

CustomerValidationService Technical Documentation

Overview

The **CustomerValidationService** is a composite service that orchestrates the identity and AML validation of a customer during onboarding. It does not contain any business logic of its own but simply calls the downstream services and returns their results. It calls IdentityValidationService first then calls AmlValidationService if the identity check passes.

API Endpoint

POST /

Request Schema:

- `customerId` (string)
- `fullName` (string)
- `nationalId` (string)
- `birthDate` (date)

Response Fields:

- `identityValidation`: object
 - `amlValidation`: object
 - `timestamp`: ISO-8601
-

Common Error Patterns

1. HTTP 400 Bad Request

Symptoms:

- Malformed JSON or missing required fields

Logs:

Unset

```
ERROR [aml-service] - Missing required input: customerId
```

Root Causes:

- Client sends incomplete or improperly formatted payload

Resolution:

- Validate all required fields are included and types are correct
-

2. HTTP 404 Not Found

Symptoms:

- Endpoint returns 404

Logs:

Unset

```
WARN [platform-http] - No consumers available on endpoint:  
platform-http:/
```

Root Causes:

- Camel route not active or incorrectly mapped

Resolution:

- Check YAML DSL route definition, ensure `path: /` matches actual request URL

3. HTTP 500 Internal Server Error

Symptoms:

- Runtime failure during external service dependency failure

Logs:

Unset

```
ERROR [camel] - Error evaluating choice block:  
java.lang.NullPointerException
```

Root Causes:

- Incorrect use of Camel Simple expressions (`random()` or string interpolation)
- Unexpected downstream error

Resolution:

- Add fallback logic for downstream errors

Log Interpretation Guide

Log Pattern	Meaning	Suggested Action
Error calling downstream service	Failed to call downstream service	Check URL, service availability
NullPointerException	Incorrect JSON template or unquoted interpolation (unexpected error)	Check indentation and syntax

Contact

For integration queries, contact the Customer Onboarding Platform team via [#cust-validation-core](#) or raise a ticket under [CV-COMPOSITE](#) JIRA queue.

OpenAPI Spec

```
openapi: 3.0.0
info:
  title: Customer Validation Service
  version: 1.0.0
  description: >
    Composite service that orchestrates customer identity and AML
    validations by
    invoking downstream services. This service does not perform any
    internal validation
    or error handling and transparently returns the output or error from
    underlying services.

paths:
  /validateCustomer:
    post:
      summary: Perform composite validation of a customer
      requestBody:
        required: true
        content:
          application/json:
            schema:
              $ref: "#/components/schemas/CustomerValidationRequest"
      responses:
        '200':
          description: Combined result from identity and AML validation
          content:
            application/json:
              schema:
                $ref: "#/components/schemas/CustomerValidationResponse"
```

```
'400':
  description: Validation error from identity or AML service
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorResponse"
'422':
  description: Business validation failed from downstream service
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorResponse"
'500':
  description: Internal server or integration error
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/ErrorResponse"
```

components:

 schemas:

 CustomerValidationRequest:

 type: object

 required:

- customerId
- fullName
- nationalId
- birthDate

 properties:

 customerId:

 type: string

 example: "CUST-102938"

 fullName:

 type: string

 example: "Alice Smith"

 nationalId:

 type: string

 example: "XYZ987654"

 birthDate:

 type: string

```
format: date
example: "1985-07-15"
```

CustomerValidationResponse:

```
type: object
properties:
  customerId:
    type: string
  identityValidation:
    type: object
    properties:
      status:
        type: string
        enum: [VERIFIED, FAILED, REVIEW_REQUIRED]
      identityType:
        type: string
      verificationScore:
        type: integer
    required:
      - status
      - verificationScore
  amlValidation:
    type: object
    properties:
      status:
        type: string
        enum: [PASS, FAIL]
      riskScore:
        type: integer
      riskLevel:
        type: string
        enum: [LOW, MEDIUM, HIGH]
    required:
      - status
      - riskScore
  timestamp:
    type: string
    format: date-time
```

ErrorResponse:

```
type: object
properties:
  error:
    type: string
    example: "Business Validation Error"
  message:
    type: string
    example: "Document has expired"
```