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| API Specification |
| Mdo-pool-builder |
| SOA Enterprise Services |

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# REST API Specification

## API Description

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| --- | --- |
| **Name of API** | {mdo-pool-builder} |
| **Description** | Mdo pool builder microservice will be invoked by Mdo processing microservice with member as input and output is validated providers list. It will be interacting with drools engine micoservice for getting rules as output and member as input then by using these rules mdo pool builder microservice will build a pool of providers by calculating the aerial distance between member and provider locations.The formed pool of providers will be sent to provider validation microservice for validation that will return validated providers to mdo pool builder. |
| **Resources** | |  |  | | --- | --- | | Resource | Summary | | {mdo-pool} | This will execute mdo pool builder microservice and will return validated list of providers to mdo processing. | |

## Resource Specification

|  |  |
| --- | --- |
| **Resource Name** | {mdo-pool} |
| **Description** | This will execute mdo pool builder microservice and will return validated list of providers to mdo processing. |
| **Resource URL** | /mdo-pool |
| **Request Verb** | POST |
| **Request Headers** | Refer to General API components section |
| **Request Parameters** | |  |  |  |  | | --- | --- | --- | --- | | Parameter Name | Required/  Optional | Description | Parameter Type | | market | R | LineOfBusiness like ‘Commercial’ | String | | lob | R | Market/State like ‘CA’,’ALL’,’VA’ | String | | product | R | Product like ‘PPO’’,’HMO’,’ALL’ | String | | assignmentType | R | Assignment type like ‘New’,’Rollover’ | String | | assignmentMethod | R | AssignmentMethod like ‘Batch/Online’ | String | | hcid | O | String value | String | | sorCode | O | It should be a string | String | | subscriberId | O | Subscriber id should be given | String | | sequenceNbr | O | Subscriber number should be given here | String | | fname | O | First name the member | String | | lname | O | Last name of the member | String | | gender | O | Male/female/none | String | | dob | O | It shoud be in date format | Date | | address | O | Detailed address of the meber | Address | | ssn | O | Unique number | String | | certNbr | O | String alue should be given | String | | memberCode | O | Member code should be given | String | | productCode | O | Product code should be given | String | |
| **Request URI Examples** | POST mdo/pool |
| **Request Body Example** | {  "market": "CT",  "lob": "Commercial",  "product": "ALL",  "assignmentType": "New",  "assignmentMethod": "Batch",  "hcid": "80054178",  "sorCode": "1234",  "subscriberId": "1234",  "sequenceNbr": "1234",  "fname": "CAROLYN",  "lname": "ANDREWS",  "gender": "F",  "dob": -568099440000,  "address": {  "addrLine1": "ACV ",  "addrLine2": "QWE",  "street": "Wall Street",  "houseNumber": null,  "state": "NJ",  "zip": "12345",  "latitude": 0.0,  "longitude": 0.0  },  "ssn": "455981703",  "certNbr": "123",  "memberCode": null,  "productCode": "PCI"  } |
| **Response Headers** | Refer to General API components section |
| **Response Body Example** | {  "pcps": [  {  "pcpId": "AD8908",  "address": null,  "network": null,  "contractEffDate": null,  "speciality": null,  "language": null  }  ],  "responseCode": 200,  "responseMessage": "SUCCESS",  "dummyFlag": false  } |
| **Input Data validations performed** | 1. In input member market,lob,product,assignment type and assignment method should not be null. 2. SSN should be numeric in member |
| **Error Response HTTP Status Codes** | Code = 200, message = “success”  code = 600, message = "JSON\_VALIDATION\_ERROR"  code = 700, message = "SERVICE\_NOT\_AVAILABLE "  code = 800, message = "OTHER\_EXCEPTIONS" |

## General API Components

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Request Headers** | |  |  |  |  | | --- | --- | --- | --- | | Header Name | Description | R/O | Values | | X-ANTHEM-CLIENT-ID | Consumer key |  |  | | X-ANTHEM-CLIENT-SECRET | Consumer secret |  |  | | APIKey | Access Token, Client ID, sender app etc., | R |  | | Accept |  | O | application/json | |
| **Response Headers** | |  |  |  |  | | --- | --- | --- | --- | | Header Name | Description | R/O | Values | | Content-Type |  | O | application/json | |
| **Error Response HTTP Status Codes** | |  |  | | --- | --- | | HTTP Status Code | Description | | 200 OK | Successful response | | 400 Bad request | Problem with request, parameter values or format | | 401 Unauthorized | Could not authenticate | | 403 Forbidden | Not allowed to access the resource | | 404 Not Found | Unable to find the resource requested | | 500 Internal Server Error | A generic error message, given when an unexpected condition is encountered | | 503 Service Unavailable | If the API gateway is unable to communicate with the backend service, it will return this error | |
| **Error Response Format** | |  |  | | --- | --- | | Element | Description | | responseCode | Internal application error code, classification of error. | | responseMessage | Summary of the Error; message to be displayed to user. |   {  "pcps": null,  "responseCode": 700,  "responseMessage": "Service is temporarily down. Please try after some time",  "dummyFlag": false  } |

# Terms & Definitions

|  |  |
| --- | --- |
| **Term** | **Description** |
| **REST** | Representational State Transfer |
| **HTTP** | Hyper Text Transfer Protocol |
| **API** | Application Programming Interface |

# Revision History

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| --- | --- | --- | --- |
| **Date** | **Revision** | **Description** | **Author** |
| 4/12/2018 | 1.0 | Draft Template | Rohit Kothuru |
| 4/16/2018 | 1.1 | Intial version | Ibrahim Shaik |