

## Repeat Handling

 See also API reference for Credit Transfer

[Check API](#) >

### How It Works

In the event the Sender fails to receive a response from RPP, the transaction status may fall into the state of unknown. In such scenario, the Sender could resend the request, but it may cause a duplicate posting as the original request could have been processed successfully in RPP

To mitigate such situation, RPP introduces a repeat request feature to support the Sender to resend the original request but indicating the request could be a retry attempt. This helps RPP to filter out any possible duplicate attempt. However, such feature should only be used during exceptional scenario and shall not be used as a default option to all requests

In the API Business Application Header, **<PssblDplct>** shall be set to true to indicate the request is a retry (REPEAT) attempt to prevent duplicate payment. Though, not all APIs are supporting this retry feature. User shall refer to the respective API specification for more information

### How to handle REPEAT request

Whenever RPP receives a REPEAT request, it will:

- Check if both the original request and response messages have been received
- If both original request and response messages are found:
  - RPP will not send a Credit Transfer message request
  - RPP will return to the OFI with the original message response

- If only the original message request is found:
  - RPP will place the REPEAT request into a REPEAT queue
  - The REPEAT request will be picked up and send to RFI for processing
  - RPP will return to the OFI with the REPEAT message response from RFI

Whenever RFI receives a REPEAT request, it will:

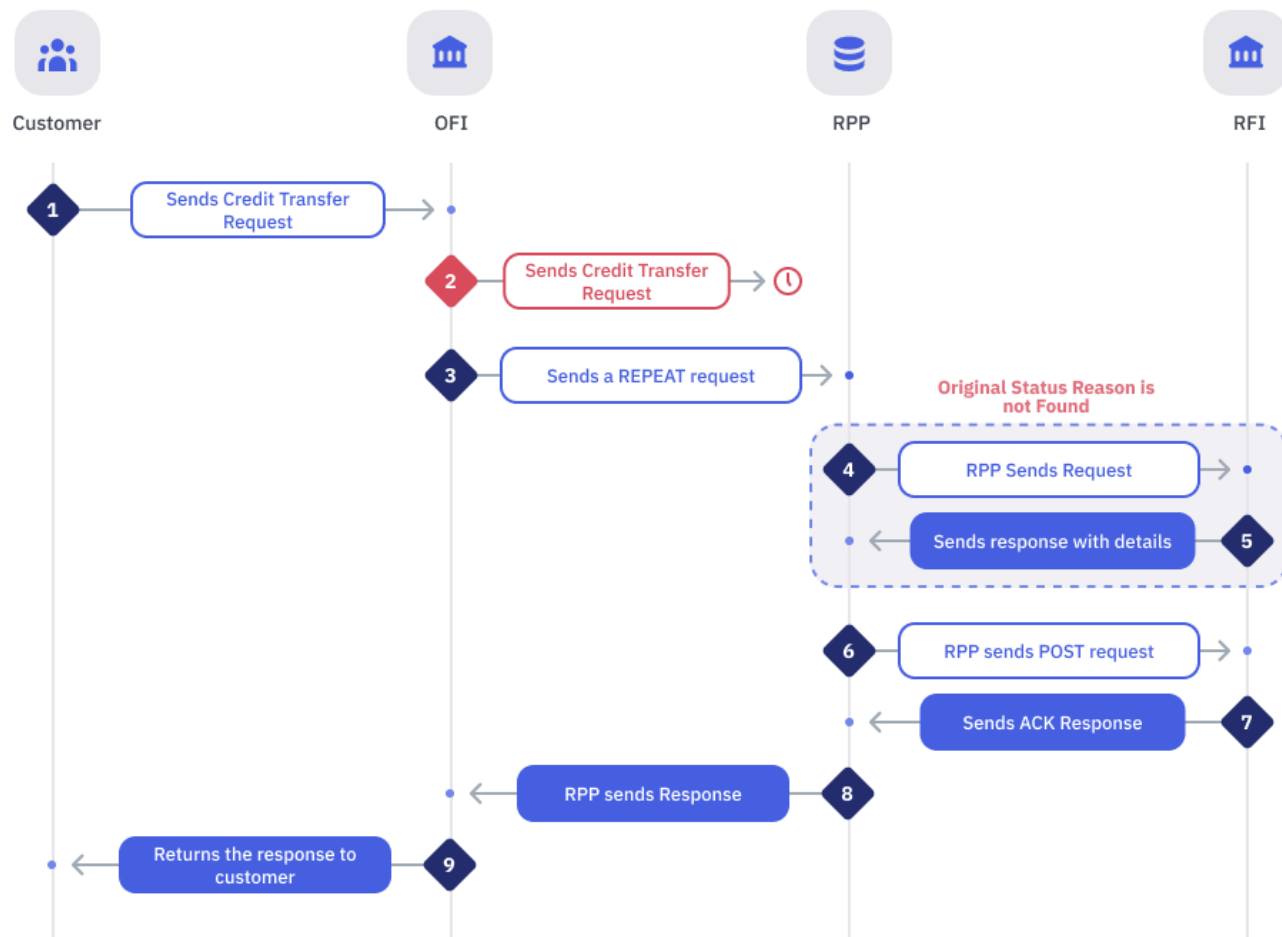
- If the original transaction has been posted successfully by the RFI, RFI will respond with the original transaction response instead of rejecting the REPEAT request as duplicate
- If the original transaction has not been processed previously, RFI will process the transaction and return the appropriate response to RPP

