



ZenPays Documentation

SDK Reference

SDK v0.5.0 · 21 documents

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SDK Reference

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SDK REFERENCE

Client

The `ZenPays` client is the main entry point for the SDK.

Constructor

JAVASCRIPT

```
import { ZenPays } from '@zenxdigitalholdings/zenpays'

const zenpays = new ZenPays(config: ZenPaysConfig)
```

PYTHON

```
from zenpays import ZenPays

zenpays = ZenPays(**config)
```

Configuration

JavaScript

Property	Type	Required	Default	Description
<code>apiKey</code>	<code>string</code>	Yes	-	Your ZenPays API key
<code>baseUrl</code>	<code>string</code>	No	<code>'https://api.zenpayz.com'</code>	API base URL
<code>apiVersion</code>	<code>string</code>	No	<code>'v1'</code>	API version
<code>timeout</code>	<code>number</code>	No	<code>30000</code>	Request timeout in ms
<code>fetch</code>	<code>typeof fetch</code>	No	<code>globalThis.fetch</code>	Custom fetch function

Python

Property	Type	Required	Default	Description
<code>api_key</code>	<code>str</code>	Yes	-	Your ZenPays API key
<code>base_url</code>	<code>str</code>	No	Auto-detected	API base URL
<code>timeout</code>	<code>int</code>	No	<code>30</code>	Request timeout in seconds
<code>secret_salt</code>	<code>str</code>	No	<code>None</code>	HMAC secret for request signing

Factory Function

JAVASCRIPT

```
import { createClient } from '@zenxdigitalholdings/zenpays'

const zenpays = createClient({
  apiKey: 'your-api-key',
})
```

PYTHON

```
from zenpays import ZenPays

# Direct initialization (recommended)
zenpays = ZenPays(api_key="your-api-key")
```

Properties

version

Returns the SDK version.

JAVASCRIPT

```
console.log(zenpays.version) // '0.5.0'
```

PYTHON

```
from zenpays import __version__

print(__version__) # '0.1.1'
```

API Modules

The client provides access to all API modules:

Property	Type	Description
analytics	AnalyticsApi	Reporting and aggregate metrics
auth	AuthApi	API key and session operations
chargebacks	ChargebacksApi	Disputes and evidence submission
checkout	CheckoutApi	Checkout sessions and on-ramp
customers	CustomersApi	Customer management
invoices	InvoicesApi	Invoice creation and delivery
ledger	LedgerApi	Double-entry ledger and reconciliation
merchants	MerchantsApi	Webhooks, bank accounts, IP whitelist
offRamp	OffRampApi	Crypto-to-fiat conversion
paymentLinks	PaymentLinksApi	Shareable payment links

Property	Type	Description
<code>payments</code>	<code>PaymentsApi</code>	Payment intents and transactions
<code>payoutIntents</code>	<i>(object)</i>	Payout-intent shorthands — see below
<code>payouts</code>	<code>PayoutsApi</code>	Payout operations
<code>rampIntents</code>	<code>RampIntentsApi</code>	On/off-ramp intent lifecycle
<code>refunds</code>	<code>RefundsApi</code>	Refund operations
<code>security</code>	<code>SecurityApi</code>	2FA and security settings
<code>settlements</code>	<code>SettlementsApi</code>	Settlement management
<code>subscriptions</code>	<code>SubscriptionsApi</code>	Plans, stored methods, recurring billing
<code>tenantHostnames</code>	<code>TenantHostnamesApi</code>	White-label hostname mapping
<code>vendors</code>	<code>VendorsApi</code>	Vendor accounts, commissions, referrals
<code>wallet</code>	<code>WalletApi</code>	Wallet balance and transactions

Python parity

The Python SDK currently implements `analytics`, `checkout`, `customers`, `merchants`, `payments`, `payouts`, `refunds`, `security`, `settlements`, and `wallet`. The remaining namespaces are JavaScript-only — call the REST endpoints directly from Python.

payoutIntents

`payoutIntents` is a convenience object, not an API class. Each property forwards to the correspondingly named method on `payouts`:

Property	Forwards to
<code>payoutIntents.create</code>	<code>payouts.createPayoutIntent</code>
<code>payoutIntents.confirm</code>	<code>payouts.confirmPayoutIntent</code>
<code>payoutIntents.get</code>	<code>payouts.getPayoutIntent</code>
<code>payoutIntents.list</code>	<code>payouts.listPayoutIntents</code>
<code>payoutIntents.cancel</code>	<code>payouts.cancelPayoutIntent</code>

Webhook Helpers

Signature verification is exported at the package root rather than hung off the client, so it can run in a webhook route with no API key present:

```
import { constructWebhookEvent, verifyWebhookSignature } from '@zenxdigitalholdings/zenpays'
```

See the [signature verification guide](https://docs.zenpayz.com/docs/guides/webhooks/signature-verification) (<https://docs.zenpayz.com/docs/guides/webhooks/signature-verification>).

Example

JAVASCRIPT

```
import { ZenPays } from '@zenxdigitalholdings/zenpays'

const zenpays = new ZenPays({
  apiKey: process.env.ZENPAYS_API_KEY!,
})

// Use any API module
const balance = await zenpays.wallet.getBalance()
const customers = await zenpays.customers.list()
```

PYTHON

```
import os
from zenpays import ZenPays

zenpays = ZenPays(api_key=os.environ["ZENPAYS_API_KEY"])

# Use any API module
balance = zenpays.wallet.get_balance()
customers = zenpays.customers.list()
```

Context Manager

JAVASCRIPT

JavaScript doesn't require explicit resource cleanup.

PYTHON

The Python SDK supports context managers for automatic cleanup:

```
with ZenPays(api_key="your-api-key") as zenpays:
    balance = zenpays.wallet.get_balance()
    # HTTP session automatically closed after the block
```

Error Handling

All API methods throw typed errors:

JAVASCRIPT

```
import {
  AuthenticationError,
  AuthorizationError,
  ConfigurationError,
  NetworkError,
  NotFoundError,
  PaymentError,
  RateLimitError,
  ValidationError,
  ZenPaysError,
} from '@zenxdigitalholdings/zenpays'

try {
  await zenpays.payments.getPaymentIntent('invalid-id')
}
catch (error) {
  if (error instanceof NotFoundError) {
    console.log('Payment intent not found')
  }
  else if (error instanceof AuthenticationError) {
    console.log('Invalid API key')
  }
}
```

PYTHON

```
from zenpays.errors import (
    AuthenticationError,
    PermissionError,
    NetworkError,
    ResourceNotFoundError,
    PaymentError,
    RateLimitError,
    ValidationError,
    ZenPaysError,
)

try:
    zenpays.payments.get_payment_intent("invalid-id")
except ResourceNotFoundError:
    print("Payment intent not found")
except AuthenticationError:
    print("Invalid API key")
```

See the [Error Handling guide](https://docs.zenpayz.com/docs/guides/error-handling) (<https://docs.zenpayz.com/docs/guides/error-handling>) for more details.

