Test Summary for A2 XYA

# Section 1: Overview

Test Scenario Number: 1

Test Scenario Description:

Validate that the Temporal workflow initiates the move routine, which subsequently triggers the pay-to-mandate update workflows for each mandate linked to a deposit account. Each mandate undergoes an amend operation, with the workflow awaiting a signal from the event listener service to complete the amend mandate activity.

# Section 2: Prerequisites

1. 1. Configure mock expectation in the Open Channel Verification (ABX) service to return deposit accounts marked as open.
2. 2. Configure the mock server to respond with a list of mandate IDs associated with the accounts returned by ABX.
3. 3. Configure amend mandate response to include the status of the amend mandate operation.
4. 4. Ensure Kafka and the required topic are set up to handle message production for pay-to-mandate signals.

# Section 3: Execution Steps

1. 1. Trigger the move routine.
2. 2. Move routine sends a request to ABX for open deposit accounts.
3. 3. Move routine queries list XYA API using returned account numbers to fetch mandate identification numbers.
4. 4. Response from List XYA API is used to post each amend mandate request for all XYA linked to the deposit accounts.
5. 5. Post a message to the Kafka topic, as the mock service doesn’t publish to Kafka, to simulate an event consumed by the event listener service.
6. 6. Confirm that the event listener service consumes the message from Kafka, triggers the event handler, and signals the pay-to-mandate update workflow.
7. 7. Once all mandate messages are processed and signaled back, the move routine marks the amend mandate activity as complete.

# Section 4: Expected Outcomes

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| Step | Expected Outcome |
| Initiate Move Routine | Move routine starts and queries ABX for open deposit accounts. |
| Query List XYA API | List of XYA for the deposit accounts is retrieved and XYA are processed through amend mandate API. |
| Signal Workflow from Event Listener | Event listener successfully consumes Kafka messages and signals back to pay-to-mandate workflow. |
| Move Routine Completion | Each mandate is updated, and the move routine completes with a successful status. |

# Section 5: Summary and Conclusion

Test Description: This test validates the orchestration between multiple services and APIs involved in the A2 Mandate move routine. The workflow coordinates querying for open deposit accounts, retrieving associated XYA, and updating them through amend XYA API. Each workflow instance awaits a signal from an external event listener service. A Kafka message simulates real-time event handling, signaling the completion of each amend mandate.

Outcome: All steps executed successfully, confirming the end-to-end flow and integration between the Temporal workflow, event listener service, and Kafka messaging.