#### **INFO**

Participant is advised to perform a Transaction Enquiry first before initiating a retry attempt. Such inquiry allows Participant to confirm on the stage of the payment and reduces the frictions in performing a transaction retry immediately

## **Exception Flows**

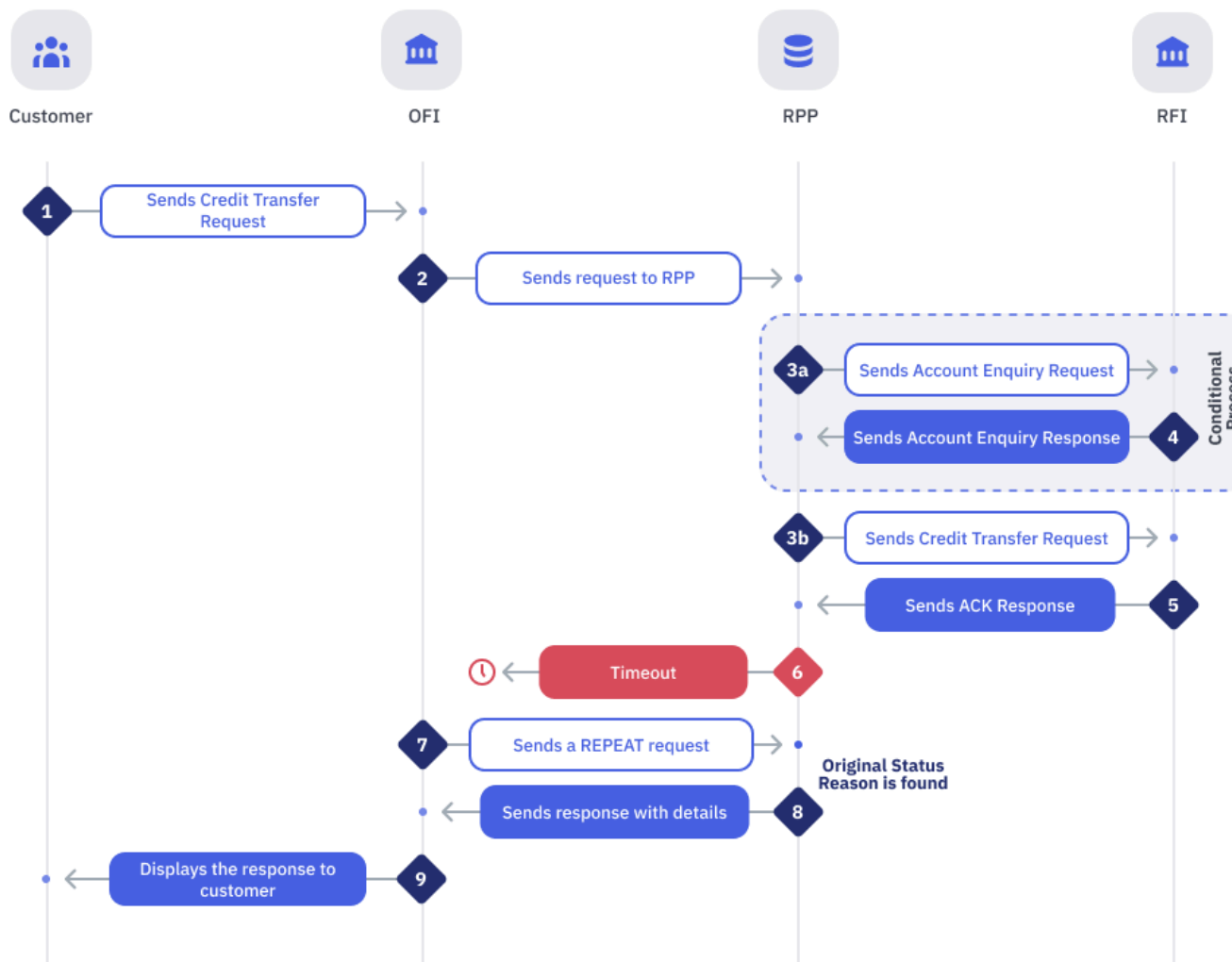
### **RPP Failed to Receive Request from OFI**