SDK REFERENCE

Payments

Create and manage payment intents, confirm payments, and track transactions. Access via `zenpays.payments`.

Payment Intents

createPaymentIntent

JAVASCRIPT

```
const intent = await zenpays.payments.createPaymentIntent({
  amount: 500,
  currency: 'INR',
  customerEmail: 'customer@example.com',
  customerPhone: '+911234567890',
  customerCountry: 'IN',
  description: 'Order #12345',
  returnUrl: 'https://yoursite.com/complete',
})
```

PYTHON

```
intent = zenpays.payments.create_payment_intent({
    "amount": 500,
    "currency": "INR",
    "customerEmail": "customer@example.com",
    "description": "Order #12345",
})
```

getPaymentIntent

```
const intent = await zenpays.payments.getPaymentIntent('pi_xxx')
```

getPublicPaymentIntent

```
const intent = await zenpays.payments.getPublicPaymentIntent('pi_xxx', 'optional_token')
```

confirmPayment

JAVASCRIPT

```
const result = await zenpays.payments.confirmPayment('pi_xxx', {
  customerDetails: {
    name: 'John Doe',
    email: 'john@example.com',
    phone: '+911234567890',
    address: { country: 'IN' },
  },
  paymentMethodDetails: {
    paymentMethod: 'FIAT',
    paymentType: 'UPI',
  },
  confirmSource: 'MERCHANT_SITE',
})
```

PYTHON

```
result = zenpays.payments.confirm_payment("pi_xxx", {
    "customerDetails": {
        "name": "John Doe",
        "email": "john@example.com",
        "address": {"country": "IN"},
    },
    "paymentMethodDetails": {
        "paymentMethod": "FIAT",
        "paymentType": "UPI",
    },
    "confirmSource": "MERCHANT_SITE",
})
```

processPayment

```
const result = await zenpays.payments.processPayment('pi_xxx', confirmRequest)
```

cancelPaymentIntent

```
const intent = await zenpays.payments.cancelPaymentIntent('pi_xxx')
```

updateIntelligence

```
await zenpays.payments.updateIntelligence('pi_xxx', {
  userAgent: navigator.userAgent,
  screenWidth: window.screen.width,
  screenHeight: window.screen.height,
})
```

Transactions

getTransaction

```
const txn = await zenpays.payments.getTransaction('txn_xxx')
```

getTransactionsByIntent

```
const transactions = await zenpays.payments.getTransactionsByIntent('pi_xxx')
```

listTransactions

JAVASCRIPT

```
const { data, total } = await zenpays.payments.listTransactions({  
  status: 'success',  
  from: '2024-01-01',  
  to: '2024-12-31',  
  limit: 50,  
})
```

PYTHON

```
result = zenpays.payments.list_transactions({  
    "status": "success",  
    "from": "2024-01-01",  
    "to": "2024-12-31",  
    "limit": 50,  
})
```

getTransactionAnalytics

```
const analytics = await zenpays.payments.getTransactionAnalytics('30d')
```

exportTransactions

```
const downloadUrl = await zenpays.payments.exportTransactions(  
  { status: 'success', from: '2024-01-01' },  
  'csv' // or 'xlsx'  
)
```

UPI Deep Link (INR Only)

getUpiDeepLink

Extract the `upi://` deep link from a TSP payment page QR code. Used for INR payments to enable direct UPI app opening on mobile.

```
const result = await zenpays.payments.getUpiDeepLink(  
  'pi_xxx',  
  'https://cashier.pcco.lol?orderNo=C123', // payPageUrl from confirm response  
  'C123' // cashierOrderNo (optional)  
)  
  
if (result.success && result.data.upiDeepLink) {  
  window.location.href = result.data.upiDeepLink // Opens UPI app on mobile  
}
```

SDK REFERENCE

Customers

Manage customers, track risk profiles, and view activity. Access via `zenpays.customers`.

Methods

create

JAVASCRIPT

```
const customer = await zenpays.customers.create({
  email: 'john@example.com',
  name: 'John Doe',
  phone: '+911234567890',
  country: 'IN',
})
```

PYTHON

```
customer = zenpays.customers.create({
    "email": "john@example.com",
    "name": "John Doe",
    "phone": "+911234567890",
    "country": "IN",
})
```

get

```
const customer = await zenpays.customers.get('cust_xxx')
```

update

```
const updated = await zenpays.customers.update('cust_xxx', { name: 'Jane Doe' })
```

list

JAVASCRIPT

```
const { data } = await zenpays.customers.list({ page: 1, limit: 20 })
```

PYTHON

```
result = zenpays.customers.list({"page": 1, "limit": 20})
```

search

```
const results = await zenpays.customers.search('john@example.com')
```

getRiskProfile

```
const profile = await zenpays.customers.getRiskProfile('cust_xxx')
```

getActivityHistory

```
const history = await zenpays.customers.getActivityHistory('cust_xxx', {  
  type: 'payment',  
  from: '2024-01-01',  
  to: '2024-12-31',  
  limit: 50,  
})
```

getTopCustomers

```
const top = await zenpays.customers.getTopCustomers({  
  startDate: '2024-01-01',  
  endDate: '2024-12-31',  
  limit: 10,  
})
```

getRecentPayments

```
const payments = await zenpays.customers.getRecentPayments({ limit: 10 })
```

getAnalytics

```
const analytics = await zenpays.customers.getAnalytics({  
  startDate: '2024-01-01',  
  endDate: '2024-12-31',  
})  
// Returns: { totalCustomers, newCustomers, activeCustomers, churnRate }
```

block

```
const blocked = await zenpays.customers.block('cust_xxx', 'Suspected fraud')
```

unlock

```
const unblocked = await zenpays.customers.unlock('cust_xxx')
```

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Refunds

Process refunds for INR transactions -- full, partial, and bulk. Access via `zenpays.refunds`.

