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| API Specification |
| Provider\_validation |
| SOA Enterprise Services |

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# REST API Specification

## API Description

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| **Name of API** | provider\_validation |
| **Description** | Provider Validation is configured as centralised Micro Service that accepts input payload as **Member** object**, List of PCP** java Object, **Rules** Java Object and gives List of validated PCPs as output.  In case of Affinity, Output will be null PCP or one PCP. In Case of MDO, it will provide all validated List of PCP or an empty list.  **Detailed Description:** Provider Validation microservice is used for validating particular PCP based on age, Gender, specialty, network, tier, aerial distance, contract, panel capacity. It is invoked by Affinity or MDO Pool. Based upon the microservice it is been called, it returns output. In case of Affinity it will return null or Only one PCP and incase of MDO,an empty list or List of all validated PCPs will be returned. The below details are needed in the Input payload to Invoke Provider validation.  1) Member Object  2) List of PCP Object  3) Rules Object  Provider Validation Micro Service is configured with two end point **i.e. /validation-affinity for Affinity and /validation-mdo for MDO.** |
| **Resources** | |  |  | | --- | --- | | Resource | Summary | | **validation-affinity** | We have implemented functionality validation for driving distance,gender validation,age validation,speciality validation,network validation,contract validation,tier validation,rollover validation for Affinity. |  |  |  | | --- | --- | | Resource | Summary | | **Validation-mdo** | We have implemented functionality validation for gender validation,age validation,speciality validation,network validation,contract validation,tier validation,accept new patient,rollover and panel capacity validation for MDO. | |

