



<https://verifone.cloud/docs/portal/administration/notifications>

Updated: 20-Mar-2026

Notifications & Webhooks

Overview

You can use the 'Notifications' sections in Verifone Central to search and filter your organisation's webhooks and email notifications.

The Notification Service allows you to get status updates on certain events/actions you subscribe to, and to automate business processes like order management, accounting, or downloading reports. Data sent in the notifications will be pushed to your email/URL.

Availability

Only users with Merchant Admin, Merchant Cashier or Merchant Supervisor roles can access this section.

Events

Events are the topics a notification would be 'listening' to. The notifications will be triggered as soon as there is an event happening for one of the selected topics.

Transaction Events

Event	Description
TxnAccountVerificationApproved	An account/card verification
TxnAccountVerificationDeclined	
TxnAuthorisationApproved	An authorisation or preauthorisation
TxnAuthorisationDeclined	

Event	Description
TxnCaptureApproved	A capture or completion
TxnCaptureDeclined	
TxnDelayedChargeApproved	A single message sale (auth+capture) related to a preauth chain
TxnDelayedChargeDeclined	
TxnExtendApproved	A preauth extend
TxnExtendDeclined	
TxnPreauthIncrementApproved	An increment for a preauth
TxnPreauthIncrementDeclined	
TxnReauthorisationApproved	A preauth reauth
TxnReauthorisationDeclined	
TxnRefundApproved	A refund
TxnRefundDeclined	
TxnRefundPreviewCancelled	A refund preview cancelled transaction
TxnRefundPreviewCustomerApproved	A refund preview customer approved transaction
TxnSaleApproved	A single message sale (auth+capture)
TxnSaleDeclined	
TxnSaleConfirmed	A confirmation of sale (specific for crypto transactions)
TxnVoidApproved	A void
TxnVoidDeclined	

Checkout Events

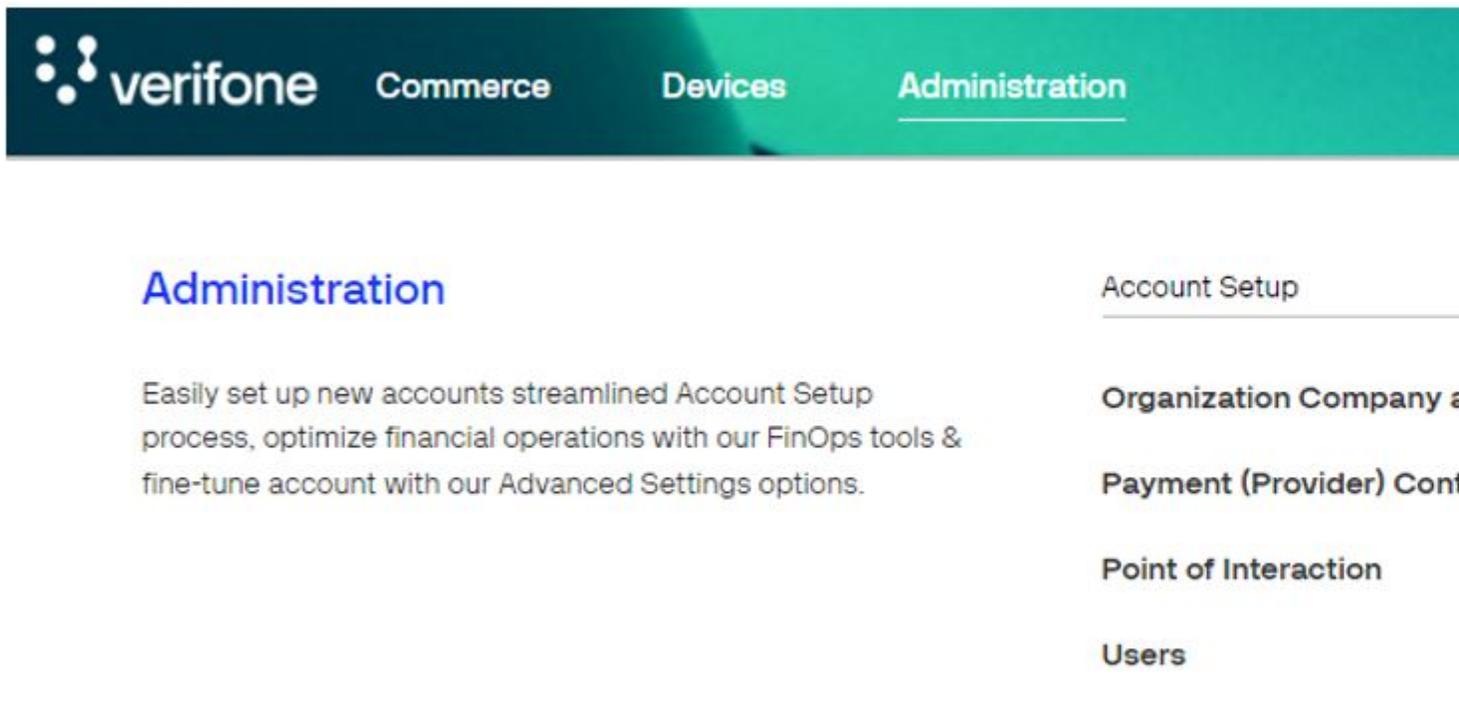
Event	Description
Checkout - Transaction succeeded	An successful checkout Transaction Success
Checkout - Transaction failed	Checkout transaction failed

