example as follows:  get-cloudca.json In which: - Success: true (API status successful) - Code: success code (200) - Message: successful response content (OK) - Data: List of MySign Account Digital Certificate Details	
	Failure	The failed result is base64 encoded, when decoded it will output json, for example as follows: <pre>{"code":"0x016029","message": "providerCode cannot be empty ","data": "[/]Depending on the system error message [/]", "success":false}</pre>	

		In which: - Success: false (API status failed) - Code: error code (0x016029) - Message: error response content - Data: input data validation error details	
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List of DTOs and descriptions

a. cloudCADTO - response

Fields Name	null able	Type	Description
certificateName		String	Digital Certificate Name
serialNumber		String	Digital Certificate Number
taxCode		String	Tax code
activeDate		Date	Active date
expireDate		Date	Expiry date
issuedBy		String	Supplier
subjectDN		String	
signAlgo		String	
distinguishedName		String	
credentialId		String	
cloudCaUserId		String	MySign Account

certificates		List<String>	
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Describe the API return result

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	 get-cloudca.json	Success
Failure	0x016027	False	Provider Code does not exist	NULL	Transmitted incorrect providerCode
Failure	0x016028	False	CloudCa Username cannot be empty	NULL	Leave input cloudCaUserId blank
Failure	0x016029	False	Provider Code cannot be empty	NULL	Leave input ProviderCode blank

17. API signature

General API Description

URI	<u><i>{domain}/api/integration/digital-certificate/sign</i></u>				
Method	POST				<i>RESTful API</i>
Parameters	Parameter name	Type	nullable	Meaning	DTO Information

	requestCode	String	false	Contract creation request code Retrieved from API to view Contract results	
	contractCode	String	false	Contract code requires signature Retrieved from API to view Contract results	
	typeCertificate	String	true	Type of Digital Certificate to Sign: + NULL if approved NO DIGITAL CERTIFICATE. + "USB" if signed with usb token. + "CLOUD_CA" if signed with MySign. + "OTP" if signed by otp.	
	action	String	false	Actions to manipulate API: + GENERATE_HASH: To generate hash code for usb or generate otp for signing. + SIGN: To Approve or Sign	

	comment	String	true	- Note - Maxlength: 250	
	digitalCertificate	Object	true	Digital Certificate Information. + null: if approved NO DIGITAL CERTIFICATE.	DigitalCertificateDTO
	signPerson	Object	false	Information of the person signing.	SignPersonDTO
	imageSign	Object	true	Signature image information + null: If approved NO image.	ImageSignDTO
Request body	Header	Content-Type: application/json Authorization: Bearer xxxxxxxxxxxx			
	Example				
	Description	API Signing for integrated 3rd system			
Response	Result	Description			Example
	Success	When receiving information successfully, it returns the base64 encoded result, when decoded it will output json as follows: {"success": true, "code": "OK", message: "OK"}			
	Failure	Returns the failure result and error details, the content is base64 encoded, when decoded it will be json, for example as follows:			

		{“success”: false, “code”: “0x016030”, message: “The login session is not an sContract version. Please login again”}	
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List of DTOs and descriptions

a. DigitalCertificateDTO

Fields name	nullable	Type	Description
cloudCA	True	Object	MySign Digital Certificate Information if signed with MySign + null: If signed with another Digital Certificate
usbToken	True	Object	USB Digital Certificate Information if signed by USB + null: If signed with another Digital Certificate
otpCert	True	Object	Information Get OTP if signing with OTP + null: If signed with another Digital Certificate

b. CloudCADTO

Fields name	nullable	Type	Description
cloudCaUserId	False	String	MySign Account
serialNumber	False	String	Serial Number of the MySign Digital Certificate being signed

c. UsbTokenDTO

Fields name	nullable	Type	Description
about	True	String	Get from get-certs result of usb signing plugin