Resource Specification

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| **Resource Name** | **validation-affinity** |
| **Description** | Currently, this is a common service end-point that executes the provider validation for affinity and provides output as PCP Object or ‘null’ PCP to the affinity. |
| **Resource URL** | /**validation-affinity** |
| **Request Verb** | POST |
| **Request Headers** | InputPayloadInfo Object  Content-type: json |
| **Request Parameters** | Member:   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | | Parameter Name | Required/  Optional | Description | Parameter Type | | memberContractCode | O® | Either memberContractCode or memberNetworkId should be present.We will throw error if the above two attributes are missing. This is being used in Network Validation. | List | | memberNetworkId | O | Either memberContractCode or memberNetworkId can be present. This is being used in Network Validation. | List | | memberDob | R | This field is required in the input parameter for Member.This is being used in age validation where are calculating member age based on memberDOB and checking if is with in the age configured for a PCP specialty | String | | memberGender | O | This field is required in the input parameter for Member.This is being used in GenderValidation but the validation not required in phase, we kept this field for future purpuse. | String | | rollOverPcpId | O | This field may or may not be required in the input parameter for Member.This is being used in RollOver Validation. | String | | memberEffectiveDate | R | This field is required in the input parameter for Member.This is being used in contract Validation. | String | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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specialtyMaxAgeList | R | This filed is required in Rules Parameter.This is being used in Age Validation. | List<ActionPair<String,Integer>> | | panelCapacityPercent | O | This filed is required in Rules Parameter.This is being used in Panel Capacity validation done at MDO. | Int | | specialtyGenderList | R | This filed is required in Rules Parameter.This is being used in Gender Validation. | List<ActionPair<String,String>> | | specialtyMinAgeList | R | This filed is required in Rules Parameter.This is being used in Age validation. | List<ActionPair<String,Integer>> | | rolloverFlag | R | This filed is required in Rules Parameter.This is being used in RollOver validation. | String | | validationFlagList | R | This filed is required in Rules Parameter.This is being used to identify if the validation is applicable for Affinity or MDO. | List<ActionPair<String, Boolean>> | |   PCP information:   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 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double | | rgnlNtwkId | O | This is being used in network validation. | String | | grpgRltdPadrsEfctvDt | O |  | Date | | grpgRltdPadrsTrmntnDt | O | This is being used in Contract validation. | Date | | maxMbrCnt | O | This is being used in RollOver Validation. | int | | curntMbrCnt | O | This is being used in panel capacity Validation. | int | | spcltyDesc | O | This is being used in specialty,age and gender validations. | String | | tierLvl | O | This is being used in tier validations. | Int | | accNewPatientFlag | O | This is being used in accept new patient validation. | String | | pcpLang | O |  | List<String> | | drivingDistance | O | This is being used in Driving distance validation. | double | | | |  | |
