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API Based Subscriber Registration

End User Document
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Contents

2) List of Tables

<u>Overview</u>

It is a functionality to register the subscriber in CRA system through web-service. This web-service will accept all the details of subscriber which are required for registration in NPS System in a JSON format. Consolidated data will be shared with the CRA System.

Web service is divided in two parts, header and body. Header will contain user & request related information and body will be further divided into different sections. Sections will contain subscriber related data.

Sections containing Subscriber related data will be shared via web-service in two ways:

a) **Consolidated JSON Request:**

   a. All the subscriber information (i.e. header & body containing all sections) should be shared in single consolidated JSON request. After validating the user details, all the format validations will be executed on the consolidated JSON request.

   b. Post successful format validation of the request, reference number will be provided in response and further processing will be carried out on the JSON request. The reference number can be used to check the status of the request (with a different web-service) till the processing of the request is successfully completed in CRA system.

   c. Business validations will then be carried out on the JSON request and on successful completion of the business validations, subscriber will be registered in the CRA system.

   d. If there is any validation failure in the JSON request at any stage then consolidated error list be provided as response in JSON format with reference number which can be used for checking the status.

b) **Individual Section wise JSON Request (Optional Feature):**

   a. Individual sections can be shared with header for format validations via web-service and if found erroneous then only error list will be provided.

   [Note: No Reference Number will be provided for individual section validations. This data will not be used for registration until the same data is sent in consolidated JSON request.]

1. 1. API Methods

1. Service Name: CRAOnlineAPI/postPensionDetails

Request Method: POST

This web service validate and register subscriber in CRA System.

Each request is divided in two parts, Header & Body. Details of header and each sections of the body are as follows:

Header Data: Fields under header of the JSON request (applicable for all the web-services).

Table 1.1: Header

S.N	Key	Value	Description
1	content-type	application/json	The value for this field will be "application/json".
2	user-id	UserId	Value for this field will be encrypted User Id by serial number of DSC (which will be shared while user creation for API Web-services) and salt which should be shared in below salt-key in header request. [File containing Encryption code is attached below for reference] (Max Length:100)
3	datamapping	consolidatedDetails	Value for this field will be "consolidatedDetails" for consolidated request. [Note: Value for calling Individual sections validation will be shared later] (Max Length:30)
4	request-token	requestToken	The value for this field will be shared at the time of new user creation for calling web-services for individual user and same should be passed here. (Max Length:30)
5	salt-key	saltKey	Value for this filed is used to encrypt user-id as mentioned above in user-id key. (Max Length: 8)
6	request-id	requestId	A unique Id for each request. (User Id + Timestamp) (Max Length:20)

Example:

Content-Type: application/json

userid: +AgIO/VMOv8Sgwhosdx9OQ==

request-token: 1300037

saltkey: abc

datamapping: consolidatedDetails

request-id: 1400512830032022001

entityRegNumber : 130001000

Body data of the web-service: The body part will contain multiple sections in consolidated JSON request. Below are the list of sections which should be present in the request.

Sr. No.	API URL	Sections of the body	API Details
A	/postPensionDetails	Initial Details	Kindly refer 1.2. Initial Request section
1		Personal Details	Kindly refer 1.3. Personal Details section
2		Contact Details	Kindly refer 1.4. Contact Details section
3		FATCA Details	Kindly refer 1.5. FATCA Details section
4		Bank Details	Kindly refer 1.6. Bank Details section
5		Employment Details	Kindly refer 1.7. Employment Details section
6		Scheme Details	Kindly refer 1.8. Scheme Details section
7		Nomination Details	Kindly refer 1.9. Nomination Details section
8		Photo Signature Details	Kindly refer 1.10. Photo Signature Details section

So payload for the consolidated request will be as below.

```
{
        "initialDtls": {...},
        "personalDtls": {...} ,
        "contactDtls":{...},
        "fatcaDtls":{...},
        "bankDtls":{...},
        "employmentDtls":{...},
        "schemeDtls":{...},
        "nominationDtls":{...},
        "photoSignatureDtls":{...}
}
```

Table 1.2: Table describing the fields in initialDetails

Sr No	Object	Fields
1.	**initialDetails**	receiptNumber, ackId, pranNumber, sectorTypeFlag,

		citizenFlag, combinedFormFlag, popSpRegNo, nriBankAccountStatus, countryOfRes, existingCustomerFlag, nationality, productExistingCustomer, existingCustomerBranchOffice, consentByPOP, howDidYouHearAboutNPS, popSeCode, popSeAgentName, popSeEmployeeId, minUploadIndicator, pregeneratedPranFlag

Table 1.3: Table describing fields in personalDtls

Sr. No.	Objects	Fields
1	personalDtls	subTitle, subFstName, subMdlName, subLastName, gender, subDob,

		placeOfBirth, countryOfBirth, maritalStatus, mobile, email, telRes, fthFirstName, fthMiddleName, fthLastName, mthFirstName, mthMiddleName, mthLastName, spouseFirstName, spouseLastName, spouseMiddleName, pan, passport, voterId, cersaiId, retirementAdvId, idProof, idProofNumber, idProofOthers, dobProof, dobProofDocNum, displayNameFlag, passportIssueDate, passportExpiryDate, passportPlaceOfIssue, passportWithVisaWorkPermit, visaPermitExpiryDate, last4DigitsOfAadhaar, form60Flag, form60FinYr, epranWelcomePran, modeOfRegistration, npsOnBoarding,

		orphan, foreignPassportNumber, visaPermitNo, productType, productTypeOthers, hindiSubFlag, subscriberDeclaration, employerDeclaration, existingCustomerCustomePop, kycVerificationFlag

