Notifications

Learn about the events and data models used in Circle Notifications.Suggest Edits

Circle API Notifications are subscriber endpoints that enable you to easily receive notifications every time the status of a resource changes.

Common Considerations

All current and future implementations of notification messages have the following attributes:

Name Type Description Sample clientId UUID Client identifier c60d2d5b-203c-45bb-9f6e-93641d40a599 notificationType String The type of notification payments version int

Current Implementations

This section lists models currently used by existing flows.

Payment Flow

This section introduces the events that may occur after a payment has been created. Each of the events lists the additional fields in a typical notification payload.

Confirmed

Confirmed means that Circle accepts the payment but it is not settled yet. Following structure represents the notifications for confirmed payments.

Confirmed Payment Notification Payload { "clientId": "c60d2d5b-203c-45bb-9f6e-93641d40a599", "notificationType": "payments", "payment": {...} } The payment payload will be aPayment Object .

Failed

A payment might fail due to insufficient balance, invalid credentials, etc. A notification with the following structure is sent for the failed payments.

Failed Payment Notification Payload { "clientId": "c60d2d5b-203c-45bb-9f6e-93641d40a599", "notificationType": "payments", "payment": {...} } The payment payload will be aPayment Object .

Refund

Confirmed refund requests notifications are structured as follows:

Refunded Payment Notification Payload { "clientId": "c60d2d5b-203c-45bb-9f6e-93641d40a599", "notificationType": "payments", "payment": {...} } The payment payload will be aRefund Object .

Cancel

Confirmed cancel requests notifications are structured as follows:

Cancelled Payment Notification Payload { "clientId": "c60d2d5b-203c-45bb-9f6e-93641d40a599", "notificationType": "payments", "payment": {...} } If the payment has not been captured yet, the payment will be "voided" and a notification of the original payment will be received with a status of failed.

If the payment is already captured, the payment will be "refunded" and the payment notification will be aCancel Object .

Payout Flow

Completed

Completed payouts are settled payouts. Therefore, the funds should be available in the destination accounts. Following structure represents the notifications for completed payouts.

Completed Payout Notification Payload { "clientId": "c60d2d5b-203c-45bb-9f6e-93641d40a599", "notificationType": "payouts", "payout": {...} } The payout payload will be aPayout Object .

Failed

Failed payouts notifications are structured as follows:

Failed Payout Notification Payload { "clientId": "c60d2d5b-203c-45bb-9f6e-93641d40a599", "notificationType": "payouts", "payout": {...} } The payout payload will be a[Payout Object](#) .

Bank Account (Wire) Verification Flow

Failed

Failed Bank Accounts (Wires) notifications are structured as follows:

Failed Bank Account (Wire) Notification Payload { "clientId": "c60d2d5b-203c-45bb-9f6e-93641d40a599", "notificationType": "wire", "wire": {...} } The wire payload will be a[Wire Account Object](#) .

Approved

Approved Bank Accounts (Wires) notifications are structured as follows:

Bank Account (Wire) Approval Notification Payload { "clientId": "c60d2d5b-203c-45bb-9f6e-93641d40a599", "notificationType": "wire", "wire": {...} } The wire payload will be a[Wire Account Object](#) .

Transfer Flow

Created

A notification with the structure below is sent on transfer creation.

Created Transfer Notification Payload { "clientId": "c60d2d5b-203c-45bb-9f6e-93641d40a599", "notificationType": "transfers", "transfer": {...} } The transfer payload will be a[Transfer Object](#) .

Failed

Failed transfers notifications are structured as follows:

Failed Transfer Notification Payload { "clientId": "c60d2d5b-203c-45bb-9f6e-93641d40a599", "notificationType": "transfers", "transfer": {...} } The transfer payload will be a[Transfer Object](#) .

Completed

Completed transfers notifications are structured as follows:

Completed Transfer Notification Payload { "clientId": "c60d2d5b-203c-45bb-9f6e-93641d40a599", "notificationType": "transfers", "transfer": {...} } The transfer payload will be a[Transfer Object](#) .

Exchange Conversion Flow

For conversions, there will be a notification sent when the conversion status changes from pending to complete or failed .

Completed

Completed conversions notifications are structured as follows:

Failed Conversion Notification Payload { "clientId": "b1e4e9fe-0bf1-43ad-86c7-3ab993b0051b", "notificationType": "conversions", "version": 1, "customAttributes": { "clientId": "b1e4e9fe-0bf1-43ad-86c7-3ab993b0051b" }, "conversion": { "id": "b8627ae8-732b-4d25-b947-1df8f4007a29", "status": "complete", "source": { "type": "wallet", "id": "0123456789" }, "from": { "amount": "1.00", "currency": "BTC" }, "to": { "amount": "45400.41", "currency": "USD" }, "createDate": "2020-04-10T02:13:30.000Z" } }

Failed

Failed conversions notifications are structured as follows:

JSON { "clientId": "b1e4e9fe-0bf1-43ad-86c7-3ab993b0051b", "notificationType": "conversions", "version": 1, "customAttributes": { "clientId": "b1e4e9fe-0bf1-43ad-86c7-3ab993b0051b" }, "conversion": { "id": "a844411c-09e9-440f-

b52d-663c9bea7040", "source": { "type": "wallet", "id": "1000174786" }, "from": { "amount": "1000000000.00", "currency": "USD" }, "to": { "amount": "264188.438215702990903727", "currency": "ETH" }, "status": "failed", "createDate": "2022-06-02T15:02:34.810Z" } } Updatedabout 2 months ago