Credit Transfer

</> See also API reference for Credit Transfer
Check API >

Introduction

(i) INFO

The terminology **Phase 1** is being used interchangeably to refer to services that are originally built for DuitNow Transfer i.e. Account Enquiry, Credit Transfer and National Addressing Database (NAD) related. QR, P2P, JomPAY and etc are built as overlay services on top of Phase 1. Hence these overlay services will adopt similar architecture and user will be asked to refer to Phase 1 sections throughout our documentations

Instant Transfer is a Credit Transfer service in which the customer sends the payment request and confirms the recipient's name before the actual credit transfer is performed. This payment request is a two-step process where an account enquiry request is sent to the Receiving Participant to request for the recipient's name, and upon successful retrieval of the Account Name, displays it to the customer for confirmation. Once confirmation is received, the Originating Participant then debits customer account and sends the actual Credit Transfer request to the Receiving Participant for processing

DuitNow Transfer will be marketed for use by the Participants' Retail and Corporate customers and invoked from the Participants' Internet and Mobile Banking channels

Overlay Services

Overlay services are services that augment a payment service by building on top of Real-time Retail Payments Platform (RPP) existing infrastructure to deliver enhanced value to the participants within Malaysia payment network

What are Overlay Services?

In RPP, we have built the below overlay services to improve the workflows and customer experience in facilitating different payment use cases

- QR payment for both domestic and cross border
- Bill payment via JomPAY
- Request-to-pay for end user to request or make a payment within the eCommerce space

Refer to the respective service sections on our product offerings

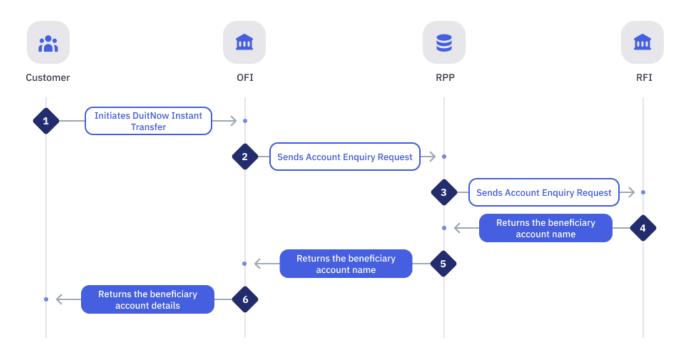
Account Enquiry

NOTE

Account resolution enquiry is used to determine if particular beneficiary account is valid and ready to receive payment. There are many situations in which you may need to know if a beneficiary account provided by customer is valid before accepting payment request. Examples include:

- Customer needs to validate the beneficiary account name before making final confirmation to the payment request
- Customer needs to ensure the recipient details before making top-up to their eWallet account

Successful End-to-End Account Enquiry Flow



Step	Sender	Receiver	Process
1	Customer	OFI	Customer logs into Online Banking or Mobile Banking app and initiates a DuitNow Instant Transfer
2	OFI	RPP	 OFI performs the following: Authorize and validate the Instant Transfer transaction Any internal validations If all validations are successful: Send Account Enquiry request

Step	Sender	Receiver	Process
3	RPP	RFI	 Message Validations Business Validations If any of the Message Validations fails: Return a REJECT response to OFI If any of the Business Validations fails: Return a NEGATIVE response to OFI If all validations are successful: Send Account Enquiry message request

Step	Sender	Receiver	Process
4	RFI	RPP	 RFI performs the following: Message Validations Business Validations Beneficiary Account Validations If any of the Message Validations fails: Send a REJECT response If any of the Business Validations fails: Send a NEGATIVE response If any of the Beneficiary Account Validations fails: Send a NEGATIVE response If all validations are successful: Send Account Enquiry message response with the necessary beneficiary account information
5	RPP	OFI	 RPP performs the following: Message Validations Business Validations If any of the validations are not successful: Send a NEGATIVE/REJECT response If all validations are successful: Send Account Enquiry message response with the necessary beneficiary account information