Table 1.4: Table describing fields in contactDtls

Sr. No.	Objects	Fields
1	contactDtls	cAddrLine1 cAddrLine2 cAddrLine3 cAddrLine4 cState cCountry cPincode cAddrProof cAddrProofName pAddrLine1 pAddrLine2 pAddrLine3 pAddrLine4 pState pCountry pPincode pAddrProof pAddrProofName foreignAddressStateForNRI preferredAddressForCommunication

Table 1.5: describing fields in fatcaDtls

Sr No	Object	Fields
1	fatcaDtls	declarationOfFatca

		fatcaDeclarationCount usPerson TaxPayerOfCountries amlaFlag fatcaList [{ countryOfTaxRes addrOfTaxRes citizenshipDocFlag reasonForNoEvidance fatcaState fatcaCity zipcode tinNumIssueCountry taxIdentificationNum docValidity }]

Table 1.6: Table describing fields in bankDtls

Sr. No.	Object Name	Field Name

1	bankDtls	tier1: {
		accountType
		bankAccountNumber
		bankIfsCode
		bankName
		linkedToAdhaarFlag
		cancelledChqFlag
		pennyDropVerf
		numberofNominee
		numberofSchema }
		
		tier2: {
		sameAsTier1
		accountType
		bankAccountNumber
		bankIfsCode
		bankName

		linkedToAdhaarFlag cancelledChqFlag pennyDropVerf numberofNominee numberofSchema }

Table 1.7: Table describing fields in employmentDtls

Sr No	Object Name	Field Name
1	employmentDtls	Occupation incomeRange politicallyExposed relativePoliticalExposed otherOccDetails empId dateOfRetirement

Table 1.8: Table describing fields in schemeDtls

Sr No	Object Name	Field Name

1	**schemeDtls**	tier1: {
		schPrefChoice
		schemeList: [{
		schemeId
		pfmId
		schemePercentage
		}, {
		schemeId
		pfmId
		schemePercentage
		}, {
		schemeId
		pfmId
		schemePercentage
		}, {
		schemeId
		pfmId
		schemePercentage
		}]}
		
		tier2: {
		schPrefChoice

Sr No	Object Name	Field Name

		schemeList: [{
		schemeId
		pfmId
		schemePercentage
		}, {
		schemeId
		pfmId
		schemePercentage
		}, {
		schemeId
		pfmId
		schemePercentage
		}, {
		schemeId
		pfmId
		schemePercentage
		}]

Table 1.9: Table describing fields in nominationDtls

1	**nominationDtls**	tier1: [{
		firstName
		middleName
		lastName
		majorMinorFlag
		dateOfBirth
		relationship
		percentageShare
		guardianFirstName
		guardianMiddleName
		guardianLastName
		nomineeAge
		relationshipOther}]
		
		tier2: [{
		firstName
		middleName
		lastName
		majorMinorFlag
		dateOfBirth
		relationship
		percentageShare
		guardianFirstName
		guardianMiddleName
		guardianLastName
		nomineeAge
		relationshipOther}]
		sameAsTier1

Table 1.10: Table describing fields in photoSignatureDtls

Sr No	Object Name	Field Name
1	**photoSignatureDtls**	photoFileData signatureFileData docEvidenceOrphan form60Doc docRelinquishcitizen

Example

Scenario	Request	Response

Generation of response Id	{
	"initialDetails": {
	},
	"personalDtls": {
	},
	"contactDtls": {
	},
	"fatcaDtls": {
	},
	"bankDtls": {
	}
	},
	"employmentDtls": {
	},
	"schemeDtls": {
	},
	"nominationDtls": {
	},
	"photoSignatureDtls": {
	}
		{
		"status": "success",
		"response-id": "107"
		}

2. Service Name: /CRAOnlineAPI/trackStatus?refId=<referenceId>
Request Method: GET

This web service is used to check the status of the API SUB REG request.

Example

Scenario	**Request**	**Response**
Generation of PRAN		{

	},
	"fatcaDtls": {
	},
	"bankDtls": {
	}
	},
	"employmentDtls": {
	},
	"schemeDtls": {
	},
	"nominationDtls": {
	},
	"photoSignatureDtls": {
	}
		"pranNumber": "111111010101",
		"ackId": "00000000000000017",
		"subName": "Tushar Kumar Sinha",
		"status": "success",
		"response-id": "115"
		}

2. 2. Error Handling of API

Error Code	Error Description
HDR001	AccessToken is mandatory
HDR002	ContentType is mandatory
HDR003	RequestId is mandatory
HDR004	IPAddress is mandatory
HDR006	ResponseType is mandatory
HDR007	ServiceName is mandatory
HDR009	Invalid ContentType
HDR010	Invalid RequestId
HDR013	IPAddress is Invalid
HDR014	Entity Registration Number is mandatory
HDR015	Invalid ResponseType
VLD014	UserId is mandatory
VLD015	UserId and PRAN must be equal for subscriber Group
VLD016	UserId is invalid
VLD017	PRAN is invalid
VLD018	UserId and PRAN must be not equal for entity Group
VLD019	PRAN is not mapped to Entity Id

VLD020	Please Contact Administrator
SDV001	tiertype is mandatory
SDV002	tiertype is invalid
SDV003	invalid attribute type
SDV004	invalid attribute type for tiertype
SDV005	PRAN is not found in database
SDV006	No tier1 details found
SDV007	No tier2 details found
SDV008	No tier3 details found
SDV009	Attribute is Mandatory
VLD037	Duplicate Parameter in Request
VLD038	No request found
VLD039	Invalid Request

3) Uniform Resource Identifier (URI) Construction

1. ***For postPensionDetails API : "/CRAOnlineAPI/postPensionDetails"***
2. ***For trackStatus API : "/CRAOnlineAPI/trackStatus?refId=<referenceId>"***