Methods

getTemplate

Ask which beneficiary fields this transaction's payment provider actually requires, before you build a refund form. Different providers need different fields, so hard-coding them breaks the moment a transaction is routed elsewhere.

```
const template = await zenpays.refunds.getTemplate('txn_xxx')

if (template.requiredFields.length > 0) {
  // Render a form for exactly the fields this provider needs
}
else {
  // Nothing extra needed – refund directly
  await zenpays.refunds.create({ transactionId: 'txn_xxx' })
}

// Partial refund: pass the amount to preview fees and limits for that amount
const partial = await zenpays.refunds.getTemplate('txn_xxx', 500)
```

Parameter	Type	Required	Description
<code>transactionId</code>	<code>string</code>	Yes	Transaction to be refunded
<code>amount</code>	<code>number</code>	No	Refund amount. Omit for a full refund

Returns a `RefundPreview`:

Field	Type	Description
<code>tspProvider</code>	<code>string</code>	Provider slug, e.g. <code>sulifu_pay</code> , <code>stripe</code>
<code>tspDisplayName</code>	<code>string</code>	Human-readable provider name
<code>requiredFields</code>	<code>RefundFieldDefinition[]</code>	Fields that must be supplied to <code>create</code>
<code>optionalFields</code>	<code>RefundFieldDefinition[]</code>	Fields that may be supplied
<code>oneOfGroups</code>	<code>string[][]</code>	Groups where at least one complete group is required
<code>prefilled</code>	<code>object</code>	Values carried over from the original transaction

preview

Alias for `getTemplate`, taking the amount as an options object instead of a positional argument.

```
const preview = await zenpays.refunds.preview('txn_xxx', { amount: 500 })
```

create

Create a refund. Provide the customer's bank account details so they receive the funds via IMPS.

JAVASCRIPT

```
// Full refund
const refund = await zenpays.refunds.create({
  transactionId: 'txn_xxx',
  reason: 'Customer request',
  beneficiaryEmail: 'customer@example.com',
  beneficiaryAccount: '50100012345678',
  beneficiaryIfsc: 'HDFC0001234',
})

// Partial refund
const partialRefund = await zenpays.refunds.create({
  transactionId: 'txn_xxx',
  amount: 500,
  reason: 'Partial item return',
  beneficiaryEmail: 'customer@example.com',
  beneficiaryAccount: '91020034567890',
  beneficiaryIfsc: 'SBIN0001234',
  beneficiaryName: 'Priya Sharma',
})
```

PYTHON

```
# Full refund
refund = zenpays.refunds.create({
    "transactionId": "txn_xxx",
    "reason": "Customer request",
    "beneficiaryEmail": "customer@example.com",
    "beneficiaryAccount": "50100012345678",
    "beneficiaryIfsc": "HDFC0001234",
})

# Partial refund
partial_refund = zenpays.refunds.create({
    "transactionId": "txn_xxx",
    "amount": 500,
    "reason": "Partial item return",
    "beneficiaryEmail": "customer@example.com",
    "beneficiaryAccount": "91020034567890",
    "beneficiaryIfsc": "SBIN0001234",
    "beneficiaryName": "Priya Sharma",
})
```

Parameters:

Field	Type	Required	Description
transactionId	string	Yes	Transaction to refund
reason	string	Yes	Refund reason
amount	number	No	Partial refund amount (omit for full refund)

Field	Type	Required	Description
beneficiaryEmail	string	Yes	Customer email
beneficiaryAccount	string	Yes	Bank account number
beneficiaryIfsc	string	Yes	IFSC code (e.g. HDFC0001234)
beneficiaryName	string	No	Beneficiary name
beneficiaryMobile	string	No	Mobile number
beneficiaryCity	string	No	City
customerId	string	No	Customer ID (auto-resolved if omitted)

Try it out

Test refund creation interactively using the [API Simulator](#).

bulkUpload

Create multiple refunds in a single call.

JAVASCRIPT

```
const result = await zenpays.refunds.bulkUpload({
  refunds: [
    {
      transactionId: 'txn_aaa',
      reason: 'Customer request',
      beneficiaryEmail: 'john@example.com',
      beneficiaryAccount: '50100012345678',
      beneficiaryIfsc: 'HDFC0001234',
    },
    {
      transactionId: 'txn_bbb',
      amount: 500,
      reason: 'Partial refund',
      beneficiaryEmail: 'jane@example.com',
      beneficiaryAccount: '91020034567890',
      beneficiaryIfsc: 'SBIN0001234',
    },
  ],
})
```

PYTHON

```
result = zenpays.refunds.bulk_upload({
    "refunds": [
        {
            "transactionId": "txn_aaa",
            "reason": "Customer request",
            "beneficiaryEmail": "john@example.com",
            "beneficiaryAccount": "50100012345678",
            "beneficiaryIfsc": "HDFC0001234",
        },
        {
            "transactionId": "txn_bbb",
            "amount": 500,
            "reason": "Partial refund",
            "beneficiaryEmail": "jane@example.com",
            "beneficiaryAccount": "91020034567890",
            "beneficiaryIfsc": "SBIN0001234",
        },
    ],
})
```

get**JAVASCRIPT**

```
const refund = await zenpays.refunds.get('refund_xxx')
```

PYTHON

```
refund = zenpays.refunds.get("refund_xxx")
```

list**JAVASCRIPT**

```
const { data } = await zenpays.refunds.list({
    status: 'completed',
    currency: 'INR',
    limit: 20,
})
```

PYTHON

```
result = zenpays.refunds.list({"status": "completed", "currency": "INR", "limit": 20})
```

cancel

Cancel a refund that is still in `pending_approval` status.

JAVASCRIPT

```
const cancelled = await zenpays.refunds.cancel('refund_xxx')
```

PYTHON

```
cancelled = zenpays.refunds.cancel("refund_xxx")
```

getStats**JAVASCRIPT**

```
const stats = await zenpays.refunds.getStats('2026-01-01', '2026-12-31', 'INR')
```

PYTHON

```
stats = zenpays.refunds.get_stats("2026-01-01", "2026-12-31", "INR")
```

getAnalytics**JAVASCRIPT**

```
const analytics = await zenpays.refunds.getAnalytics({
  startDate: '2026-01-01',
  endDate: '2026-12-31',
  granularity: 'day',
  currency: 'INR',
})
```

PYTHON

```
analytics = zenpays.refunds.get_analytics({
  "startDate": "2026-01-01",
  "endDate": "2026-12-31",
  "granularity": "day",
  "currency": "INR",
})
```

export**JAVASCRIPT**

```
const downloadUrl = await zenpays.refunds.export(
  { status: 'completed', currency: 'INR' },
  'csv'
)
```

PYTHON

```
download_url = zenpays.refunds.export({"status": "completed", "currency": "INR"}, "csv")
```

SDK REFERENCE

Payouts

Process payouts — single, batch, and intent-based flows. Access via `zenpays.payouts`.