Step	Sender	Receiver	Process
6	OFI	Customer	 OFI performs the following: Message Validations Business Validations If all validations are successful: If SUCCESSFUL response is received: Display the Beneficiary Account Name to the Customer for payment confirmation If UNSUCCESSFUL response is received: Display an error message to the Customer

Exception Flows RPP Failed to Receive Request from OFI

Condition	Actions	Alternatives
OFI sent a request to RPP. However, RPP did not receive the request As no response is received from RPP after x period of time, OFI eventually timeout	 OFI shall: Timeout Display an appropriate error message to the Customer Stop processing 	If retry is configured, OFI shall: If retry count has not exceeded the maximum number of retries Send a repeat request Continue processing If retry count has exceeded the maximum number of

Condition	Actions	Alternatives
		retries Display an error message to Customer Stop processing

OFI Failed to Receive Response from RPP

Condition	Actions	Alternatives
OFI sent a request to RPP, and RPP did receive the request. However, RPP response did not reach to OFI As no response is received from RPP after x period of time, OFI eventually timeout	 OFI shall: Timeout Display an appropriate error message to the Customer Stop processing 	If retry is configured, OFI shall: If retry count has not exceeded the maximum number of retries Send a repeat request Continue processing If retry count has exceeded the maximum number of retries Display an error message to Customer Stop processing

RFI Failed to Receive Request from RPP

Condition	Actions	Alternatives
RPP sent a request to RFI. However, RFI did not receive the request from RPP As no response is received from RFI after x period of time, RPP eventually timeout	 RPP shall: Timeout Return a NEGATIVE response with timeout reason OFI shall: Display an appropriate error message to the Customer Stop processing 	-

RPP Failed to Receive Response from RFI

Condition	Actions	Alternatives
RPP sent a request to RFI, and RFI did receive the request. However, RFI response did not reach to RPP As no response is received from RFI after x period of time, RPP eventually timeout	RPP shall: Timeout Return a NEGATIVE response with timeout reason OFI shall:	-

Condition	Actions	Alternatives
	 Display an appropriate error message to the Customer Stop processing 	

Credit Transfer

NOTE

A Credit Transfer is a push payment transaction of an amount from a bank account (the debtor account) to a beneficiary account (the creditor) that can be invoked from the Participants' various channels or touchpoints within their ecosystem. Some of these touchpoints may be Internet Banking, Mobile Banking, Branches, Kiosks and etc

The Originating Participant initiates a payment instruction that pushes a credit to the Receiving Participant. The instruction must be sent one at a time to RPP (in case of Bulk Credit Transfers)

Successful End-to-End Credit Transfer Flow

Step	Sender	Receiver	Process
1	Customer	OFI	Customer verifies the beneficiary account details and confirms on the payment
2	OFI	RPP	 OFI performs the following: Authorize and validate the Instant Transfer transaction Any internal validations Debit source account If all validations are successful:

Step	Sender	Receiver	Process	
			Send Credit Transfer message request	
3	RPP	RFI	 Message Validations Business Validations Liquidity Position Validations If any of the Message Validations fails: Return a REJECT response to OFI If any of the Business Validations fails: Return a NEGATIVE response to OFI If any of the Liquidity Position Validations fails: Return a NEGATIVE response to OFI If all validations are successful: Check if an Account Enquiry request has been made in prior within a stipulated time interval If Account Enquiry is NOT found (Participant is expected to always initiate an Account Enquiry prior to Credit Transfer. This control above is only meant for RPP internal handling under certain circumstances): Send Account Enquiry message request by using the same message but changing the transaction code from Credit Transfer to Account Enquiry Go to Step 4 If Account Enquiry is found: 	