| **Request URI Examples** | |  |  | | --- | --- | | Common Endpoint | POST /**validation-affinity** | |
| **Request Body Example** | {  "member": {  "memberContractCode": ["CAHVV100"],  "memberNetworkId": ["CAHCLA00","CAHVV100"],  "memberDob": "2014-01-21",  "memberGender": "F",  "rollOverPcpId": "AS123",  "memberEffectiveDate":"2014-01-01"  },  "pcpInfo": [  {  "provPcpId": "FQA013",  "pcpLastNm":"Chris",  "pcpRankgId": "DUMMYRNK96",  "latdCordntNbr": "33.89462",  "lngtdCordntNbr": "-118.39608",  "drivingDistance": 70,  "rgnlNtwkId": "CAHVV100",  "accNewPatientFlag": "Y",  "tierLvl":1,  "grpgRltdPadrsEfctvDt": "2014-10-01",  "grpgRltdPadrsTrmntnDt": "2018-10-31",  "maxMbrCnt": 111,  "curntMbrCnt": 11,  "spcltyDesc": "Geriatrics",  "pcpLang": [  "02"  ],  "vbpFlag":"N",  "aerialDistance":60,  "mdoScore":50  },  {  "provPcpId": "FQA014",  "pcpLastNm":"Harris",  "pcpRankgId": "DUMMYRNK99",  "latdCordntNbr": "33.89462",  "lngtdCordntNbr": "-118.39608",  "drivingDistance": 50,  "spcltyDesc": "General Medicine",  "rgnlNtwkId": "CAHVV100",  "grpgRltdPadrsEfctvDt": "2014-10-01",  "grpgRltdPadrsTrmntnDt": "2018-10-31",  "maxMbrCnt": 222,  "curntMbrCnt": 22,  "accNewPatientFlag": "N",  "tierLvl":1,  "pcpLang": [  "02"  ],  "vbpFlag":"Y",  "aerialDistance":60,  "mdoScore":50  }  ],    "rules": {  "primarySpecialties": [  "Internal Medicine",  "Family Practice",  "Pediatrics",  "General Medicine",  "Geriatrics"  ],  "contractEffectiveBeyond": 30,  "drivingDistance": 60,  "providerTiers": [  1  ],  "rolloverFlag":"Y",  "validationFlagList": [  {  "key": "SPECIALTY\_VALIDATION",  "value": true  },  {  "key": "AGE\_RANGE\_VALIDATION",  "value": true  },  {  "key": "GENDER\_VALIDATION",  "value": true  },  {  "key": "CONTRACT\_VALIDATION",  "value": true  },  {  "key": "DISTANCE\_VALIDATION",  "value": true  },  {  "key": "PANEL\_CAPACITY\_VALIDATION",  "value": false  },  {  "key": "NETWORK\_VALIDATION",  "value": true  },  {  "key": "TIER\_VALIDATION",  "value": false  },  {  "key": "ACCEPTING\_PATIENTS\_VALIDATION",  "value": false  },  {  "key": "ROLLOVER\_VALIDATION",  "value": true  }  ],  "panelCapacityPercent": 85,  "specialtyMinAgeList": [  {  "key": "Pediatrics",  "value": 0  },  {  "key": "Geriatrics",  "value": 60  }  ],  "specialtyMaxAgeList": [  {  "key": "Pediatrics",  "value": 18  },  {  "key": "Geriatrics",  "value": 999  }  ],  "specialtyGenderList": [  {  "key": "OB/GYN",  "value": "F"  }  ]  }  } |
| **Response Headers** | contentType:Application/JSON |
| **Response Body Example** | {  "pcpInfo": {  "provPcpId": "FQA014",  "pcpLastNm": "Harris",  "latdCordntNbr": 33.89462,  "lngtdCordntNbr": -118.39608,  "rgnlNtwkId": "CAHVV100",  "tierLvl": 1,  "pcpRankgId": "DUMMYRNK99",  "spcltyDesc": "General Medicine",  "grpgRltdPadrsTrmntnDt": 1540944000000,  "grpgRltdPadrsEfctvDt": 1412121600000,  "maxMbrCnt": 222,  "curntMbrCnt": 22,  "accNewPatientFlag": "N",  "drivingDistance": 50,  "pcpLang": [  "02"  ],  "vbpFlag": "Y",  "aerialDistance": 60,  "mdoScore": 50  },  "responseCode": "200",  "responseMessage": "SUCCESS"  } |
| **Input Data Validations** | 1)Member and Rules attributes required for Validations should not be empty or null. |
| **Response HTTP Status** | Following are the custom response codes that can be returned.   |  |  | | --- | --- | | Response Code | Reason | | 200 | SUCCESS | | 600 | JSON\_VALIDATION\_ERROR(We have handled only for Provider PCP Id(provPcpId) currently for not null or non blank values).For other Attributes we have not handled as it will discard the entire PCP Payload | | 700 | SERVICE\_NOT\_AVAILABLE | | 800 | OTHER\_EXCEPTIONS | |

