CustomerOnboardingService Technical Documentation

Overview

The **CustomerOnboardingService** is the main entry point for onboarding new customers in a banking context. It coordinates the overall onboarding workflow by:

- Accepting customer identity details
- Delegating identity and AML verification to the CustomerValidationService
- Not performing its own validation or scoring logic
- Returning the result of the validation step and onboarding decision

API Endpoint

POST /

Request Schema:

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

Response Fields:

onboardingStatus: StringvalidationDetails: Ob ject

• timestamp: ISO-8601

Common Error Patterns

1. HTTP 400 Bad Request

Symptoms:

• Malformed JSON or missing required fields

Logs:

```
Unset
ERROR - 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	Failed to call downstream	Check URL, service
service	service	availability

Contact

For ownership or incident escalation, contact the Customer Onboarding Team via #cust-onboarding-core or log an issue in the ONBOARDING-SVC JIRA project.

OpenAPI Spec

```
openapi: 3.0.0
info:
   title: Customer Onboarding Service
   version: 1.0.0
   description: >
        API to initiate customer onboarding by calling identity and AML
validation
        services. Returns a combined result with onboarding decision.

paths:
   /onboardCustomer:
   post:
        summary: Start onboarding process for a customer
        requestBody:
        required: true
        content:
        application/json:
        schema:
        $ref: '#/components/schemas/CustomerOnboardingRequest'
```

```
- customerId
- fullName
- nationalId
- birthDate
```

```
example: "Customer matched the OFAC sanctions list."
description: Application-specific error code
```