Condition	Actions	Alternatives
<p>OFI sent a request to RPP. However, RPP did not receive the request</p> <p>As no response is received</p>	<p>RPP shall:</p> <ul style="list-style-type: none"> <li>• Timeout</li> <li>• Return a NEGATIVE response with timeout reason</li> </ul>	<p>If retry is configured, OFI shall:</p> <ul style="list-style-type: none"> <li>• If retry count has not exceeded the maximum number of retries</li> <li>• Send a repeat request</li> </ul>

Condition	Actions	Alternatives
from RPP after x period of time, OFI eventually timeout	<p>RPP shall:</p> <ul style="list-style-type: none"> <li>• Display an appropriate error message to the Customer</li> <li>• Stop processing</li> <li>• Initiate a Transaction Enquiry separately to confirm on the payment status</li> </ul>	<ul style="list-style-type: none"> <li>• Continue processing</li> <li>• If retry count has exceeded the maximum number of retries</li> <li>• Display an ACCEPTED status message to Customer</li> <li>• Stop processing</li> <li>• Confirm the payment manually via Back Office portal</li> </ul>

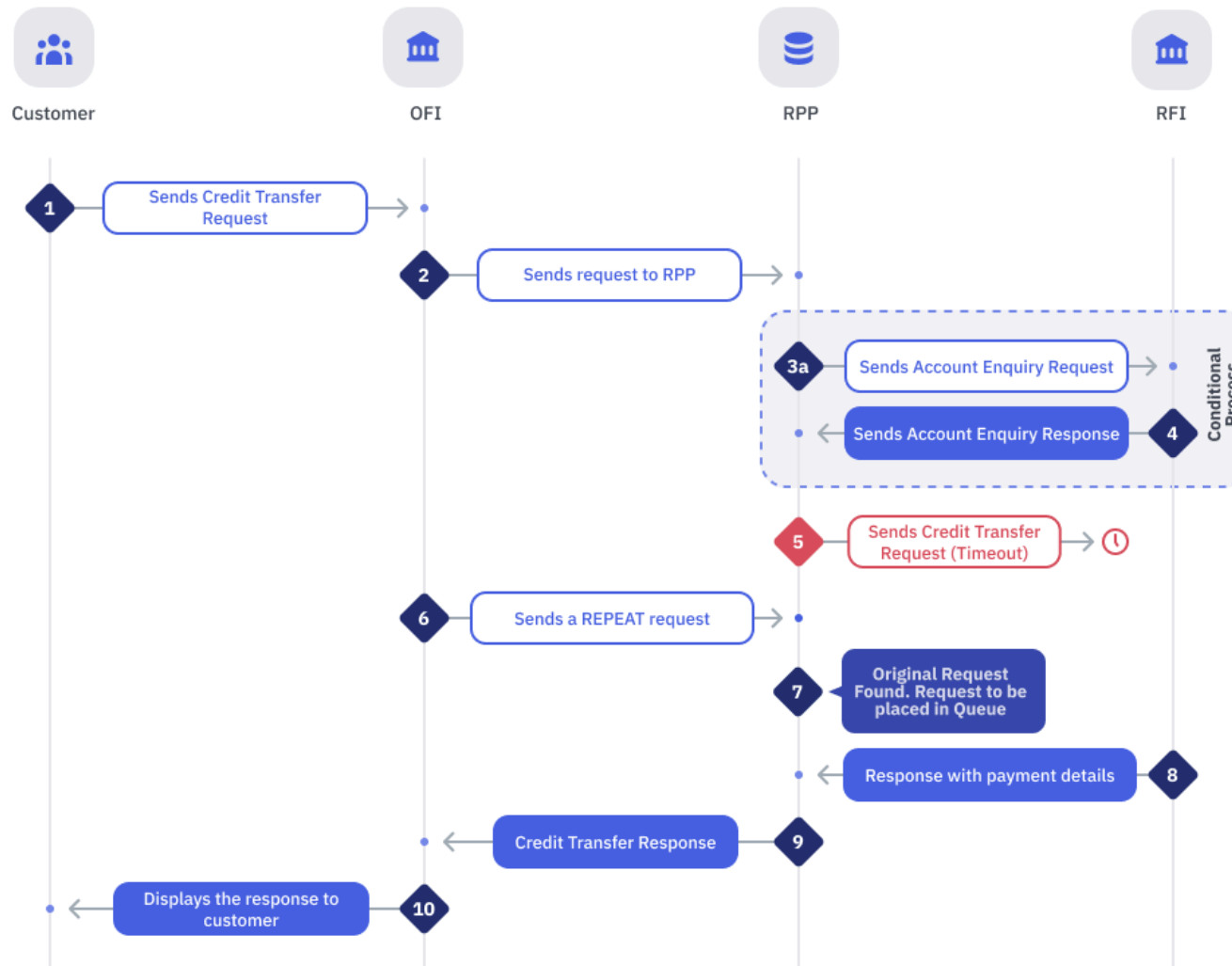
## OFI Failed to Receive Response from RPP



Condition	Actions	Alternatives
<p>OFI sent a request to RPP. However, RPP did not receive the request</p> <p>As no response is received</p>	<p>RPP shall:</p> <ul style="list-style-type: none"> <li>• Timeout</li> <li>• Return a NEGATIVE response with timeout</li> </ul>	<p>If retry is configured, OFI shall:</p> <ul style="list-style-type: none"> <li>• If retry count has not exceeded the maximum number of retries</li> </ul>

Condition	Actions	Alternatives
from RPP after x period of time, OFI eventually timeout	<p>reason</p> <p>RPP shall:</p> <ul style="list-style-type: none"> <li>• Display an appropriate error message to the Customer</li> <li>• Stop processing</li> <li>• Initiate a Transaction Enquiry separately to confirm on the payment status</li> </ul>	<ul style="list-style-type: none"> <li>• Send a repeat request</li> <li>• Continue processing</li> <li>• If retry count has exceeded the maximum number of retries</li> <li>• Display an ACCEPTED status message to Customer</li> <li>• Stop processing</li> <li>• Confirm the payment manually via Back Office portal</li> </ul>

