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	Error code	Error Message	Meaning	Suggested Action
Error calling downstream service	500	Error calling downstream service , errorCode=500	Failed to call downstream service	Check URL, 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
```