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| API Specification |
| {api\_name} |
| SOA Enterprise Services |

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# REST API Specification

## API Description

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| **Name of API** | {Drools-rule-engine} |
| **Description** | Drools Rule Engine is configured as centralised microservice that accepts input payload as Member object along with RequestFor attribute and gives rules as output.  Detail Description :We configured different rules for SmartPCP,Affinity and MDO services.These services calls the Drools microservice and get the rules as output.The below details are needed in the input payload to call the drools microservice.  1)Lob  2)Market  3)Product  4)AssignmentType  5)AssignmentMethod  6)Requestfor  Drools service is configured with common end point as /smartPCPSelect and other services calls this endpoint to get the rules. |
| **Resources** | |  |  | | --- | --- | | Resource | Summary | | {smartPCPSelect } | This service executes the drools rule engine and provides output as Invocation Order for SmartPCP and rules for Affinity and MDO | | {resource\_name} | Summary description | | {resource\_name} | Summary description | |

## Resource Specification

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| --- | --- |
| **Resource Name** | { smartPCPSelect } |
| **Description** | Detail Description: This service executes the drools rule engine and provides output as Invocation Order for SmartPCP and rules for Affinity and MDO. |
| **Resource URL** | /smartPCPSelect |
| **Request Verb** | POST |
| **Request Headers** | InputPayload object  Content-type: json |
| **Request Parameters** | |  |  |  |  | | --- | --- | --- | --- | | Parameter Name | Required/  Optional | Description | Parameter Type | | lob | R | LineOfBusiness like ‘Commercial’ | String | | market | 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 | | requestFor | R | This will be name of the service requested for rules.RequestFor can be ‘SMARTPCP’,’AFFINITY’,’MDO’ | String | |
| **Request URI Examples** | POST /smartPCPSelect |
| **Request Body Example** | {  "requestFor": "SMARTPCP",  "member": {  "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"  },  "logId": "de91dbd6-1dc0-4608-aa39-0f1901e29585"  } |
| **Response Headers** | contentType:Application/JSON |
| **Response Body Example** | {  "rules": {  "market": "CT",  "lob": "Commercial",  "product": "ALL",  "assignmentType": "New",  "assignmentMethod": "Batch",  "invocationOrder": "AM",  "poolSize": 0,  "maxRadiusToPool": 0,  "ageMatch": null,  "ageScore": 0,  "languageMatch": null,  "languageScore": 0,  "limitedTimePanelLimit": null,  "limitedTimeTimeLimit": 0,  "limitedTimeScore": 0,  "proximity": null,  "proximityScore": 0,  "specialityMatch": null,  "specialityScore": 0,  "fallbackRequired": false,  "primarySpecialties": null,  "daysToTerminationAllowed": 0,  "drivingDistance": 0,  "specialtyMinAge": {},  "specialtyMaxAge": {},  "validationYesNoFlag": {},  "specialtyGender": {}  },  "responseCode": 200,  "responseMessage": "Rules successfully applied on Payload"  } |
| **Input Data validations performed** | 1)InputPayload object should not be null  2)RequestFor attribute should not be empty or null and should not contain any other value apart from “SMARTPCP”,”AFFINITY”,”MDO”. |
| **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 | | inputPayload | MemberInputPayload | R |  | | Accept |  | O | 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 | | 600 JSON\_VALIDATION\_ERROR | Json Input error | | 800 OtherExceptions | OtherExceptions | |
| **Error Response Format** | |  |  | | --- | --- | | Element | Description | | Responsecode | 600 | | Responsemessage | JSON\_VALIDATION\_ERROR | | detail | RequestFor is Null or Empty in Input Payload troubleshooting. | | Responsecode | 800 | | Responsemessage | OTHER\_EXCEPTIONS | | detail | Internal Error in Drools Rules Engine. |   {  "rules": null,  "responseCode": 600,  "responseMessage": "RequestFor is Null or Empty in Input Payload"  }  {  "rules": null,  "responseCode": 800,  "responseMessage": "Internal Error in Drools Rules Engine"  } |

# Terms & Definitions

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| **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 |  | Draft Template | Gouse |