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| **Resource Name** | **validation-mdo** |
| **Description** | Currently, this is a service end-point that executes the provider validation for MDO and provides output in List of PCP or empty PCP to the MDO Pool. |
| **Resource URL** | /**validation-mdo** |
| **Request Verb** | POST |
| **Request Headers** | InputPayloadInfo Object  Content-type: json |
| **Request Parameters** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Rule:   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | | Parameter Name | Required/  Optional | Description | Parameter Type | | primarySpecialties | O | This is being used in Age,Gender and Specialty validations. | String[] | | contractEffectiveBeyond | R | This is being used in Contract validation. | Int | | drivingDistance | R |  | Int | | providerTiers | O | This is being used in Tier Validation but the validation not required in phase, we kept this field for future purpuse. | Int[] | | specialtyMaxAgeList | R | This is being used in Age Validation. | List<ActionPair<String,Integer>> | | panelCapacityPercent | R | This is being used in Panel Capacity validation. | Int | | specialtyGenderList | R | This is being used in Gender Validation. | List<ActionPair<String,String>> | | specialtyMinAgeList | R | This is being used in Age validation. | List<ActionPair<String,Integer>> | | rolloverFlag | R | This is being used in RollOver validation | String | | validationFlagList | R | This is being used to identify if the validation is applicable for Affinity or MDO. | List<ActionPair<String, Boolean>> | |   PCP information:   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | | Parameter Name | Required/  Optional | Description | Parameter Type | | provPcpId | O | This is being used in RollOver Validation. | String | | pcpRankgId | O |  | String | | pcpLastNm | O |  | String | | latdCordntNbr | O |  | double | | lngtdCordntNbr | O |  | double | | vbpFlag | O |  | String | | mdoScore | O |  | int | | aerialDistance | O |  | double | | rgnlNtwkId | O | This is being used in network validation. | String | | grpgRltdPadrsEfctvDt | O |  | Date | | grpgRltdPadrsTrmntnDt | O | This is being used in Contract validation. | Date | | maxMbrCnt | O | This is being used in RollOver Validation. | int | | curntMbrCnt | O | This is being used in panel capacity Validation. | int | | spcltyDesc | O | This is being used in specialty,age and gender validations. | String | | tierLvl | O | This is being used in tier validations. | Int | | accNewPatientFlag | O | This is being used in accept new patient validation. | String | | pcpLang | O |  | List<String> | | drivingDistance | O |  | double | | | |  | | Member:   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | | Parameter Name | Required/  Optional | Description | Parameter Type | | memberContractCode | O | Either memberContractCode or memberNetworkId can be present. This is being used in Network Validation. | List | | memberNetworkId | O | Either memberContractCode or memberNetworkId can be present.This is being used in Network Validation. | List | | memberDob | R | This field is required in the input parameter for Member.This is being used in age validation where are calculating member age based on memberDOB and checking if is with in the age configured for a PCP specialty | String | | memberGender | O | This field is required in the input parameter for Member.This is being used in GenderValidation but the validation not required in phase, we kept this field for future purpuse. | String | | rollOverPcpId | O | This field may or may not be required in the input parameter for Member.This is being used in RollOver Validation. | String | | memberEffectiveDate | R | This field is required in the input parameter for Member.This is being used in contract Validation. | String | | |  | | |
| **Request URI Examples** | |  |  | | --- | --- | | Common Endpoint | POST /**validation-mdo** | |
