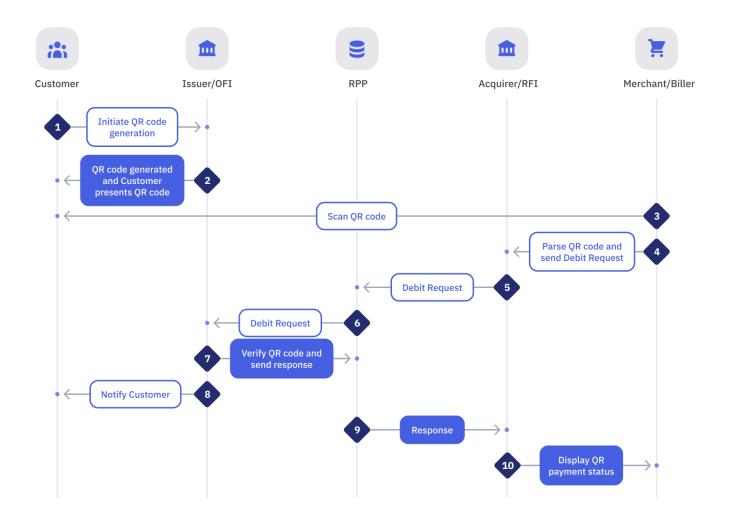


Consumer-Presented QR



End-to-End Flow

Successful End-to-End Consumer-Presented QR Flow



	Process
1 Customer Issuer	Customer logs into Online Banking or Mobile Banking app and initiates a QR code generation
2 Issuer Customer	Issuer generates a QR code and Customer presents the generated QR to Merchant

Step	Sender	Receiver	Process
3	Merchant	Acquirer	Merchant scans the QR code presented by the Customer
4	Merchant	Acquirer	Merchant initiates QR Debit request
5	Acquirer	RPP	 Acquirer performs the following: Authorize and validate the QR Debit transaction Parse the QR code to extract Application Identifier (AID) Issuer ID Type of Source of Funds Validate Type of Source of Funds against Merchant's Acceptable Source of Funds Any internal validations. If all validations are successful: If AID belongs to PayNet, Issuer will: For On-Us Customer NOT route the request to RPP For Off-Us Customer Send QR Debit request to RPP If AID does not belongs to PayNet, Issuer will: Send QR Debit request to RPP

Step	Sender	Receiver	Process
6	RPP	Issuer	 RPP performs the following: Message Validations Business Validations If any of the Message Validations fails: Return a REJECT response to Acquirer If any of the Business Validations fails: Return a NEGATIVE response to Acquirer If all validations are successful: Send QR Debit message request
7	Issuer	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: Debit fund from customer account

Step	Sender	Receiver	Process
			Send QR Debit message response
8	Issuer	Customer	Issuer notifies Customer on QR payment status
9	RPP	Acquirer	 RPP performs the following: 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 Issuer and Acquirer Send QR Debit request message response Notes: If the signature received from Issuer could not be verified: RPP will send an ACCEPTED (signature error) response to the Acquirer if the Issuer responds with a SUCCESSFUL transaction status RPP will send an actual REJECT response to the Acquirer if Issuer 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

Step	Sender	Receiver	Process
10	Acquirer	Merchant	 Acquirer performs the following: Message Validations Business Validations If all validations are successful: If SUCCESSFUL response is received: Credit to Merchant Display the final payment status to the Customer If UNSUCCESSFUL response is received: Display an error message to the Customer

Pre-Authorization and QR Debit Request Flow



Step	Sender	Receiver	Process
1	Customer	Issuer	Customer logs into Online Banking or Mobile Banking app and initiates a QR code generation
2	Issuer	Customer	Issuer generates a QR code and Customer presents the generated QR to Merchant
3	Merchant	Acquirer	Merchant scans the QR code presented by the Customer
4	Merchant	Acquirer	Merchant initiates QR Debit request
5	Acquirer	RPP	 Acquirer performs the following: Authorize and validate the QR Debit transaction Parse the QR code to extract Application Identifier (AID) Issuer ID Type of Source of Funds Validate Type of Source of Funds against Merchant's Acceptable Source of Funds Any internal validations. If all validations are successful: If AID belongs to PayNet, Issuer will: For On-Us Customer NOT route the request to RPP For Off-Us Customer Send QR Debit request to RPP

Step	Sender	Receiver	Process
			 Transaction type: 880 Start timer If AID does not belongs to PayNet, Issuer will: Send QR Debit request to RPP Transaction type: 881 Start timer
			Notes: Send QR Debit request to RPP Transaction type: 881 Start timer