Event	Description
Checkout - Card token succeeded	Successful card token transaction
Checkout - Card token failed	Failed card token transaction
Checkout - 3DS authentication succeeded	An successful checkout 3DS transaction
Checkout - 3DS authentication failed	A failed checkout 3DS authentication
Checkout - 3DS lookup failed	3DS lookup failed
Checkout - 3DS lookup succeeded	3DS lookup succeeded
Checkout - SMS delivery succeeded	PBL SMS delivery succeeded
Checkout - Email delivery succeeded	PBL Email delivery succeeded
Checkout - SMS delivery failed	PBL SMS delivery failed
Checkout - Email delivery failed	PBL Email delivery failed

Create notifications in Verifone Central

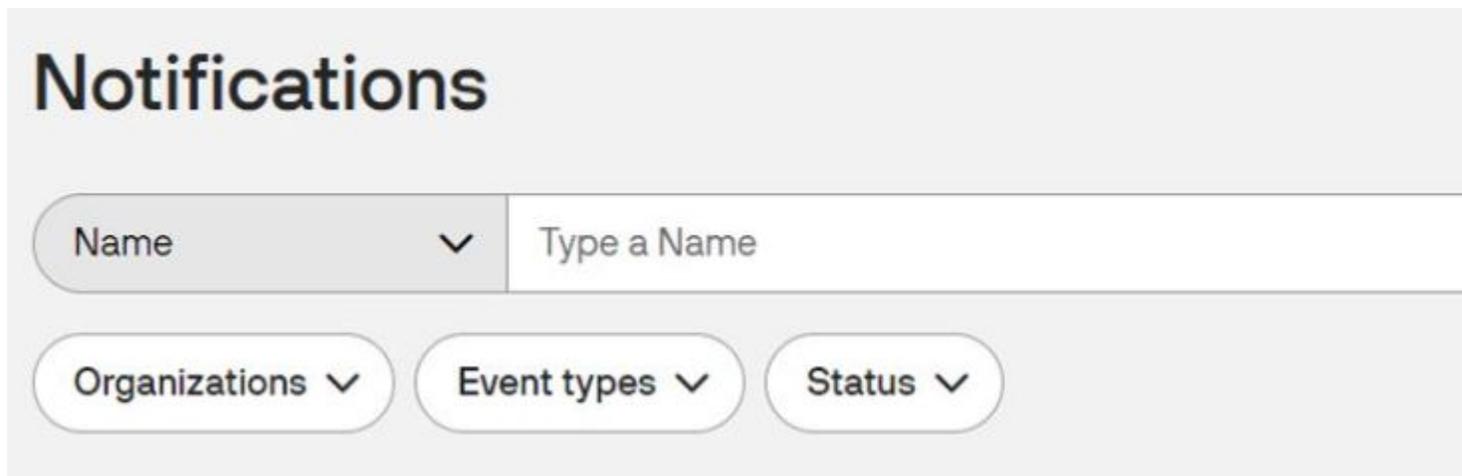
To use the information in the Notifications section in Verifone Central, follow these steps:

1. Log in to your Verifone Central account.
2. Navigate to **Administration** and click on **Notifications**.



3. The *Notifications* page will be displayed. Click on **Create new notification**.

In the **Notifications** page, you can filter the already created notifications by name / email / URL and/or use the **Event type** or the **Status** filters.