Step	Sender	Receiver	Process
			 Send Credit Transfer message request Go to Step 7
CONE	DITIONAL AC	COUNT EN	QUIRY
4	RFI	RPP	 Message Validations Business Validations Beneficiary Account Validations If any of the Message Validations fails: Send a REJECT response If any of the Business Validations fails: Send a NEGATIVE response If any of the Beneficiary Account Validations fails: Send a NEGATIVE response If all validations are successful: Send Account Enquiry message response with the necessary beneficiary account information
5	RPP	OFI	 RPP performs the following: Message Validations Business Validations If any of the Message Validations fails:

Step	Sender	Receiver	Process
			 Return a REJECT response to OFI If any of the Business Validations fails: Return a NEGATIVE response to OFI If all validations are successful: Check the message response If response is SUCCESSFUL Send Credit Transfer message request Go to Step 7 If response is UNSUCCESSFUL Return a NEGATIVE response to OFI Credit Transfer will not be triggered
6	OFI	Customer	 OFI performs the following: Message Validations Business Validations If all validations are successful: If SUCCESSFUL response is received: Display the Beneficiary Account Name to the Customer for payment confirmation If UNSUCCESSFUL response is received: Display an error message to the Customer

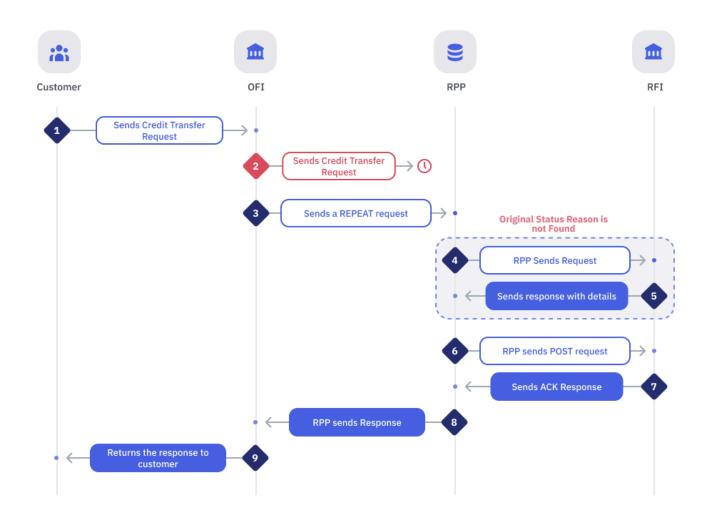
Step	Sender	Receiver	Process	
CRED	CREDIT TRANSFER			
7	RFI	RPP	 Message Validations Business Validations Beneficiary Account Validations If any of the Message Validations fails: Send a REJECT response If any of the Business Validations fails: Send a NEGATIVE response If any of the Beneficiary Account Validations fails: Send a NEGATIVE response If all validations are successful: Send Credit Transfer with successful message response Notes: When a REPEAT request is received by the RFI from RPP: 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 	

Step	Sender	Receiver	Process
8	RPP	OFI	 Message Validations Business Validations If any of the Message Validations fails: Send a REJECT response If any of the Business Validations fails: Send a NEGATIVE response If all validations are successful: Update liquidity and settlement positions of both OFI and RFI Send Credit Transfer message response Notes: If the signature received from RFI could not be verified: RPP will send an ACCEPTED (signature error) response to the OFI if the RFI responds with a SUCCESSFUL transaction status RPP will send an actual REJECT response to the OFI if RFI responds with a REJECT transaction status This should take care of any message manipulation done within the data when a signature could not be verified
9	OFI	Customer	OFI performs the following: • Message Validations • Business Validations

Step	Sender	Receiver	Process
			 If all validations are successful: If SUCCESSFUL response is received: Display the final payment status to the Customer If UNSUCCESSFUL response is received: Display an error message to the Customer Perform a debit reversal on the Customer account (if necessary)