error	True	String	Get from get-certs result of usb signing plugin
sessionId	True	String	Get from get-certs result of usb signing plugin
isValid	True	String	Get from get-certs result of usb signing plugin
cert	False	UsbTokenCertDTO	USB Digital Certificate Details Get from get-certs result of usb signing plugin
certChain	True	String	Get from get-certs result of usb signing plugin
signatureBase64	True	String	Get from get-certs result of usb signing plugin
contracts	True	String	Get from get-certs result of usb signing plugin
signedFileBase64	True	String	Get from get-certs result of usb signing plugin
signUSBTokenList	True	List<SignUSBTokenDTO>	Result of action GENERATE_HASH, used for action SIGN

d. UsbTokenCertDTO

Fields name	nullable	Type	Description
certBase64	False	String	Get from get-certs result of usb signing plugin
serialNumber	False	String	Get from get-certs result of usb signing plugin
cn	False	String	Get from get-certs result of usb signing plugin
dn	False	String	Get from get-certs result of usb signing plugin
validFrom	False	Date	Get from get-certs result of usb signing plugin
validTo	False	Date	Get from get-certs result of usb signing plugin
issuerDn	False	String	Get from get-certs result of usb signing plugin
keyLength	False	Number	Get from get-certs result of usb signing plugin

e. SignUSBTokenDTO

Fields name	nullable	Type	Description
path	False	String	File path Get from GENERATE_HASH result

hash	False	String	Get from GENERATE_HASH result
signPdf	False	String	Get from GENERATE_HASH result
fileId	False	Number	ID of the file to be signed. Get from GENERATE_HASH result

f. OtpCertDTO

Fields name	nullable	Type	Description
phoneNumber	False	String	Signer's phone number
transactionId	True	String	Signing session ID, returned when getting OTP to sign. Get from GENERATE_HASH result + null: when action is GENERATE_HASH.
otp	True	String	OTP sent to the signer's phone number. + null: when action is GENERATE_HASH.

g. SignPersionDTO

Fields name	nullable	Type	Description
typeSigner	False	String	The type of user being signed: + ENTERPRISE : Signed internally by the Creator + CUSTOMER : Signed by customer
userName	True	String	Username of the user signing. + null: If the Customer signs.
partnerDocumentNumber	True	String	Number of documents the Customer is signing. + null: If signed by an Internal User

h. ImageSignDTO

Fields name	nullable	Type	Description
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clientImage	True	String	Signature image is uploaded by the Signer. + Base64 + format: .png; .jpg; jpeg
serverImage	True	ServerImageDTO	The signature image that the Signer wants the system to generate.

i. ServerImageDTO

Fields name	nullable	Type	Description
image	True	String	Signature image – 1 component in the generated character image. + Base64 + format: .png; .jpg; jpeg
imagePosition	True	String	Position of Signature Image with System Generated Text Content. + left + right + top + bottom + null: If there is no Signature image
ratio	True	String	Ratio between Signature Image and Text Content Calculate from left -> right, from top -> bottom depending on imagePosition Example: imagePosition = left ratio = “3070” ⇒ Signature image: 30% ⇒ Text content: 70%
imagePosition	True	Boolean	There is a green checkmark in the

			signature
fontName	True	String	Font when generating text content + Times-Roman (Default) + null: If not needed
fontStyle	True	String	Italicize text when generating text content + italic + null: If not needed
fontWeight	True	String	Bold text when generating text content + bold + null: If not needed
textField	False	TextFieldDTO	Text content will be generated in the signature image. Key : value

j. *TextFieldDTO*

Fields name	nullable	Type	Description
key	False	String	Field name Example: Signing subject
content	True	String	Information field value Example: Ha Dong Water Company

Description of API Results

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	Null	Ensure: - Input information must be in the correct data format specified in Parameters - Contract file is signed successfully.
Failure	0x016035	False	contractCode cannot be	Null	- Leave contractCode blank

			empty		
Failure	0x016036	False	requestCode cannot be empty	Null	- Leave requestCode blank
Failure	0x016034	False	Customer is not in the signature flow	Null	- Enter the Customer's document number that is not in the signature flow