The screenshot shows the 'Notifications' page interface. At the top, there is a large heading 'Notifications'. Below it is a search bar with a dropdown menu labeled 'Name' and a text input field containing 'Type a Name'. Underneath the search bar are three filter buttons: 'Organizations', 'Event types', and 'Status', each with a downward arrow indicating a dropdown menu.

4. On the **Create Notification** page, provide the following information:
 - **Notification name** – used to identify the notification configuration in the listing
 - **Organization(s)**
 - By selecting an organization, you apply a scope to the configuration
 - By selecting the lowest level organization, you will receive messages for the selected organization only

Multiple organizations can be selected when creating a notification, if the same notification must be sent to multiple organizations.
 - **Events** – notifications will be triggered as soon as an event takes place for one of the selected transaction status updates (for more details regarding available events check the [Events](#) tables above)
 - **Delivery Method** – specifies how notifications will be delivered. Depending on the selected method, Verifone will send either an email with plain text describing the event or a webhook with the transaction payload. Possible values:
 - **Email** – accepts only one email address



Administration

[< Notifications](#)

Create notification

Notification settings

Notification name

Organization

Event types

 Authorization approved

Delivery method

 Email address

 URL Endpoint

Cancel

- **URL Endpoint** – accepts only one webhook; selecting this option will provide two other possibilities:
 - **Event metadata only** - webhooks with a limited payload

Create notification

Notification settings

Notification name

Test

Organization

- Select organization -

Event types

× Authorization approved

× Authorization declined

Delivery method

Email address

URL Endpoint

[Preview payload](#)

Enter your URL endpoint

Webhook type

Event metadata only

Cancel

- **Full event payload** - webhooks with full content payload (**applicable only for Transaction Events**)



Administration

[< Notifications](#)

Create notification

Notification settings

Notification name

Test

Organization

- Select organization -

Event types

× Authorization approved

× Authorization declined

Delivery method

 Email address URL Endpoint[Preview page](#)

Enter your URL endpoint

Webhook type

Full event payload

×

[Cancel](#)

When a new webhook is added, it should be loaded within 60 seconds. However, updates to existing webhooks can take between 10 to 60 minutes depending on server load.

Notification payload variables

Parameter Name	Type	Format	Email	Full payload	Metadata	Description
eventType	String	—	?	?	?	The event type for which the notification was sent. E.g., TxnSaleDeclined
objectType	String	—	?	?	?	In a transaction event this would be TransactionEvent, and in a Checkout event this would be StandardEvents.
eventId	String	UUID	?	?	?	In transactions events this would be the Transaction ID, and in Checkout events this would be the Checkout ID.
itemId	String	UUID	?	?	?	In transactions events this would be the Transaction ID. The itemId is not applicable to Checkout events.
recordId	String	UUID	?	?	?	In transactions events this would be the Transaction ID, and in Checkout events this would be the Checkout ID.
entityUid	String	UUID	?	?	?	The Verifone assigned organization identifier.
eventDateTime	Datetime	YYYY-MM-DDThh:mm:ss.msZ	?	?	?	The date and time at which the event occurred.
source	String	—	?	?	?	The source of the event information.
content	Object	—	?	?	?	The associated event data. This is optional and if specified will vary according to the event type.
content.id	String	UUID	?	?	?	The Transaction ID.

Parameter Name	Type	Format	Email	Full payload	Metadata	Description
content.currency_code	String	three-letter ISO 4217 alphabetic currency codes	?	?	?	A three-letter alphabetic code that represents the currency used for the transaction.
content.country_code	String	2-letter ISO 3166 alpha-2 country code	?	?	?	A 2-letter ISO 3166 alpha-2 country code representing the consumer's address.
content.created_at	Datetime	YYYY-MM-DDThh:mm:ss.msZ	?	?	?	The date and time the transaction creation.
content.customer_ip	String	32-bit number	?	?	?	A 32-bit number that identifies a host on a TCP/IP network of the consumer.
content.dynamic_descriptor	String	—	?	?	?	A short transaction description that can be included when creating a transaction via the Virtual Terminal, the Checkout API, or the eCom API. This description might be included in the bank statement issued to the consumer by some card issuers.
content.amount	Float	—	?	?	?	The transaction amount.
content.payment_product	String	—	?	?	?	The type of product used for payment. E.g., CARD, KLARA, SWISH, CRYPTO, etc.
content.payment_product_type	String	—	?	?	?	The brand of the payment type used for payment. E.g., VISA, MASTERCARD, AMEX, etc.
content.processor_reference	String	—	?	?	?	Reference identifying the transaction, as provided by the processor.