Exception Flows

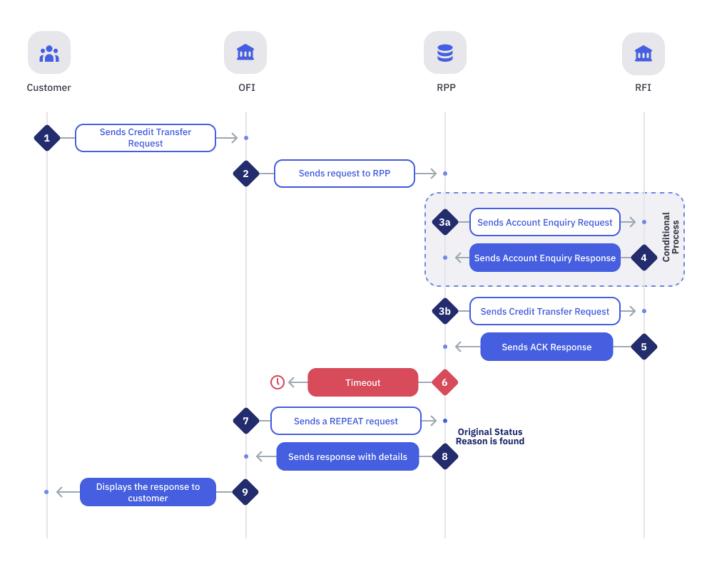
RPP Failed to Receive Request from OFI



Condition	Actions	Alternatives
OFI sent a request to RPP. However, RPP did not receive the request As no response is received	RPP shall: • Timeout • Return a NEGATIVE response with timeout reason OFI shall:	If retry is configured, OFI shall: If retry count has not exceeded the maximum number of retries Send a repeat request

Condition	Actions	Alternatives
from RPP after x period of time, OFI eventually timeout	 Display an appropriate error message to the Customer Stop processing Initiate a Transaction Enquiry separately to confirm on the payment status 	 Continue processing If retry count has exceeded the maximum number of retries Display an ACCEPTED status message to Customer Stop processing Confirm the payment manually via Back Office portal

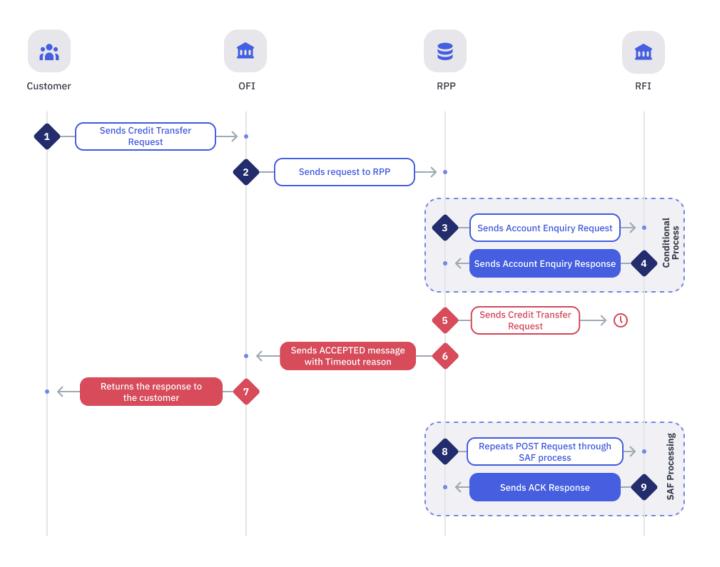
OFI Failed to Receive Response from RPP



Condition	Actions	Alternatives
OFI sent a request to RPP, and RPP did receive the request. However, RPP response did not reach to OFI	RPP shall:TimeoutReturn a NEGATIVE response with timeout	If retry is configured, OFI shall: If retry count has not exceeded the maximum number of retries

Condition	Actions	Alternatives
As no response is received from RPP after x period of time, OFI eventually timeout	reason OFI shall: Display an appropriate error message to the Customer Stop processing Initiate a Transaction Enquiry separately to confirm on the payment status	 Send a repeat request Continue processing If retry count has exceeded the maximum number of retries Display an ACCEPTED status message to Customer Stop processing Confirm the payment manually via Back Office portal