Single Payouts

getMethods

```
const methods = await zenpays.payouts.getMethods()
```

preview

JAVASCRIPT

```
const preview = await zenpays.payouts.preview({
  amount: 5000,
  currency: 'INR',
  country: 'IN',
  payoutType: 'bank_transfer',
})
// Returns: { tspProvider, requiredFields, estimatedProcessingTime, fees, totalAmount }
```

PYTHON

```
preview = zenpays.payouts.preview({
    "amount": 5000,
    "currency": "INR",
    "country": "IN",
    "payoutType": "bank_transfer",
})
```

create

JAVASCRIPT

```
const payout = await zenpays.payouts.create({
  amount: 5000,
  currency: 'INR',
  beneficiary: {
    name: 'John Doe',
    accountNumber: '1234567890',
    ifscCode: 'HDFC0001234',
  },
})
```

PYTHON

```
payout = zenpays.payouts.create({
    "amount": 5000,
    "currency": "INR",
    "beneficiary": {
        "name": "John Doe",
        "accountNumber": "1234567890",
        "ifscCode": "HDFC0001234",
    },
})
```

get

```
const payout = await zenpays.payouts.get('po_xxx')
```

list

```
const { data } = await zenpays.payouts.list({ status: 'completed', limit: 20 })
```

listByCustomer

```
const { data } = await zenpays.payouts.listByCustomer('cust_xxx', { limit: 10 })
```

retry

```
const retried = await zenpays.payouts.retry('po_xxx', 'optional_tsp_provider')
```

cancel

```
const cancelled = await zenpays.payouts.cancel('po_xxx', 'No longer needed')
```

getStats

```
const stats = await zenpays.payouts.getStats('2024-01-01', '2024-12-31')
```

getAnalytics

```
const analytics = await zenpays.payouts.getAnalytics('30d')
```

getDashboardAnalytics

```
const dashboard = await zenpays.payouts.getDashboardAnalytics()  
// Returns: PayoutAnalytics & { summary: PayoutStats }
```

export

```
const downloadUrl = await zenpays.payouts.export({ status: 'completed' })
```

Batch Payouts

createBatch

JAVASCRIPT

```
const batch = await zenpays.payouts.createBatch({  
  name: 'April Payroll',  
  payouts: [  
    { amount: 5000, currency: 'INR', beneficiary: { name: 'John', accountNumber: '123' } },  
    { amount: 3000, currency: 'INR', beneficiary: { name: 'Jane', accountNumber: '456' } },  
  ],  
})
```

PYTHON

```
batch = zenpays.payouts.create_batch({  
    "name": "April Payroll",  
    "payouts": [  
        {"amount": 5000, "currency": "INR", "beneficiary": {"name": "John", "accountNumber":  
"123"}},  
        {"amount": 3000, "currency": "INR", "beneficiary": {"name": "Jane", "accountNumber":  
"456"}},  
    ],  
})
```

getBatch

```
const batch = await zenpays.payouts.getBatch('batch_xxx')
```

listBatches

```
const { data } = await zenpays.payouts.listBatches({ status: 'pending', limit: 10 })
```

confirmBatch

```
const confirmed = await zenpays.payouts.confirmBatch('batch_xxx')
```

getBatchPayouts

```
const { data } = await zenpays.payouts.getBatchPayouts('batch_xxx', { limit: 50 })
```

cancelBatch

```
const result = await zenpays.payouts.cancelBatch('batch_xxx')  
// Returns: { success, message }
```

Payout Intents

Intent-based payout flow: create intent → confirm with beneficiary fields → payout executes.

createPayoutIntent

JAVASCRIPT

```
const intent = await zenpays.payouts.createPayoutIntent({  
  amount: 5000,  
  currency: 'INR',  
  country: 'IN',  
  payoutType: 'bank_transfer',  
  description: 'Vendor payment',  
})
```

PYTHON

```
intent = zenpays.payouts.create_payout_intent({  
    "amount": 5000,  
    "currency": "INR",  
    "country": "IN",  
    "payoutType": "bank_transfer",  
    "description": "Vendor payment",  
})
```

confirmPayoutIntent

JAVASCRIPT

```
const confirmed = await zenpays.payouts.confirmPayoutIntent('poi_xxx', {
  beneficiaryName: 'John Doe',
  accountNumber: '1234567890',
  ifscCode: 'HDFC0001234',
})
```

PYTHON

```
confirmed = zenpays.payouts.confirm_payout_intent("poi_xxx", {
    "beneficiaryName": "John Doe",
    "accountNumber": "1234567890",
    "ifscCode": "HDFC0001234",
})
```

getPayoutIntent

```
const intent = await zenpays.payouts.getPayoutIntent('poi_xxx')
```

listPayoutIntents

```
const { data } = await zenpays.payouts.listPayoutIntents({ status: 'pending', limit: 20 })
```

cancelPayoutIntent

```
const cancelled = await zenpays.payouts.cancelPayoutIntent('poi_xxx', 'Changed plans')
```

SDK REFERENCE

Settlements

Manage merchant settlements and bank accounts. Access via `zenpays.settlements`.

Settlements

list

JAVASCRIPT

```
const { data } = await zenpays.settlements.list({
  status: 'completed',
  from: '2024-01-01',
})
```

PYTHON

```
result = zenpays.settlements.list({"status": "completed", "from": "2024-01-01"})
```

get

```
const settlement = await zenpays.settlements.get('stl_xxx')
```

create

JAVASCRIPT

```
const settlement = await zenpays.settlements.create({
  amount: 10000,
  currency: 'INR',
  bankAccountId: 'ba_xxx',
})
```

PYTHON

```
settlement = zenpays.settlements.create({
  "amount": 10000,
  "currency": "INR",
  "bankAccountId": "ba_xxx",
})
```

cancel

```
const cancelled = await zenpays.settlements.cancel('stl_xxx')
```

getStats

```
const stats = await zenpays.settlements.getStats({
  startDate: '2024-01-01',
  endDate: '2024-12-31',
})
// Returns: { totalSettled, pendingAmount, settlementCount, currency }
```

Bank Accounts

listBankAccounts

```
const { bank_accounts } = await zenpays.settlements.listBankAccounts()
```

addBankAccount

```
const { bank_account } = await zenpays.settlements.addBankAccount({
  accountNumber: '1234567890',
  ifscCode: 'HDFC0001234',
  accountHolderName: 'John Doe',
  bankName: 'HDFC Bank',
})
```

updateBankAccount

```
const { bank_account } = await zenpays.settlements.updateBankAccount('ba_xxx', {
  accountHolderName: 'Jane Doe',
})
```

deleteBankAccount

```
await zenpays.settlements.deleteBankAccount('ba_xxx')
```

SDK REFERENCE

Wallet

Manage wallet balances, transactions, ledger entries, commissions, and fees. Access via `zenpays.wallet`.