18. API Get the signature link of customers who are not logged in - sContract

General API Description

URI	{domain}/api/integration/get-sign-link?requestCode={requestCode}&contractCode={contractCode}&documentNumber={documentNumber}				
Method	GET				RESTful API
Parameters	Parameter name	Type	null able	Meaning	Example
	requestCode	String	false	requestCode of the order	2105202039-120-234CM_VFREE
	contractCode	String	false	Contract code	2105202039-120-234CM_VFREE
	documentNumber	String	false	Customer ID Number	0100681592
Request body	Header	Content-Type: application/json Authorization: Bearer xxxxxxxxxxxx			
	Description	The function retrieves the non-login signing link of the sContract session			

		customer	
Response	Result	Description	Example
	Success	Returns the base64 encoded successful result, when decoded it will output json, for example as follows: <pre>{ "code": "200", "message": "OK", "data": { "url": "https://10.58.71.148:8098/sign-anonymous/F24CBB3AA209EF8E9719F70369DA3B7B74CA0FD5D16D0A5BF27E4478D373A8A8/emlkdm4vUGRxN0d1R0pmSjdFa29qQT09/ME1GNGY2YjAvVm93WkRBb0EvdjBEZz09\"}", "success": true } }</pre> In which: - Success: true (API status successful) - Code: success code (200) - Message: successful response content (OK) - Data: Detailed response on each contract processing. - o url: the non-login signing link	
	Failure	Returns base64 encoded failure result, when decoded it will output json, for example as follows: <pre>{ "code": "0x020101", "message": "[/\"Depending on the system error message /\"]", "success": false }</pre> In which: - Success: false (API status failed)	

		- Code: error code (0x020101) - Message: error response content	
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Describe the API return result

Case	Code	Success	Message	Data	Conditions of occurrence
Success	200	True	OK	<pre>{ "code": "200", "message": "OK", "data": { "url": "http://10.58.71.148:8098/sign-anonymous/F24CBB3AA209EF8E9719F70369DA3B7B74CA0FD5D16D0A5BF27E4478D373A8A8/emlkdm4vUGRxN0d1R0pmSjdFa29qQT09/ME1GNGY2YjAvVm93WkRBb0EvdjBEZz09\\\"", "success": true } }</pre>	Success
Failure	0x020101	False	Only sContract sessions are supported !	NULL	Execute with the token of another login session sContract
Failure	0x016036	False	requestCode cannot be empty	NULL	Leave input requestCode blank
Failure	0x016035	False	Contract Code	NULL	Leave ContractCode input blank

			cannot be empty		
Failure	0x020100	False	document Number cannot be empty!	NULL	Leave input documentNumber blank
Failure	0x020102	False	Your contract/document not found!	NULL	No valid contract information found for login account , requestCode , contractCode
Failure	0x020103	False	No customer information found or invalid customer status!	NULL	No customer information found with the provided documentNumber or the current signing customer status is invalid to get the signing link
Failure	0x020104	False	Currently does not support signing without logging in	NULL	Currently not supporting signing without logging in with this customer account at this contract
Failure	0x020105	False	Gen link signing failed,	NULL	Incorrect data, missing data. Please contact administrator for more

			please contact administr ator for more details!		details
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IV. VCONTRACT API DETAILS CALL INTEGRATION PARTNER

Purpose: The APIs in this section are intended to call back to the integration partner system (callback) to notify:

- Contract creation request processing results.
- Contract creation processing results via API.

1. API receive request result

General API Description

URI	<i>http://xxxxx:yyy/zzzzzzz/receive-result-request</i>				
Method	POST				RESTful API
	Parameter name	Type	nullable	Example	DTO Information
Parameters	Request notification object	Notification DTO	False	 receive-result-request.json	
Request body	Header	Content-Type: application/json Authorization: Bearer xxxxxxxxxxxx			
	Description	The function receives contract notifications for processing on the Vcontract system			
	Example				
Response	Result	Description			Example
	Success	When the input information is successfully validated, the result is returned in base64 encoded form, when decoded it will be json, for example as follows: {"message": "OK", "success": true} Trong đó: - Success: true (API status successful) - Message: successful response content (OK)			
	Failure	When validation lacks input information,			

		return base64 encoded failure result, when decoded it will output json, for example as follows: {"message": "The requestCode must be transmitted ", "success": false} In which: - Success: false (API status failed) - Message: error response content. Noyte: vContract will only retry sending message 03 times if failed. The integrated system can automatically call the message in API (10) and (11)	
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List of DTOs and descriptions