Parameter Name	Type	Format	Email	Full payload	Metadata	Description
content.transaction_type	String	—	?	?	?	The transaction type, such as SALE, AUTHORIZATION, PREAUTH, etc.
content.transaction_status	String	—	?	?	?	The current status of the transaction. E.g., AUTHORISED, CAPTURED, SETTLED, CANCELLED, etc.
content.reason_code	String	—	?	?	?	A reason code assigned by the acquiring platform; '0000' in case of success.
content.arn	String	—	?	?	?	The acquirer reference number (ARN), generated by the acquirer at the time of clearing for card transactions.
content.authorization_code	String	—	?	?	?	The credit card authorization code represents the five or six numbers generated by the issuing bank.
content.shipping_information	Object	—	?	?	?	An optional object that includes the consumer's shipping information.
content.shipping_information.address	String	—	?	?	?	The shipping (street) address.
content.shipping_information.city	String	—	?	?	?	The shipping city.
content.shipping_information.country	String	A 2-letter ISO 3166 alpha-2 country code	?	?	?	The shipping country.
content.shipping.phone	String	—	?	?	?	The shipping phone number.
content.shipping.postal_code	String	—	?	?	?	The shipping postal code.
content.shipping.state	String	—	?	?	?	The shipping state.
content.user_agent	String	—	?	?	?	The full user agent string of the device the customer used to submit the transaction.

Parameter Name	Type	Format	Email	Full payload	Metadata	Description
content.cvv_present	Boolean	—	?	?	?	True if the card was used with a CVV.
content.rrn	String	—	?	?	?	The payment processor's retrieval reference number.
content.shopper_interaction	String	—	?	?	?	The sales channel that was used to capture the transaction. E.g., ECOMMERCE, MAIL, PHONE, POS. etc.
content.stan	String	—	?	?	?	A number assigned by a transaction initiator (originator) to assist in identifying a transaction uniquely. This property can be used to store the System Trace Audit Number (STAN) as used in the ISO 8583 and AS2805 specifications.
content.card_brand	String	—	?	?	?	Same as the payment product type.
content.merchant_id	String	—	?	?	?	The identifier assigned to the merchant entity under the Payment Provider Contract.
content.merchant_reference	String	—	?	?	?	A reference specified by the merchant to identify the transaction.
content.poi_id	String	—	?	?	?	The Verifone assigned ID to the point of the interaction used for the transaction, where applicable.
content.masked_card_number	String	—	?	?	?	Masked number of the card used for payment.
content.payment_summary.captured_amount	String	—	?	?	?	The amount that was captured out of the total transaction amount.

Parameter Name	Type	Format	Email	Full payload	Metadata	Description
content .threed_authentication	Object	—	?	?	?	3DS authentication information, where applicable. Read our 3-D Secure article for additional information.
content .threed_authentication.eci_flag	String	—	?	?	?	The Electronic Commerce Indicator (ECI).
content .threed_authentication.enrolled	Boolean	—	?	?	?	The payment card's 3DS enrollment status.
content .threed_authentication.cavv	String	—	?	?	?	The Cardholder Authentication Verification Value (CAVV) cryptographic value.
content .threed_authentication.pares_status	String	—	?	?	?	The Payment Authentication Response (PAREs) status.
content .threed_authentication.ds_transaction_id	String	—	?	?	?	A unique transaction identifier assigned by the 3DS server.
content .threed_authentication.threeds_version	String	—	?	?	?	The 3DS version used to authenticate the transaction.