Balance

getBalance

JAVASCRIPT

```
const balance = await zenpays.wallet.getBalance('INR')  
// Or get all: const balances = await zenpays.wallet.getBalance()
```

PYTHON

```
balance = zenpays.wallet.get_balance("INR")
```

getAllBalances

```
const balances = await zenpays.wallet.getAllBalances()
```

Transactions

listTransactions

JAVASCRIPT

```
const { data } = await zenpays.wallet.listTransactions({  
  type: 'credit',  
  from: '2024-01-01',  
  limit: 50,  
})
```

PYTHON

```
result = zenpays.wallet.list_transactions({"type": "credit", "limit": 50})
```

getTransaction

```
const txn = await zenpays.wallet.getTransaction('wtxn_xxx')
```

Adjustments

listAdjustments

```
const adjustments = await zenpays.wallet.listAdjustments()
```

createAdjustment

```
const adjustment = await zenpays.wallet.createAdjustment({  
  amount: 100,  
  currency: 'INR',  
  type: 'credit',  
  reason: 'Manual adjustment',  
})
```

Ledger

getLedgerEntries

```
const entries = await zenpays.wallet.getLedgerEntries({  
  account: 'merchant_balance',  
  from: '2024-01-01',  
  to: '2024-12-31',  
  limit: 100,  
})
```

getLedgerBalances

```
const balances = await zenpays.wallet.getLedgerBalances()
```

getReserveBalances

```
const reserves = await zenpays.wallet.getReserveBalances()  
// Returns: [{ currency, reserved, available }]
```

getDailyLedgerSummary

```
const summary = await zenpays.wallet.getDailyLedgerSummary('2024-06-15')  
// Returns: { date, totalDebits, totalCredits, netChange, byAccount }
```

getLedgerAnalytics

```
const analytics = await zenpays.wallet.getLedgerAnalytics('30d')
// Returns: { period, totalVolume, trend }
```

Commissions

getCommissions

```
const commissions = await zenpays.wallet.getCommissions({
  from: '2024-01-01',
  to: '2024-12-31',
  type: 'payment',
})
```

getCommissionAnalytics

```
const analytics = await zenpays.wallet.getCommissionAnalytics('30d')
// Returns: { period, totalCommission, byType, trend }
```

Fees

calculateFees

```
const fees = await zenpays.wallet.calculateFees({
  amount: 1000,
  currency: 'INR',
  type: 'payment',
})
```

getFeeConfig

```
const config = await zenpays.wallet.getFeeConfig()
// Returns: { paymentFees, payoutFees, refundFees, currency }
```

SDK REFERENCE

Ledger

Double-entry bookkeeping ledger — track every financial movement with full audit trail.

Methods

getOverview

JAVASCRIPT

```
const overview = await zenpays.ledger.getOverview({ currency: 'INR' })
```

PYTHON

```
overview = zenpays.ledger.get_overview({"currency": "INR"})
```

listEntries

JAVASCRIPT

```
const { data, total, hasMore } = await zenpays.ledger.listEntries({  
  account: 'merchant_balance',  
  from: '2024-01-01',  
  to: '2024-12-31',  
  page: 1,  
  limit: 50,  
})
```

PYTHON

```
result = zenpays.ledger.list_entries({  
  "account": "merchant_balance",  
  "from": "2024-01-01",  
  "to": "2024-12-31",  
  "page": 1,  
  "limit": 50,  
})
```

getBalances

```
const balances = await zenpays.ledger.getBalances({ currency: 'INR' })  
// Returns: { available, pending, reserve, total } per account
```

getAccounts

```
const accounts = await zenpays.ledger.getAccounts({ type: 'asset', status: 'active' })
```

getReserves

```
const reserves = await zenpays.ledger.getReserves({ type: 'rolling', currency: 'INR' })
```

getDailySummary

```
const summaries = await zenpays.ledger.getDailySummary({  
  startDate: '2024-01-01',  
  endDate: '2024-01-31',  
  currency: 'INR',  
})
```

getSummaries

```
const summaries = await zenpays.ledger.getSummaries({ period: 'monthly', currency: 'INR' })
```

getReconciliation

```
const reconciliation = await zenpays.ledger.getReconciliation({  
  startDate: '2024-01-01',  
  endDate: '2024-01-31',  
})
```

SDK REFERENCE

Merchants

Manage merchant profile, settings, API keys, webhooks, bank accounts, and IP whitelist. Access via `zenpays.merchants`.

Profile & Settings

getProfile

```
const profile = await zenpays.merchants.getProfile()
```

updateSettings

```
const settings = await zenpays.merchants.updateSettings({
  timezone: 'Asia/Kolkata',
  currency: 'INR',
  notifications: { emailNotifications: true },
})
```

getLimits

```
const limits = await zenpays.merchants.getLimits()
```

requestLimitIncrease

```
const result = await zenpays.merchants.requestLimitIncrease({
  type: 'daily_payin',
  requestedLimit: 50000000,
  reason: 'Scaling business volume',
})
// Returns: { requestId, status }
```

API Keys

listApiKeys

```
const keys = await zenpays.merchants.listApiKeys()
```

createApiKey

JAVASCRIPT

```
const { apiKey, apiSecret } = await zenpays.merchants.createApiKey({
  description: 'Production key',
  environment: 'live',
})
```

PYTHON

```
result = zenpays.merchants.create_api_key({
    "description": "Production key",
    "environment": "live",
})
```

revokeApiKey

```
await zenpays.merchants.revokeApiKey('key_xxx')
```

Webhooks

listWebhooks

```
const webhooks = await zenpays.merchants.listWebhooks()
```

createWebhook

JAVASCRIPT

```
const webhook = await zenpays.merchants.createWebhook({
  url: 'https://yoursite.com/webhooks/zenpays',
  events: ['payment.success', 'payment.failed', 'refund.created'],
})
```

PYTHON

```
webhook = zenpays.merchants.create_webhook({
    "url": "https://yoursite.com/webhooks/zenpays",
    "events": ["payment.success", "payment.failed", "refund.created"],
})
```

updateWebhook

```
const updated = await zenpays.merchants.updateWebhook('wh_xxx', {
  events: ['payment.success'],
})
```

deleteWebhook

```
await zenpays.merchants.deleteWebhook('wh_xxx')
```

testWebhook

```
const result = await zenpays.merchants.testWebhook('wh_xxx', 'payment.success')
// Returns: { success, statusCode?, error? }
```

getWebhookLogs

```
const logs = await zenpays.merchants.getWebhookLogs('wh_xxx', {
  from: '2024-01-01',
  to: '2024-12-31',
  limit: 50,
})
```

Bank Accounts

listBankAccounts

```
const accounts = await zenpays.merchants.listBankAccounts()
```

addBankAccount

```
const account = await zenpays.merchants.addBankAccount({
  accountNumber: '1234567890',
  ifscCode: 'HDFC0001234',
  accountHolderName: 'Business Pvt Ltd',
  bankName: 'HDFC Bank',
})
```

deleteBankAccount

```
await zenpays.merchants.deleteBankAccount('ba_xxx')
```

setDefaultBankAccount

```
const account = await zenpays.merchants.setDefaultBankAccount('ba_xxx')
```

IP Whitelist

listWhitelistedIPs

```
const ips = await zenpays.merchants.listWhitelistedIPs()
```

addIPToWhitelist

```
const entry = await zenpays.merchants.addIPToWhitelist('203.0.113.50', 'Production server')
```

removeIPFromWhitelist

```
await zenpays.merchants.removeIPFromWhitelist('ip_xxx')
```

SDK REFERENCE

Analytics

Access dashboard metrics, revenue trends, reports, and business insights. Access via `zenpays.analytics`.