- *NotificationDTO*

Fields name	nullable	Type	Meaning
status	False	String	Message states Details in the table: List of status types
errorCode	True	String	Message error codes
decscription	True	String	Description of message or error code Details in the table: List of error codes
urlDownloadFile	True	String	Contract file download link
listContractResult	True	List<ContractResultDTO>	Detailed list of each contract processed in the current contract creation request (requestCode)

- *ContractResultDTO*

Fields name	nullable	Type	Ý Meaning
contractCode	False	String	Contract code
status	False	String	Contract processing status: SUCCESS: Success FAILED: Failed

errorCode	True	String	Error code if creation fails
decscription	True	String	Contract Creation Status Description
timeProcess	True	String	Processing time
contractReferences	True	List<ContractReferenceDTO>	Results of attaching contracts/ affiliate documents (if any)

- **ContractReferenceDTO** – Information of contracts/ affiliate documents

Fields name	nullable	Type	Description
code	false	String	Code of contracts/ affiliate documents
status	False	String	Link Attachment Status SUCCESS : success FAILED : failed
description	True	String	Detailed description of processing results

2. API receive contract results

General API Description

URI	<i>http://xxxxx:yyy/zzzzzzz/receive-result-contract</i>				
Method	POST				RESTful API
	Parameter name	Type	nullable	Example	DTO Information
Parameters	Request notification object	Notification DTO	False	 receive-result-contract.json	
Request body	Header	Content-Type: application/json Authorization: Bearer xxxxxxxxxxxx			
	Description	The function receives contract notifications			

		for processing on the Vcontract system	
	Example		
Response	Result	Description	Example
	Success	When the input information is successfully validated, the result is returned in base64 encoded form, when decoded it will be json, for example as follows: <pre>{"message":"OK","success":true}</pre> In which: - Success: true (API status successful) - Message: successful response content (OK)	
	Failure	When validation lacks input information, return base64 encoded failure result, when decoded it will output json, for example as follows: <pre>{"message":" The requestCode must be transmitted ","success":false}</pre> In which: - Success: false (API status failed) - Message: error response content. Noyte: vContract will only retry sending message 03 times if failed. The integrated system can automatically call the message in API (10) and (11)	

List of DTOs and descriptions

- *NotificationDTO*

Fields name	nullable	Type	Meaning
type	False	String	Notification Type Details in the table: List of notification types and statuses Add type "REMIND_PROCESS_NOTI" : prompt for processing
status	False	String	Notification states Details in the table: List of notification types and

			statuses
errorCode	True	String	Message error codes Details in the table: List of error codes
decscription	True	String	Description of message or error code Details in the table: List of error codes
requestCode	False	String	Contract creation request code
contractCode	True	String	Contract code needs notification
contractName	False	String	Name of contract needs notification
contractStatus	True	String	Contract status needs notification: DRAFT : In draft status PROCESSING : In processing status FINISHED : Finished REJECTED : Rejected CANCEL : Cancel
urlDownloadFile	True	String	Contract file download link
contractDetailFlow	True	List<PartnerDTO>	Contract Singing Flow Details
handledObject	True	HandledObjectDTO	Information about the subject performing the impact on the contract
nextHandlingObject	True	NextHandlingObjectDTO	The party that creates the contract needs to process it: approve, sign
contractReferences	True	List<ContractReferenceDTO>	Results of attaching contracts/ affiliate documents (if any)
remindProcessDTO	True	RemindProcessDTO	Information about the person who needs to notify for processing

- **PartnerDTO**

Fields name	nullable	Type	Meaning
partnerDocumentNumber	False	String	Customer document number

status	False	String	Status
order	False	int	Order
signerInfoList	True	List string JSON	List of signatory information