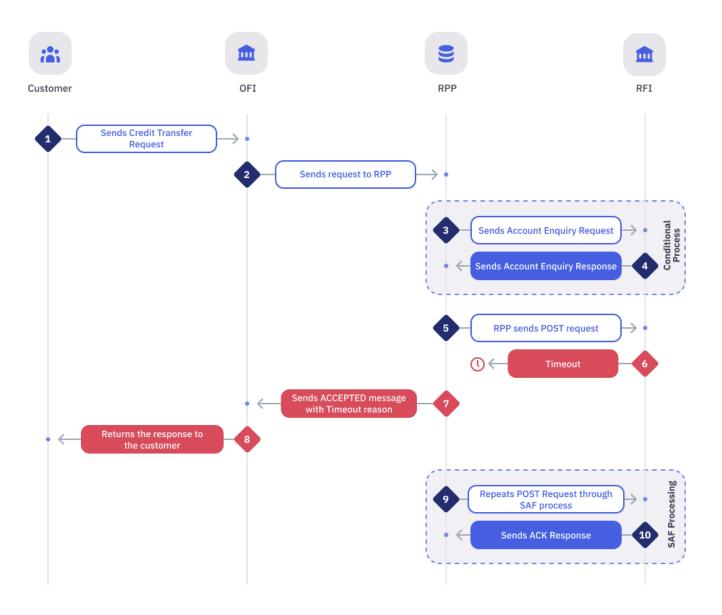
RFI Failed to Receive Request from RPP



Condition	Actions	Alternatives
RPP sent a request to RFI. However, RFI did not receive the request from RPP As no response is received	RPP shall:TimeoutReturn a NEGATIVE response with timeout reason	If retry is configured, RPP shall: • Store the request to SAF • If retry count has not exceeded the maximum

Condition	Actions	Alternatives
from RFI after x period of time, RPP eventually timeout	 OFI shall: Display an appropriate error message to the Customer Stop processing Initiate a Transaction Enquiry separately to confirm on the payment status 	number of retries Send a repeat request Continue processing If retry count has exceeded the maximum number of retries Display an ACCEPTED status message to Customer Stop processing Confirm the payment manually via Back Office portal

RPP Failed to Receive Response from RFI



Condition	Actions	Alternatives	
RPP sent a request to RFI, and RFI did receive the request. However, RFI response did not	RPP shall: • Timeout	If retry is configured, RPP shall: • Store the request to SAF	

Condition	Actions	Alternatives
reach to RPP As no response is received from RFI after x period of time, RPP eventually timeout	 Return a NEGATIVE response with timeout reason OFI shall: Display an appropriate error message to the Customer Stop processing 	 If retry count has not exceeded the maximum number of retries Send a repeat request Continue processing If retry count has exceeded the maximum number of retries Display an ACCEPTED status message to Customer Stop processing Confirm the payment manually via Back Office portal

Exception Conditions Rejected by RPP

Below are some of the conditions that the request may be rejected

No	Condition	Description	Actions
1	Message Validation Error	An invalid message was sent to RPP. Some of the possible causes are: Unknown inbound message is received Message signature could not be verified Failed in message parsing Mandatory field validation has failed	RPP will not send the request to RFI. A REJECT response will be returned to OFI Notes: A copy of the request message in FULL will be returned in the REJECT response in <addtldata> field. This can be used by the sender to investigate the issue with the message</addtldata>
2	Business Validation Error	Some of the possible causes are: • Error in date validation • Error in RFI validations • RFI is inactive	RPP will not send the request to RFI. A NEGATIVE response will be returned to OFI
3	Liquidity Position Threshold Exceeded – Red	The maximum Liquidity Position Threshold of the OFI has been exceeded	RPP will not send the request to RFI. A NEGATIVE response will be returned to OFI Notes:

No	Condition	Description	Actions
			Participant needs to update their liquidity position with Bank Negara Malaysia before RPP will resume accepting new incoming transactions
4	Proxy Validation Error	RPP could not resolve the proxy to a valid account number	If there is no discrepancy between the request and NAD Proxy information, proceed with the Pay by Proxy request to the RFI
			If the Proxy Resolution Enquiry returns unsuccessful or there is any discrepancy between the request and the NAD Proxy information, send a negative response to the OFI

Rejected by RFI

Below are some of the conditions that the request may be rejected

No	Condition	Description	Actions
1	Message Validation Error	An invalid message was sent to RPP. Some of the possible causes are: • Unknown inbound message is received	RFI will not process the request. A REJECT response will be returned to RPP Notes: A copy of the request message in

No	Condition	Description	Actions
		 Message signature could not be verified Failed in message parsing Mandatory field validation has failed 	FULL will be returned in the REJECT response in <addtldata></addtldata> field. This can be used by the sender to investigate the issue with the message
2	Business Validation Error	Some of the possible causes are: • Error in date validation • Error in RFI validations • RFI is inactive	RFI will not process the request. A NEGATIVE response will be returned to RPP
3	Beneficiary Account Validation Error	Some of the possible causes are: Beneficiary account number does not exist Invalid beneficiary account format and check digit Beneficiary account is closed, dormant, hold, frozen, inactive or any other status that prohibits fund crediting to the account Beneficiary account is blacklisted	RFI will reject the request. A NEGATIVE response will be returned to RPP

Timeout

Below are some of the conditions that a timeout could occur

No	Condition	Description	Actions
1	RPP failed to receive any incoming request from OFI	Request was sent by OFI but RPP failed to receive the request	 OFI can send a new Account Enquiry request Credit Transfer OFI is advisable to send a Transaction Enquiry to check on the payment status In the event a payment needs to be resent, OFI can resend the same request up to the maximum number of retries If the maximum number of retries has been exceeded, OFI shall display an appropriate error message to the Customer Notes: For Credit Transfer, if the maximum number of retries has been exceeded, OFI shall display an ACCEPTED message to the Customer and confirms the payment status via Back Office portal. If request is not successful, then manual processing/refund shall be performed
2	OFI failed to receive response from RPP	RPP has responded to the OFI but OFI failed	Account Enquiry OFI can send a new Account Enquiry request Credit Transfer

No	Condition	Description	Actions
		to receive the response	 OFI is advisable to send a Transaction Enquiry to check on the payment status In the event a payment needs to be resent, OFI can resend the same request up to the maximum number of retries If the maximum number of retries has been exceeded, OFI shall display an appropriate error message to the Customer Notes: For Credit Transfer, if the maximum number of retries has been exceeded, OFI shall display an ACCEPTED message to the Customer and confirms the payment status via Back Office portal. If request is not successful, then manual processing/refund shall be performed
3	RFI failed to receive request from RPP	Request was sent by RPP but RFI failed to receive the request	RPP will respond to OFI with ACCEPTED (timeout reason) and stores the request to SAF for retry purpose (if applicable) OFI shall display an appropriate error message to the Customer Notes: RFI shall not reject request originates from SAF
4	RPP failed to receive response from RFI	RFI has responded to RPP but RPP failed to receive the response	RPP will respond to OFI with ACCEPTED (timeout reason) and stores the request to SAF for retry purpose (if applicable) OFI shall display an appropriate error message

No	Condition	Description	Actions
			 Notes: RFI shall not reject request originates from SAF RPP may choose to initiate a Transaction Enquiry to confirm on the payment status instead of payment retry depending on the situation