Dashboard

getDashboardOverview

JAVASCRIPT

```
const overview = await zenpays.analytics.getDashboardOverview('30d')
```

PYTHON

```
overview = zenpays.analytics.get_dashboard_overview("30d")
```

getBusinessInsights

```
const insights = await zenpays.analytics.getBusinessInsights()
```

Revenue

getRevenueTrends

```
const trends = await zenpays.analytics.getRevenueTrends('30d', 'day') // granularity: 'hour' | 'day' | 'week' | 'month'
```

getRevenueMetrics

```
const metrics = await zenpays.analytics.getRevenueMetrics('30d')
```

Payments

getPaymentMethodBreakdown

```
const breakdown = await zenpays.analytics.getPaymentMethodBreakdown('30d')
```

getPaymentStatusDistribution

```
const distribution = await zenpays.analytics.getPaymentStatusDistribution('30d')
```

getRecentPayments

```
const payments = await zenpays.analytics.getRecentPayments(10)
```

getFailedPaymentsAnalysis

```
const analysis = await zenpays.analytics.getFailedPaymentsAnalysis('30d')
```

Customers

getTopCustomers

```
const customers = await zenpays.analytics.getTopCustomers(10, '30d')
```

getRecentCustomerActivity

```
const activity = await zenpays.analytics.getRecentCustomerActivity(10)
// Returns: [{ customerId, name, lastActivity, type }]
```

Reports

generateReport

JAVASCRIPT

```
const report = await zenpays.analytics.generateReport({
  type: 'transactions',
  format: 'pdf',
  startDate: '2024-01-01',
  endDate: '2024-12-31',
  currency: 'INR',
})
```

PYTHON

```
report = zenpays.analytics.generate_report({
    "type": "transactions",
    "format": "pdf",
    "startDate": "2024-01-01",
    "endDate": "2024-12-31",
    "currency": "INR",
})
```

listReports

```
const { data } = await zenpays.analytics.listReports({ type: 'transactions', limit: 10 })
```

getReport

```
const report = await zenpays.analytics.getReport('rpt_xxx')
```

downloadReport

```
const downloadUrl = await zenpays.analytics.downloadReport('rpt_xxx')
```

Report Schedules**createReportSchedule**

```
const schedule = await zenpays.analytics.createReportSchedule({
    type: 'transactions',
    format: 'csv',
    frequency: 'weekly',
    recipients: ['finance@company.com'],
})
```

listReportSchedules

```
const schedules = await zenpays.analytics.listReportSchedules()
```

updateReportSchedule

```
const updated = await zenpays.analytics.updateReportSchedule('sched_xxx', {  
  frequency: 'monthly',  
})
```

deleteReportSchedule

```
await zenpays.analytics.deleteReportSchedule('sched_xxx')
```

Ramp

SDK REFERENCE / RAMP

On-Ramp (Buy)

Buy crypto with fiat — checkout sessions, provider selection, quotes, rates, and configuration. Access via `zenpays.checkout`.

Widget Integration

`generateWidgetUrl`

Generate a signed widget URL for embedding on-ramp in your site.

JAVASCRIPT

```
const { url } = await zenpays.checkout.generateWidgetUrl({
  mode: 'buy',
  defaultFiat: 'usd',
  defaultCrypto: 'btc_bitcoin',
  defaultAmount: 100,
  networkWallets: 'ethereum:0x123...',
  successRedirectUrl: 'https://yoursite.com/success',
  failureRedirectUrl: 'https://yoursite.com/cancel',
  email: 'user@example.com',
})
// Embed url in iframe or redirect user
```

PYTHON

```
result = zenpays.checkout.generate_widget_url({
    "mode": "buy",
    "defaultFiat": "usd",
    "defaultCrypto": "btc_bitcoin",
    "defaultAmount": 100,
    "networkWallets": "ethereum:0x123...",
    "successRedirectUrl": "https://yoursite.com/success",
    "failureRedirectUrl": "https://yoursite.com/cancel",
})
```

`selectProvider`

Select the optimal provider for an on-ramp transaction.

JAVASCRIPT

```
const result = await zenpays.checkout.selectProvider({
  sessionId: 'cs_xxx',
  amount: 100,
  sourceCurrency: 'USD',
  destinationCurrency: 'USDT',
  country: 'US',
})
```

PYTHON

```
result = zenpays.checkout.select_provider({
    "sessionId": "cs_xxx",
    "amount": 100,
    "sourceCurrency": "USD",
    "destinationCurrency": "USDT",
    "country": "US",
})
```

getProviderWidget

Get the provider widget URL for embedding.

```
const widget = await zenpays.checkout.getProviderWidget('transak', 'cs_xxx')
```

getTransactionStatus

```
const status = await zenpays.checkout.getTransactionStatus('txn_xxx')
```

Checkout Sessions**createSession****JAVASCRIPT**

```
const session = await zenpays.checkout.createSession({
    amount: 100,
    currency: 'USD',
    type: 'on_ramp',
    destinationCurrency: 'USDT',
    customerEmail: 'user@example.com',
})
```

PYTHON

```
session = zenpays.checkout.create_session({
    "amount": 100,
    "currency": "USD",
    "type": "on_ramp",
    "destinationCurrency": "USDT",
})
```

getSession

```
const session = await zenpays.checkout.getSession('cs_xxx')
```

cancelSession

```
const session = await zenpays.checkout.cancelSession('cs_xxx')
```

Ramp Orders

getRampOrder

```
const order = await zenpays.checkout.getRampOrder('ro_xxx')
```

getRampOrderStatus

```
const status = await zenpays.checkout.getRampOrderStatus('ro_xxx')  
// Returns: { orderId, status, updatedAt }
```

updateRampOrder

```
const updated = await zenpays.checkout.updateRampOrder('ro_xxx', {  
  walletAddress: '0x123...',  
  network: 'ethereum',  
})
```

Buy Quotes & Rates

getBuyQuotes

Get buy quotes for fiat-to-crypto conversion.

JAVASCRIPT

```
const quotes = await zenpays.checkout.getBuyQuotes({  
  source: 'USD',  
  destination: 'USDT',  
  amount: 100,  
  paymentMethod: 'card',  
  country: 'US',  
})
```

PYTHON

```
quotes = zenpays.checkout.get_buy_quotes({
    "source": "USD",
    "destination": "USDT",
    "amount": 100,
    "paymentMethod": "card",
    "country": "US",
})
```

getBuyRates

Get exchange rates for multiple crypto destinations.

```
const rates = await zenpays.checkout.getBuyRates({
  source: 'USD',
  destinations: 'USDT,BTC,ETH',
  amount: 100,
})
```

getBuyPrices

Get current crypto prices in fiat.

```
const prices = await zenpays.checkout.getBuyPrices({
  assets: 'BTC,ETH,USDT',
  fiat: 'USD',
  country: 'US',
})
```

createBuyCheckout

Create a buy checkout (fiat to crypto).