- ***SignerInfoDTO***

Fields name	nullable	Type	Meaning
username	False	String	Username
status	False	String	Status
order	False	int	Order
userPhone	False	String	User's phone number
userEmail	False	String	User's email
signMethod	True	String	Signing method

- ***HandledObjectDTO***

Fields name	nullable	Type	Meaning
username	False	String	Username
partnerDocumentNumber	False	String	Customer document number
action	False	String	action
comment	False	String	Reason for refusal to Approve/Sign
processTime	False	String	Processing time

- ***NextHandlingObjectDTO***

Fields name	nullable	Type	Meaning
username	False	String	User needs to do next processing

role	False	String	User needs to perform the operation: APPROVE : Approve SIGN : Sign
handlingUrl	False	String	Order

- ***ContractReferenceDTO – Information of contracts/ affiliate documents***

Fields name	nullable	Type	Description
code	false	String	Code of contracts/ affiliate documents
status	False	String	Link Attachment Status SUCCESS : success FAILED : failed
description	True	String	Detailed description of processing results

- ***RemindProcessDTO***

Fields name	nullable	Type	Meaning
fullName	False	String	Name of the performer
phone	False	String	Phone number of the performer
certificateNo	False	String	Document number of the performer
timeProcess	False	Date	Call performing time

- ***List of notification types and statuses ((type và status)***

Notification Type (type)	Description	Status	Notification time
CREATE_NOTI	Notification about contract creation	DONE_DRAFT	Successful contract creation with draft status
		DONE_START_FLOW	Successful contract creation, the contract automatically starts the signing flow

		ERROR	Contract creation failed
PROCESS_NOTI	Notifications impact the status of the created contract	DONE_START_FLOW	API (8) successfully executes the contract signing flow
		ERROR_START_FLOW	API (8) execution of contract flow failed
		CUSTOMER_SIGNED	Customer successfully signed and approved the contract
		CUSTOMER_REJECTED	Customer refused to sign the contract
		USER_APPROVED	The user of the creator approves the contract
		USER_SIGNED	The user of the creator successfully signed the contract
		USER_REJECTED	The user of the creator refused to sign the contract
		USER_CANCELLED	API (3) successfully cancels to sign the contract or The user of the creator has the right to click to cancel to sign the contract on the vContract website
		MOIT_ERROR	MOIT axis push operation failed
		MOIT_DONE	Push the MOIT axis successfully, the contract is finished.
		DELETE_CONTRACT	Contract is deleted
ACTION_NOTI	The creator's notifications need to be processed	NEED_APPROVE	When the user of the creator needs to approve the created contract
		NEED_SIGN	When the user of the creator needs to sign the created contract

- List of error codes and error descriptions (errorCode và description)

errorCode	description	Meaning
0x10007	[Province/district/commu	Incorrect contact information: province, district,

	<i>ne code</i>] does not exist on vContract	commune CityDTO.code: Province code does not exist on vContract DistrictDTO.code: District code does not exist on vContract WardDTO.code: Commune code does not exist on vContract
0x10008		Create failed subject: • Infrastructure and server errors • ...
0x10009		Contract file error: • The contract file has not been uploaded successfully. • Mapping path file and contract do not match. • ...
0x10010		Information of participants in the error contract: • PartnerDTO.documentNumber: Number of participating documents not belonging to the creator or the customer signing • SignerInfoDTO.username: Account not owned by the creator • SignPositionDTO.documentNumber: The document number on the signature position is not in the customer list in CustomerInfoDTO • SignPositionDTO.username: The account on the signing position does not belong to the creator
0x10011		Contract type code (ContractDTO.contractType) does not exist
0x10012		Contract code (ContractDTO.contractCode) already exists on the system
0x10013		The file type (AttachmentDTO.attachmentType) code does not satisfy: The contract file list must have at least one file type 40000 or 40001
0x10014		Out of resources to make a contract
0x10015		Creating a Contract file according to the template failed.