## OFI Timeout due to Longer Processing Time at RFI

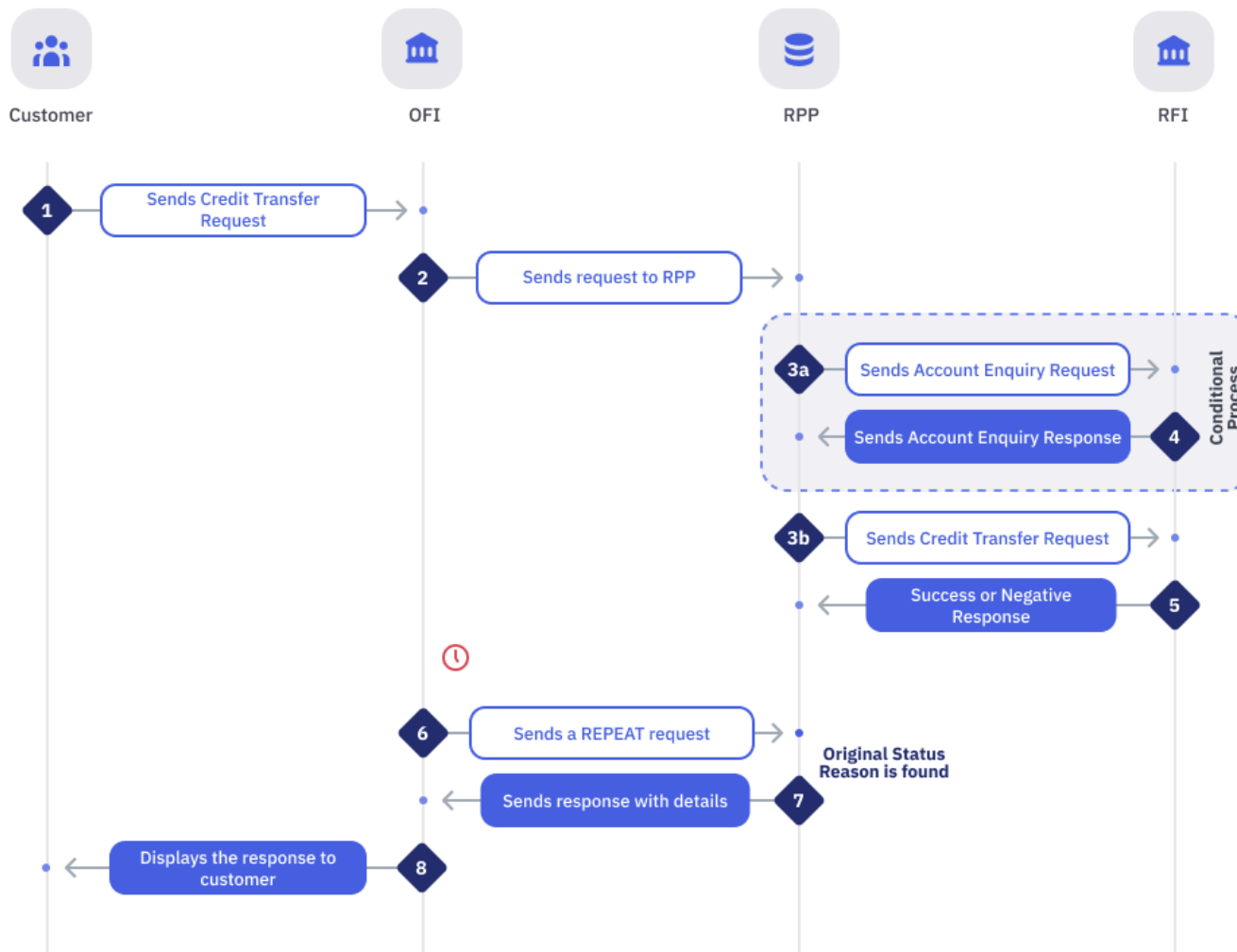


Condition	Actions	Alternatives
OFI sent a request to RPP. However, RPP did not receive the request	RPP shall: <ul style="list-style-type: none"> <li>Timeout</li> </ul>	If retry is configured, OFI shall:

Condition	Actions	Alternatives
As no response is received from RPP after x period of time, OFI eventually timeout	<ul style="list-style-type: none"> <li>Return a NEGATIVE response with timeout reason</li> </ul> <p>RPP shall:</p> <ul style="list-style-type: none"> <li>Display an appropriate error message to the Customer</li> <li>Stop processing</li> <li>Initiate a Transaction Enquiry separately to confirm on the payment status</li> </ul>	<ul style="list-style-type: none"> <li>If retry count has not exceeded the maximum number of retries <ul style="list-style-type: none"> <li>Send a repeat request</li> <li>Continue processing</li> </ul> </li> <li>If retry count has exceeded the maximum number of retries <ul style="list-style-type: none"> <li>Display an ACCEPTED status message to Customer</li> <li>Stop processing</li> <li>Confirm the payment manually via Back Office portal</li> </ul> </li> </ul>

## OFI Timeout while Response from RPP is in Transit to OFI

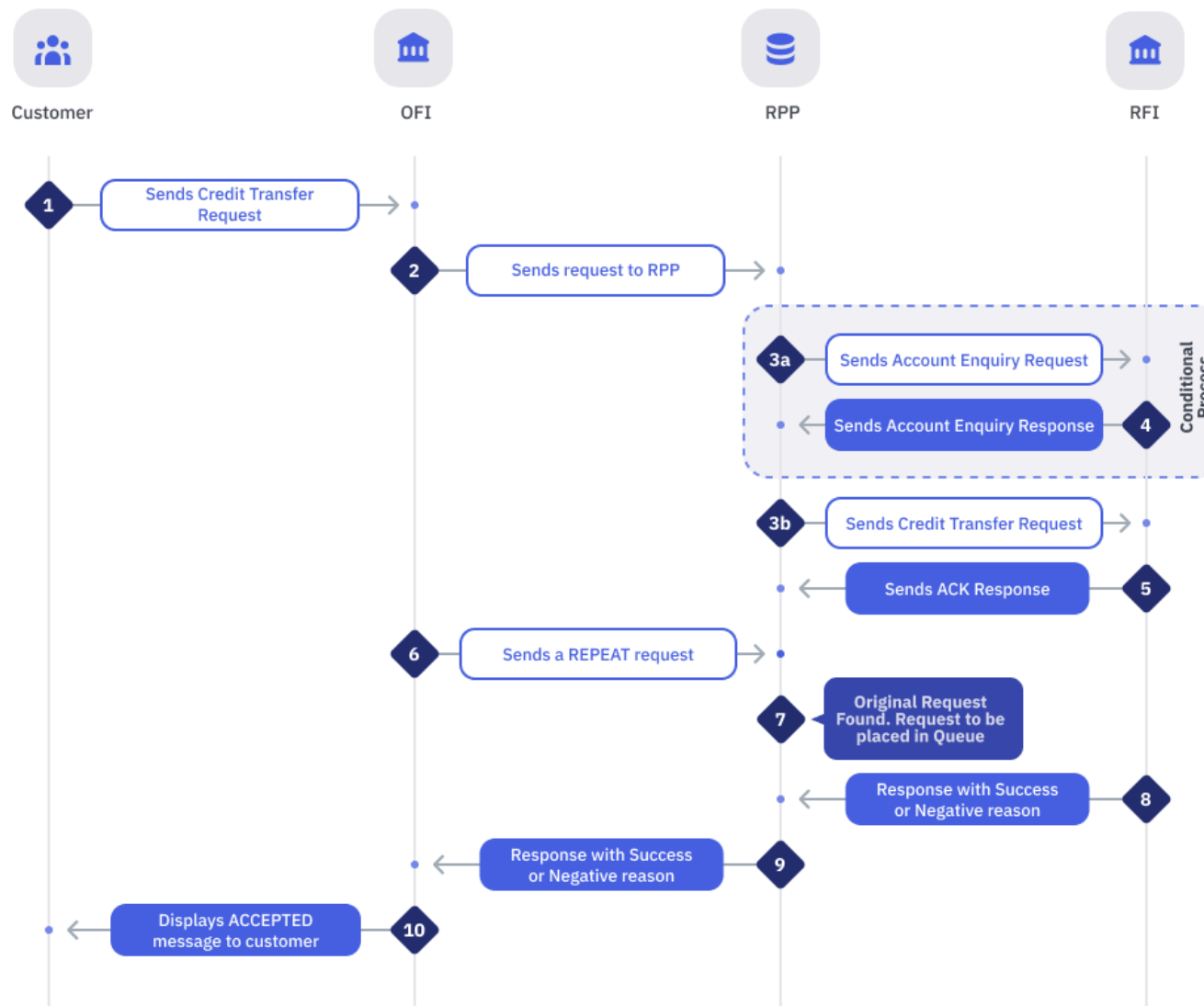




Condition	Actions	Alternatives
<p>OFI sent a request to RPP. However, RPP did not receive the request</p> <p>As no response is received</p>	<p>RPP shall:</p> <ul style="list-style-type: none"> <li>• Timeout</li> <li>• Return a NEGATIVE response with timeout</li> </ul>	<p>If retry is configured, OFI shall:</p> <ul style="list-style-type: none"> <li>• If retry count has not exceeded the maximum number of retries</li> </ul>

Condition	Actions	Alternatives