| **Request Body Example** | {  "member": { "memberContractCode": ["CC86"],  "memberNetworkId": ["CAHCLA00","CAHVV100"],  "memberDob": "2014-01-21",  "memberGender": "F",  "rollOverPcpId": "AS123",  "memberEffectiveDate":"1944-01-01"  },  "pcpInfo": [  {  "provPcpId": "FQA013",  "pcpLastNm":"Chris",  "pcpRankgId": "DUMMYRNK96",  "latdCordntNbr": "33.89462",  "lngtdCordntNbr": "-118.39608",  "drivingDistance": 70,  "rgnlNtwkId": "CAHVV100",  "accNewPatientFlag": "Y",  "tierLvl":1,  "grpgRltdPadrsEfctvDt": "2014-10-01",  "grpgRltdPadrsTrmntnDt": "2018-10-31",  "maxMbrCnt": 111,  "curntMbrCnt": 11,  "spcltyDesc": "Geriatrics",  "pcpLang": [  "02"  ],  "vbpFlag":"N",  "aerialDistance":60,  "mdoScore":50  },  {  "provPcpId": "FQA014",  "pcpLastNm":"Harris",  "pcpRankgId": "DUMMYRNK99",  "latdCordntNbr": "33.89462",  "lngtdCordntNbr": "-118.39608",  "drivingDistance": 50,  "spcltyDesc": "General Medicine",  "rgnlNtwkId": "CAHVV100",  "grpgRltdPadrsEfctvDt": "2014-10-01",  "grpgRltdPadrsTrmntnDt": "2018-10-31",  "maxMbrCnt": 222,  "curntMbrCnt": 22,  "accNewPatientFlag": "Y",  "tierLvl":1,  "pcpLang": [  "02"  ],  "vbpFlag":"Y",  "aerialDistance":60,  "mdoScore":50  }  ],    "rules": {  "primarySpecialties": [  "Internal Medicine",  "Family Practice",  "Pediatrics",  "General Medicine",  "Geriatrics"  ],  "contractEffectiveBeyond": 30,  "drivingDistance": 30,  "providerTiers": [  1  ],  "rolloverFlag":"N",  "validationFlagList": [  {  "key": "SPECIALTY\_VALIDATION",  "value": true  },  {  "key": "AGE\_RANGE\_VALIDATION",  "value": true  },  {  "key": "GENDER\_VALIDATION",  "value": true  },  {  "key": "CONTRACT\_VALIDATION",  "value": true  },  {  "key": "DISTANCE\_VALIDATION",  "value": false  },  {  "key": "PANEL\_CAPACITY\_VALIDATION",  "value": true  },  {  "key": "NETWORK\_VALIDATION",  "value": true  },  {  "key": "TIER\_VALIDATION",  "value": false  },  {  "key": "ACCEPTING\_PATIENTS\_VALIDATION",  "value": true  },  {  "key": "ROLLOVER\_VALIDATION",  "value": true  }  ],  "panelCapacityPercent": 85,  "specialtyMinAgeList": [  {  "key": "Pediatrics",  "value": 0  },  {  "key": "Geriatrics",  "value": 60  }  ],  "specialtyMaxAgeList": [  {  "key": "Pediatrics",  "value": 18  },  {  "key": "Geriatrics",  "value": 999  }  ],  "specialtyGenderList": [  {  "key": "OB/GYN",  "value": "F"  }  ]  }  } |
| **Response Headers** | contentType:Application/JSON |
| **Response Body Example** | {  "pcpInfo": [  {  "provPcpId": "FQA013",  "pcpLastNm": "Chris",  "latdCordntNbr": 33.89462,  "lngtdCordntNbr": -118.39608,  "rgnlNtwkId": "CAHVV100",  "tierLvl": 1,  "pcpRankgId": "DUMMYRNK96",  "spcltyDesc": "Geriatrics",  "grpgRltdPadrsTrmntnDt": 1540944000000,  "grpgRltdPadrsEfctvDt": 1412121600000,  "maxMbrCnt": 111,  "curntMbrCnt": 11,  "accNewPatientFlag": "Y",  "drivingDistance": 70,  "pcpLang": [  "02"  ],  "vbpFlag": "N",  "aerialDistance": 60,  "mdoScore": 50  },  {  "provPcpId": "FQA014",  "pcpLastNm": "Harris",  "latdCordntNbr": 33.89462,  "lngtdCordntNbr": -118.39608,  "rgnlNtwkId": "CAHVV100",  "tierLvl": 1,  "pcpRankgId": "DUMMYRNK99",  "spcltyDesc": "General Medicine",  "grpgRltdPadrsTrmntnDt": 1540944000000,  "grpgRltdPadrsEfctvDt": 1412121600000,  "maxMbrCnt": 222,  "curntMbrCnt": 22,  "accNewPatientFlag": "Y",  "drivingDistance": 50,  "pcpLang": [  "02"  ],  "vbpFlag": "Y",  "aerialDistance": 60,  "mdoScore": 50  }  ],  "responseCode": "200",  "responseMessage": "SUCCESS"  } |
| **Input Data Validations** | 1)Member and Rules attribute required for provider validations should not be empty or null. |
| **Response HTTP Status** | Following are the custom response codes that can be returned.   |  |  | | --- | --- | | Response Code | Reason | | 200 | SUCCESS | | 600 | JSON\_VALIDATION\_ERROR(We have handled only for Provider PCP Id(provPcpId) currently for not null or non blank values).For other Attributes we have not handled as it will discard the entire PCP Payload | | 700 | SERVICE\_NOT\_AVAILABLE | | 800 | OTHER\_EXCEPTIONS | |

## General API Components

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Request Headers** | |  |  |  |  | | --- | --- | --- | --- | | Header Name | Description | R/O | Values | | InputPayloadInfo | Member, rule, PCPInfo | R |  | | Accept |  | O | application/json | |
| **Response Headers** | |  |  |  |  | | --- | --- | --- | --- | | Header Name | Description | R/O | Values | | Accept |  | O | application/json | |
| **Error Response HTTP Status Codes** | Refer to the Custom Response Codes in the above page |
| **Error Response Format** | |  |  | | --- | --- | | Element | Description | | Response Code | 600 | | Reason | JSON\_VALIDATION\_ERROR | | Response Message | provPcpId is Null or Empty in Input Payload | | JSON | {  "pcpInfo": null,  "responseCode": "600",  "responseMessage": "Provider PCP Id should not be blank"  } | |

# Terms & Definitions

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

# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Revision** | **Description** | **Author** |
| 5/14/2018 |  | Draft Template | Gouse MarurShaik |