Inflight Exceptions

Below are some of the conditions that an inflight exception could occur

No	Condition	Description	Actions
1	OFI timed-out and sends a REPEAT request while RFI is processing the transaction	Request was sent by OFI but RFI has taken a longer time to process the transaction so OFI timed-out	RPP will place the REPEAT request in queue. During processing, RPP will respond with the original response to OFI
2	OFI timed-out and sends a REPEAT request while the response from RPP is in transit to OFI	RPP has responded to the OFI but OFI timed out first and sent a REPEAT before the	RPP will place the REPEAT request in queue. During processing, RPP will respond with the original response to OFI

No	Condition	Description	Actions
		response from RPP is received	
3	OFI initiated 2 transactions (1 Original and 1 REPEAT) one after the other – OFI will terminate the first session before initiating the REPEAT session	OFI initiated a Credit Transfer and a REPEAT of the same Credit Transfer transaction	Depends on at which point the REPEAT request has been received by RPP: CT request has been sent but no response: RPP will respond with ACCEPTED to OFI CT request has been sent and response received from RFI RPP will respond with the original response CT request has not been sent to RFI RPP will respond with ACCEPTED to OFI

Account Enquiry

Below illustrates the message schema to be used for each transaction leg. For actual schema and message version, please refer to the API specifications instead

No	Condition	Scenario	Sender	Receiver	Message Schema Out: From Sender In: To Receiver
1	1 Success Account Enquiry	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06	
			RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06
			RFI	RPP	Out: pacs.002.001.08 In: pacs.002.001.08
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08

No	Condition	Scenario	Sender	Receiver	Message Schema Out: From Sender In: To Receiver
2	Message Validation Failure 1	Request from OFI: • Signature could not be verified • Message parsing failed	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
		 Mandatory fields level validation failed Unknown inbound message 	RPP	OFI	Out: admi.002.001.01 In: admi.002.001.01
3	Message Validation Failure 2	Signature could not be	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06
			RFI	RPP	Out: admi.002.001.01 In: admi.002.001.01

No	Condition	Scenario	Sender	Receiver	Message Schema
					Out: From Sender In: To Receiver
			RPP	OFI	Out: admi.002.001.01 In: admi.002.001.01
Vali	Validation •	Response from RFI: • Signature could not be verified	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06
			RFI	RPP	Out: pacs.002.001.08 In:pacs.002.001.08
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08
5	Message Validation	Response from RPP:	OFI	RPP	Out: pacs.008.001.06

No	Condition	Scenario	Sender	Receiver	Message Schema
					Out: From Sender In: To Receiver
	Failure 4	Signature could not be verified			In: pacs.008.001.06
		RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06	
			RFI	RPP	Out: pacs.002.001.08 In: pacs.002.001.08
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08
6	Business Validation Failure	idation of RPP	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06 In: NA

No	Condition	Scenario	Sender	Receiver	Message Schema Out: From Sender In: To Receiver
			RFI	RPP	Out: pacs.002.001.08 In: NA
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08
7	7 Beneficiary Account Validation Failure RFI returns a negative response due to account related validation failure like Invalid Account, Account Closed, Account On hold, Account Blacklisted and etc	response due to account related validation failure like Invalid Account,	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
		RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06	
		RFI	RPP	Out: pacs.002.001.08 In: pacs.002.001.08	
			RPP	OFI	Out: pacs.002.001.08

No	Condition	Scenario	Sender	Receiver	Message Schema Out: From Sender In: To Receiver
					In: pacs.002.001.08
8	8 Timeout 1	meout 1 RPP did not receive request	OFI	RPP	Out: pacs.008.001.06 In: NA
			RPP	RFI	Out: NA In: NA
			RFI	RPP	Out: NA In: NA
			RPP	OFI	Out: NA In: NA
9	Timeout 2	2 RFI did not receive request	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06 In: NA

No	Condition	Scenario	Sender	Receiver	Message Schema Out: From Sender In: To Receiver
			RFI	RPP	Out: NA In: NA
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08
10	10 Timeout 3 RPP did not response	RPP did not receive response	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06
			RFI	RPP	Out: pacs.002.001.08 In: NA