JAVASCRIPT

```
const checkout = await zenpays.checkout.createBuyCheckout({
  intentId: 'ri_1710345678000_a1b2c3d4e5f6g7h8',
  cryptoCurrency: 'USDT',
  chain: 'tron',
  fiatCurrency: 'USD',
  fiatAmount: 100,
  cryptoAmount: 98.5,
  rate: 1.0,
  totalFee: 1.5,
})
// Returns: { intentId, paymentIntentId, checkoutUrl, fiatAmount, fiatCurrency, cryptoAmount,
cryptoCurrency, chain, rate, expiresAt }
```

PYTHON

```
checkout = zenpays.checkout.create_buy_checkout({
    "intentId": "ri_1710345678000_a1b2c3d4e5f6g7h8",
    "cryptoCurrency": "USDT",
    "chain": "tron",
    "fiatCurrency": "USD",
    "fiatAmount": 100,
    "cryptoAmount": 98.5,
    "rate": 1.0,
    "totalFee": 1.5,
})
```

Configuration

getConfig

Get ramp provider configuration.

```
const config = await zenpays.checkout.getConfig()
```

getSupportedAssets

Get supported crypto and fiat currencies.

```
const assets = await zenpays.checkout.getSupportedAssets({ type: 'buy', country: 'US' })
```

getPaymentMethods

Get payment methods for a source currency.

```
const methods = await zenpays.checkout.getPaymentMethods('USD', {
    destination: 'USDT',
    country: 'US',
})
```

getDefaults

Get default currencies and amounts per country.

```
const defaults = await zenpays.checkout.getDefaults({ type: 'buy', country: 'US' })
```

Geo & Currency

detectGeo

```
const geo = await zenpays.checkout.detectGeo()  
// Returns: { country, currency, timezone, ... }
```

getBanks

```
const banks = await zenpays.checkout.getBanks('INR')
```

searchBanks

```
const results = await zenpays.checkout.searchBanks('INR', 'HDFC')
```

getCurrencies

```
const currencies = await zenpays.checkout.getCurrencies()
```

SDK REFERENCE / RAMP

Off-Ramp

Sell crypto for fiat (crypto-to-fiat conversion). Access via `zenpays.offRamp`.

Methods

getQuotes

Get sell quotes for a crypto-to-fiat currency pair.

JAVASCRIPT

```
const quotes = await zenpays.offRamp.getQuotes({
  source: 'usdt_tron',
  destination: 'NGN',
  amount: 100,
  paymentMethod: 'bank_transfer',
  country: 'NG',
})
```

PYTHON

```
quotes = zenpays.off_ramp.get_quotes({
    "source": "usdt_tron",
    "destination": "NGN",
    "amount": 100,
    "paymentMethod": "bank_transfer",
    "country": "NG",
})
```

Response

Returns an array of quotes from available providers:

```
[
  {
    "onramp": "zenpay",
    "paymentMethod": "bank_transfer",
    "inputAmount": 100,
    "outputAmount": 157500,
    "rate": 1575,
    "networkFee": 0,
    "transactionFee": 1.5,
    "totalFee": 1.5,
    "recommended": true,
    "minAmount": 5,
    "maxAmount": 10000
  }
]
```

getRates

Get exchange rates for one or more fiat destinations.

```
const rates = await zenpays.offRamp.getRates({
  source: 'usdt_tron',
  destinations: 'NGN,GHS,KES',
  amount: 100,
})
```

createCheckout

Initiate a generic off-ramp checkout session (legacy).

JAVASCRIPT

```
const checkout = await zenpays.offRamp.createCheckout({
  onramp: 'zenpay',
  source: 'usdt_tron',
  destination: 'NGN',
  amount: 100,
  type: 'sell',
  paymentMethod: 'bank_transfer',
  walletAddress: '0x742d35Cc6634C0532925a3b844Bc9e7595f2bD28',
})
```

PYTHON

```
checkout = zenpays.off_ramp.create_checkout({
    "onramp": "zenpay",
    "source": "usdt_tron",
    "destination": "NGN",
    "amount": 100,
    "type": "sell",
    "paymentMethod": "bank_transfer",
    "walletAddress": "0x742d35Cc6634C0532925a3b844Bc9e7595f2bD28",
})
```

createSellCheckout

Phase 1 of the two-phase sell flow — generate a crypto deposit address. Requires a ramp intent.

JAVASCRIPT

```
const sellCheckout = await zenpays.offRamp.createSellCheckout({
  intentId: 'ri_1710345678000_a1b2c3d4e5f6g7h8',
  cryptoCurrency: 'USDT',
  chain: 'tron',
  fiatCurrency: 'USD',
  cryptoAmount: 20,
  fiatAmount: 19.78,
  rate: 0.999,
  totalFee: 0.62,
})
```

PYTHON

```

sell_checkout = zenpays.off_ramp.create_sell_checkout({
    "intentId": "ri_1710345678000_a1b2c3d4e5f6g7h8",
    "cryptoCurrency": "USDT",
    "chain": "tron",
    "fiatCurrency": "USD",
    "cryptoAmount": 20,
    "fiatAmount": 19.78,
    "rate": 0.999,
    "totalFee": 0.62,
})

```

Parameters

Field	Type	Required	Description
intentId	string	Yes	Ramp intent ID
cryptoCurrency	string	Yes	Crypto to sell (e.g. <code>USDT</code>)
chain	string	Yes	Blockchain network (e.g. <code>tron</code> , <code>ethereum</code>)
fiatCurrency	string	Yes	Target fiat currency
cryptoAmount	number	Yes	Amount of crypto to sell
fiatAmount	number	Yes	Expected fiat proceeds
rate	number	Yes	Locked exchange rate
totalFee	number	Yes	Total fees
customerEmail	string	No	Customer email (for KYC, optional if <code>kycVerified</code>)
customerFirstName	string	No	Customer first name
customerLastName	string	No	Customer last name
quoteId	string	No	Quote ID from quotes endpoint

Response

```

{
  "intentId": "ri_1710345678000_a1b2c3d4e5f6g7h8",
  "depositAddress": "TLfMkVBKQSy8i1XN2wDCQxkPaL1Dqz7v98",
  "memo": null,
  "currency": "USDT",
  "chain": "tron",
  "expectedCryptoAmount": 20,
  "fiatAmount": 19.78,
  "fiatCurrency": "USD",
  "rate": 0.999,
  "cryptoDepositId": "d4e5f6a7-b8c9-1234-5678-abcdef012345",
  "expiresAt": "2026-03-15T10:00:00.000Z",
  "provider": "fireblocks"
}

```

getSellPayoutPreview

Phase 2a — discover required beneficiary fields and fees for the target currency/country.