from RPP after x period of time, OFI eventually timeout	<p>reason</p> <p>RPP shall:</p> <ul style="list-style-type: none"> <li>• Display an appropriate error message to the Customer</li> <li>• Stop processing</li> <li>• Initiate a Transaction Enquiry separately to confirm on the payment status</li> </ul>	<ul style="list-style-type: none"> <li>• Send a repeat request</li> <li>• Continue processing</li> <li>• If retry count has exceeded the maximum number of retries</li> <li>• Display an ACCEPTED status message to Customer</li> <li>• Stop processing</li> <li>• Confirm the payment manually via Back Office portal</li> </ul>

## OFI Initiated Credit Transfer and REPEAT of the Same Credit Transfer



Condition	Actions	Alternatives
OFI sent a request to RPP. However, RPP did not	RPP shall: <ul style="list-style-type: none"> <li>• Timeout</li> </ul>	If retry is configured, OFI shall:

Condition	Actions	Alternatives
<p>receive the request</p> <p>As no response is received from RPP after x period of time, OFI eventually timeout</p>	<ul style="list-style-type: none"> <li>Return a NEGATIVE response with timeout reason</li> </ul> <p>RPP shall:</p> <ul style="list-style-type: none"> <li>Display an appropriate error message to the Customer</li> <li>Stop processing</li> <li>Initiate a Transaction Enquiry separately to confirm on the payment status</li> </ul>	<ul style="list-style-type: none"> <li>If retry count has not exceeded the maximum number of retries <ul style="list-style-type: none"> <li>Send a repeat request</li> <li>Continue processing</li> </ul> </li> <li>If retry count has exceeded the maximum number of retries <ul style="list-style-type: none"> <li>Display an ACCEPTED status message to Customer</li> <li>Stop processing</li> <li>Confirm the payment manually via Back Office portal</li> </ul> </li> </ul>

## See also

- [Recommended validations](#)
- [How to use Transaction Enquiry to check on transaction status](#)