Step	Sender	Receiver	Process
6	RPP	Issuer	 RPP performs the following: Message Validations Business Validations If any of the Message Validations fails: Return a REJECT response to Acquirer If any of the Business Validations fails: Return a NEGATIVE response to Acquirer If all validations are successful: Generate Pre-authorization ID Send Pre-Authorization message request with the generated Pre-authorization ID
7	Issuer	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

Step	Sender	Receiver	Process
			If all validations are successful: • Pre-authorize Customer account
8	RPP	Acquirer	 RPP performs the following: 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: Send Pre-Authorization message response with Preauthorization ID Notes: If the signature received from Issuer could not be verified: RPP will send an ACCEPTED (signature error) response to the Acquirer if the Issuer responds with a SUCCESSFUL transaction status RPP will send an actual REJECT response to the Acquirer if Issuer 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	Acquirer	Merchant	Acquirer performs the following: • Message Validations

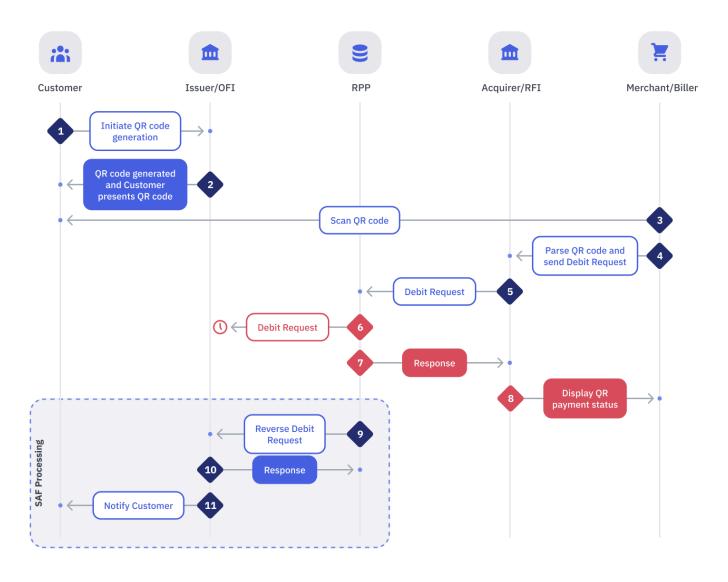
Step	Sender	Receiver	Process
			 Business Validations If all validations are successful: If SUCCESSFUL response is received: Display the final payment status to the Customer If UNSUCCESSFUL response is received: Display an error message to the Customer
10	Merchant	Acquirer	Merchant scans the QR code presented by the Customer
11	Merchant	Acquirer	Merchant initiates QR Debit request
12	Acquirer	RPP	 Acquirer performs the following: Authorize and validate the QR Debit transaction Parse the QR code to extract Application Identifier (AID) Issuer ID Type of Source of Funds Validate Type of Source of Funds against Merchant's Acceptable Source of Funds Any internal validations. If all validations are successful: If AID belongs to PayNet, Issuer will: For On-Us Customer NOT route the request to RPP

Step	Sender	Receiver	Process
			 For Off-Us Customer Send QR Debit request to RPP If AID does not belongs to PayNet, Issuer will: Send QR Debit request to RPP
13	RPP	Issuer	 RPP performs the following: Message Validations Business Validations If any of the Message Validations fails: Return a REJECT response to Acquirer If any of the Business Validations fails: Return a NEGATIVE response to Acquirer If all validations are successful: Send QR Debit message request
14	Issuer	RPP	 RFI performs the following: Message Validations Business Validations Beneficiary Account Validations If any of the Message Validations fails: Send a REJECT response

Step	Sender	Receiver	Process
			 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: Release pre-authorized amount and debit fund from customer account Send QR Debit message response
15	Issuer	Customer	Issuer notifies Customer on QR payment status
16	RPP	Acquirer	 RPP performs the following: 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 Issuer and Acquirer Send QR Debit request message response Notes: If the signature received from Issuer could not be verified:

Step	Sender	Receiver	Process
			 RPP will send an ACCEPTED (signature error) response to the Acquirer if the Issuer responds with a SUCCESSFUL transaction status RPP will send an actual REJECT response to the Acquirer if Issuer 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
17	Acquirer	Merchant	 Acquirer performs the following: Message Validations Business Validations If all validations are successful: If SUCCESSFUL response is received: Credit to Merchant Display the final payment status to the Customer If UNSUCCESSFUL response is received: Display an error message to the Customer

Exception Flows Issuer Failed to Receive Request from RPP



Condition	Actions	Alternatives
RPP sent a request to Issuer, and Issuer did receive the request. However, Issuer response did not reach to RPP	RPP shall:TimeoutSend a Debit Cancellation request	-

Condition	Actions	Alternatives
As no response is received from Issuer after x period of time, RPP eventually timeout	 OFI shall: Display an appropriate error message to the Customer Stop processing 	

See also

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