Email payload sample

Subject: New event - Authorization approved

```
array (
  eventId: aefd58f2-7d4d-4afc-b3a8-b841aba5d833,
  eventDateTime : {dateTime={date={year=2021, month=11, day=16},
time={hour=14, minute=36, second=12, nano=921000000}},
offset={totalSeconds=0}},
  recordId : aefd58f2-7d4d-4afc-b3a8-b841aba5d833,
  entityId : 9aea8c9c-d54e-4811-b8d3-6d33aa3a702c,
  eoEntityUid:,
  eventType:Void Approved,
  estateOwner:,
  source:pdsp,
  component:,
  received:
  objectType:TransactionEvent
  content:
  UUID :aefd58f2-7d4d-4afc-b3a8-b841aba5d833,
  TRANSACTIONTYPE : VOID,
```

```
INITIATORTRACEID : 002709,
GATEWAYTRACEID : ,
CREATEDDATETIME : 2021-11-16T14:36:12.921Z,
POI : {},
MERCHANT : {UUID=9aea8c9c-d54e-4811-b8d3-6d33aa3a702c, ID=87654,
LOCALE={COUNTRYCODE=NL}, CONTRACTS=[{MCC=7654, MERCHANTID=87654}]},
AMOUNT : {VALUE=10.03, CURRENCYCODE=EUR},
INSTRUMENT : [{CARDBRAND=VISA, INSTRUMENTTYPE=CARD,
MASKEDCARDNUMBER=411111*****1111}, {INSTRUMENTTYPE=TOKEN}],
OUTCOME:[{ACQUIRERRESPONSECODE=00}, {RESPONSE=SUCCESS,
RESPONSECODE=0000}],
CUSTOMER : ,
CONTEXT:
)
```

Webhook sample

Event metadata only

```
{
  "eventType": "TxnAuthorisationApproved",
  "eventId": "72d2da83-ac4f-11e8-a4d5-c2941f1b9e6a",
  "eventDateTime": "2020-08-07T15:47:37.391+12:00",
  "recordId": "ddb21f1f-a691-4a62-9083-4ab9155b9739"
}
```

Full event payload

```
{
  "eventType": "TxnAuthorisationApproved",
  "objectType": "TransactionEvent",
  "eventId": "5b5f42f6-db9f-4fd8-8396-1527ec621ab8",
  "eventDateTime": "2023-03-02T13:16:44.654Z",
  "recordId": "5b5f42f6-db9f-4fd8-8396-1527ec621ab8",
  "entityUid": "07652580-1037-4901-92f2-74676cb8aa7e",
  "source": "pdsp",
  "content": {
    "id": "5b5f42f6-db9f-4fd8-8396-1527ec621ab8",
    "currency_code": "EUR",
    "country_code": "NL",
    "created_at": "2023-03-02T13:16:44.654Z",
    "customer": "18c4694c-b498-40fa-ab9d-fbe671c0afca",
    "customer_ip": "127.0.0.1",
    "dynamic_descriptor": "Test Transaction",
    "payment_product": "CARD",
    "payment_product_type": "VISA",
    "transaction_type": "SALE",
    "transaction_status": "FAILED",
    "shipping_information": {
      "address": "Singel 250",
      "city": "Amsterdam",
      "country": "NL",
      "phone": "31633344455",
      "postal_code": "1012 AB",
    }
  }
}
```

```
    "state": "Noord-Holland"
  },
  "user_agent": "string",
  "cvv_present": false,
  "card_brand": "VISA",
  "masked_card_number": "430000*****7107",
  "merchant_id": "290010026",
  "merchant_reference": "200001",
  "shopper_interaction": "ecommerce",
  "threed_authentication": {
    "eci_flag": "05",
    "enrolled": "Y",
    "cavv": "MTIzNDU2Nzg5MDEyMzQ1Njc4OTA=",
    "pares_status": "Y",
    "ds_transaction_id": "020100004317fdc3ad24544380000000000000891",
    "threeds_version": "2.1.0"
  },
  "amount": "3.0",
  "payment_summary": {}
}
```

Update notifications in Verifone Central

Any notification can be edited as desired. The below updates can be applied to a notification:

- Update the notification name
- Add/remove organisation(s)
- Add/remove events
- Change the delivery method
- Enable / disable / delete the notification

Notification settings

Notification name
Test

Organization
Verifone_Test

Event types
Authorization approved

Delivery method
 Email address [Preview email](#)
test@test.com
 URL Endpoint

[Discard changes](#) [Save changes](#)

A notification can be deleted only after being disabled.