No	Condition	Scenario	Sender	Receiver	Message Schema Out: From Sender In: To Receiver
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08
11	11 Timeout 4 OFI did not receive response		OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06
			RFI	RPP	Out: pacs.002.001.08 In: pacs.002.001.08
			RPP	OFI	Out: pacs.002.001.08 In: NA

Credit Transfer

No	Condition	Scenario	Sender	Receiver	Message Schema Out: From Sender In: To Receiver
1	1 Success Account Enquiry	unt	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06
			RFI	RPP	Out: pacs.002.001.08 In: pacs.002.001.08
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08
2	Message Validation Failure 1	Request from OFI:Signature could not be verifiedMessage parsing failed	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06

No	Condition	Scenario	Sender	Receiver	Message Schema Out: From Sender
					In: To Receiver
		 Mandatory fields level validation failed Unknown inbound message 	RPP	OFI	Out: admi.002.001.01 In: admi.002.001.01
3	Nessage Validation Failure 2 Request from RPP: Signature could not be verified Message parsing failed Mandatory fields level validation failed Unknown inbound message	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06	
		RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06	
		RFI	RPP	Out: admi.002.001.01 In: admi.002.001.01	
		RPP	OFI	Out: admi.002.001.01 In: admi.002.001.01	

No	Condition	Scenario	Sender	Receiver	Message Schema Out: From Sender In: To Receiver
4	4 Message Validation Failure 3 Response from RFI: • Signature could not be verified	 Signature could not be 	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
		RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06	
		RFI	RPP	Out: pacs.002.001.08 In:pacs.002.001.08	
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08
5	3	Response from RPP: • Signature could not be verified	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06

		Scenario	Sender	Receiver	Message Schema
					Out: From Sender In: To Receiver
					In: pacs.008.001.06
		RFI	RPP	Out: pacs.002.001.08 In: pacs.002.001.08	
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08
6	Business Validation Failure	alidation of RPP	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06 In: NA
			RFI	RPP	Out: pacs.002.001.08 In: NA

No	Condition	Scenario	Sender	Receiver	Message Schema
					Out: From Sender In: To Receiver
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08
7	Beneficiary Account Validation Failure	response due to account related validation failure like Invalid Account,	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
	Account Closed, Account On hold, Account Blacklisted and etc	RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06	
			RFI	RPP	Out: pacs.002.001.08 In: pacs.002.001.08
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08

No	Condition	Scenario	Sender	Receiver	Message Schema Out: From Sender In: To Receiver
8	Timeout 1	RPP did not receive request	OFI	RPP	Out: pacs.008.001.06 In: NA
			RPP	RFI	Out: NA In: NA
			RFI	RPP	Out: NA In: NA
			RPP	OFI	Out: NA In: NA
9	Timeout 2	RFI did not receive request	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06 In: NA
			RFI	RPP	Out: NA In: NA

No	Condition	Scenario	Sender	Receiver	Message Schema
					Out: From Sender In: To Receiver
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08
10	Timeout 3	RPP did not receive response	OFI	RPP	Out: pacs.008.001.06 In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06
			RFI	RPP	Out: pacs.002.001.08 In: NA
			RPP	OFI	Out: pacs.002.001.08 In: pacs.002.001.08
11	Timeout 4	OFI did not receive response	OFI	RPP	Out: pacs.008.001.06

No	Condition	Scenario	Sender	Receiver	Message Schema
					Out: From Sender In: To Receiver
					In: pacs.008.001.06
			RPP	RFI	Out: pacs.008.001.06 In: pacs.008.001.06
			RFI	RPP	Out: pacs.002.001.08 In: pacs.002.001.08
			RPP	OFI	Out: pacs.002.001.08 In: NA

See also

- Recommended validations
- How does credit transfer reversal work
- How does repeat message work
- How does SAF work