Notification failures

Notification failures can occur only for webhook [events](#), when the system fails to notify the merchant (e.g. URL endpoint is not reachable or service is down/time out).

The failed notifications can be viewed in the **Administration** > **Notifications** > select the notification > **Notification Failures** section from Verifone Central.

Notification Failures

Webhook signature verification

The authenticity and integrity of the webhook event can be verified by checking the signature provided in the header: x-vfi-jws. This signature is used to validate that Verifone is the sender and that the message has not been tampered with.

This signature is provided as JSON web signature (JWS) using the webhook body as the unencoded payload as described in <https://www.rfc-editor.org/rfc/rfc7797>.

The public keys used to verify the signatures are provided in a JWKS (JSON web key set) file which can be downloaded from the following URLs.

Environment

[Test](#)

[Production](#)

To verify the signature of webhook payload the following steps need to be performed.

1. Ensure that the application has loaded the keys from the JWKS file. This file should be cached locally and not downloaded from verifone on each request.
2. When the request is received, convert the http json body to canonicalized form: <https://www.rfc-editor.org/rfc/rfc8785>.
3. Select the correct key from the JWKS matching the key id from the x-vfi-jws header.
4. Use the x-vfi-jws header and canonicalized body to verify the signature with the selected key.

If the key id is not found in Step 3 then refresh the JWKS file as a new key may have been added.

Webhook signature verification sample

The following java code verifies a signature as described above and has dependencies on the following libraries:

- <https://github.com/erdtman/java-json-canonicalization>
- https://bitbucket.org/b_c/jose4j/src/master/

```
/**
 * Step 1 - Load signing keys via jwks file
 */

String JWKS_URL =
"https://vfl1gtostorage1.blob.core.windows.net/test-webhook-sign-keys/test-webhook-sign-keys.jwks";

// on first startup we need to download the signing keys
// NOTE: this file should be cached locally and not downloaded each time
Path jwksLocalPath = Path.of("./test-webhook-sign-keys.jwks");
if (!Files.exists(jwksLocalPath)) {
    try (InputStream in = new URL(JWKS_URL).openStream()) {
        Files.copy(in, jwksLocalPath, StandardCopyOption.REPLACE_EXISTING);
    }
}

// load keys from file
String jkws = Files.readString(jwksLocalPath);
JsonWebKeySet jsonWebKeySet = new JsonWebKeySet(jkws);

/**
 * Step 2 - Convert webhook json body to canonicalized form
 */

String originalJsonBody = *JSON BODY FROM WEBHOOK*;
JsonCanonicalizer jsonCanonicalizer = new
    JsonCanonicalizer(originalJsonBody);
String canonicalizedJson = jsonCanonicalizer.getEncodedString();

/**
```

```
* Step 3 and 4- Select matching key for x-vfi-jws and validate signature
*/
```

```
JsonWebSignature verifierJws = new JsonWebSignature();

// set contents from x-vfi-jws header
verifierJws.setCompactSerialization(detachedContentJws);

// The canonicalized content is the payload
verifierJws.setPayload(canonicalizedJson);

// Pick the key to use for checking the signature. The key selected
// should have the same key id "kid" as the x-vfi-jws header
VerificationJwkSelector jwkSelector = new VerificationJwkSelector();
JsonWebKey jwkSelected = jwkSelector.select(verifierJws, jsonWebKeySet.getJsonWebKeys());

if (jwkSelected == null) {
    // if key can't be found then refresh signing keys as
    // a new key id may have been added
    try (InputStream in = new URL(JWKS_URL).openStream()) {
        Files.copy(in, jwksLocalPath, StandardCopyOption.REPLACE_EXISTING);
    }
    jkws = Files.readString(jwksLocalPath);
    jsonWebKeySet = new JsonWebKeySet(jkws);
    jwkSelected = jwkSelector.select(verifierJws, jsonWebKeySet.getJsonWebKeys());
}

// set key based on keyid selected from jwks
verifierJws.setKey(jwkSelected.getKey());

// Check the signature
boolean signatureVerified = verifierJws.verifySignature();
```