JAVASCRIPT

```
const preview = await zenpays.offRamp.getSellPayoutPreview({
  intentId: 'ri_1710345678000_a1b2c3d4e5f6g7h8',
  fiatCurrency: 'USD',
  country: 'US',
  payoutType: 'bank_transfer',
})
```

PYTHON

```
preview = zenpays.off_ramp.get_sell_payout_preview({
    "intentId": "ri_1710345678000_a1b2c3d4e5f6g7h8",
    "fiatCurrency": "USD",
    "country": "US",
    "payoutType": "bank_transfer",
})
```

Parameters

Field	Type	Required	Description
intentId	string	Yes	Ramp intent ID
fiatCurrency	string	Yes	Target fiat currency
country	string	No	ISO country code
payoutType	string	No	Payout method (default: bank_transfer)

Response

```
{
  "selectedTsp": "zenpay_routing",
  "tspDisplayName": "PayCross",
  "requiredFields": [
    { "fieldName": "receiverFirstName", "label": "First Name", "type": "string", "required": true },
    { "fieldName": "receiverLastName", "label": "Last Name", "type": "string", "required": true },
    { "fieldName": "receiverAccountNumber", "label": "Account Number", "type": "string", "required": true }
  ],
  "optionalFields": [],
  "fiatAmount": 19.78,
  "fiatCurrency": "USD",
  "fees": { "platform": 0.22, "network": 0, "total": 0.22 }
}
```

createSellPayout

Phase 2b — submit beneficiary details to trigger the fiat payout.

JAVASCRIPT

```
const payout = await zenpays.offRamp.createSellPayout({
  intentId: 'ri_1710345678000_a1b2c3d4e5f6g7h8',
  cryptoDepositId: 'd4e5f6a7-b8c9-1234-5678-abcdef012345',
  fiatCurrency: 'USD',
  country: 'US',
  selectedTsp: 'zenpay_routing',
  beneficiaryDetails: {
    receiverFirstName: 'John',
    receiverLastName: 'Doe',
    receiverAccountNumber: '123456789',
    receiverBankName: 'Bank of America',
    receiverCountry: 'US',
  },
})
```

PYTHON

```
payout = zenpays.off_ramp.create_sell_payout({
    "intentId": "ri_1710345678000_a1b2c3d4e5f6g7h8",
    "cryptoDepositId": "d4e5f6a7-b8c9-1234-5678-abcdef012345",
    "fiatCurrency": "USD",
    "country": "US",
    "selectedTsp": "zenpay_routing",
    "beneficiaryDetails": {
        "receiverFirstName": "John",
        "receiverLastName": "Doe",
        "receiverAccountNumber": "123456789",
        "receiverBankName": "Bank of America",
        "receiverCountry": "US",
    },
})
```

Parameters

Field	Type	Required	Description
<code>intentId</code>	string	Yes	Ramp intent ID
<code>cryptoDepositId</code>	string	Yes	Deposit ID from sell checkout response
<code>fiatCurrency</code>	string	Yes	Target fiat currency
<code>payoutType</code>	string	No	Payout method (default: <code>bank_transfer</code>)
<code>country</code>	string	No	ISO country code
<code>selectedTsp</code>	string	No	Provider from payout preview response
<code>beneficiaryDetails</code>	object	Yes	Dynamic fields from payout preview <code>requiredFields</code>

Response

```
{
  "payoutId": "po_abc123def456",
  "status": "processing",
  "amount": 19.78,
  "currency": "USD",
  "intentId": "ri_1710345678000_a1b2c3d4e5f6g7h8"
}
```

getTransaction

```
const txn = await zenpays.offRamp.getTransaction('txn_xxx')
```

createWidgetUrl

Generate a hosted widget URL for off-ramp.

JAVASCRIPT

```
const { url } = await zenpays.offRamp.createWidgetUrl({
  mode: 'sell',
  defaultFiat: 'usd',
  defaultCrypto: 'usdt_tron',
  defaultAmount: 100,
  networkWallets: 'tron:TLfMkVBKQSy...',
  successRedirectUrl: 'https://yoursite.com/success',
  failureRedirectUrl: 'https://yoursite.com/failure',
})
// Embed url in iframe or redirect user
```

PYTHON

```
result = zenpays.off_ramp.create_widget_url({
    "mode": "sell",
    "defaultFiat": "usd",
    "defaultCrypto": "usdt_tron",
    "defaultAmount": 100,
    "networkWallets": "tron:TLfMkVBKQSy...",
    "successRedirectUrl": "https://yoursite.com/success",
    "failureRedirectUrl": "https://yoursite.com/failure",
})
```

Parameters

Field	Type	Required	Description
<code>mode</code>	string	No	<code>buy</code> , <code>sell</code> , or <code>buy,sell</code>
<code>defaultFiat</code>	string	No	Default fiat currency
<code>defaultCrypto</code>	string	No	Default crypto
<code>defaultAmount</code>	number	No	Default amount
<code>networkWallets</code>	string	No	Format: <code>network:address,network:address</code>
<code>successRedirectUrl</code>	string	No	Redirect on success
<code>failureRedirectUrl</code>	string	No	Redirect on failure
<code>email</code>	string	No	Pre-fill customer email
<code>uuid</code>	string	No	User identifier

SDK REFERENCE / RAMP

Ramp Intents

Create and manage ramp intents — merchant-initiated buy/sell requests with embeddable widget URLs.
Access via `zenpays.rampIntents`.

Methods

create

Create a new ramp intent.

Parameters

Field	Type	Required	Description
<code>userId</code>	string	Yes	Unique user identifier from your system — used as the KYC record key
<code>kycVerified</code>	boolean	Yes	When <code>true</code> , ZenPays KYC verification is skipped. When <code>false</code> , the widget may prompt the user for identity verification.
<code>type</code>	string	Yes	<code>buy</code> (fiat → crypto) or <code>sell</code> (crypto → fiat)
<code>wallets</code>	array	Yes	Array of <code>{ network, address }</code> objects (min 1)
<code>fiatCurrency</code>	string	Yes	Fiat currency ISO code (e.g. <code>USD</code> , <code>EUR</code> , <code>INR</code>)
<code>cryptoCurrency</code>	string	No	Pre-selected crypto (e.g. <code>btc_bitcoin</code> , <code>usdt_tron</code>)
<code>amount</code>	number	No	Pre-filled amount in the widget
<code>successUrl</code>	string	No	URL to redirect on success
<code>cancelUrl</code>	string	No	URL to redirect on cancel
<code>customerEmail</code>	string	No	Customer email for pre-filling
<code>metadata</code>	object	No	Custom key-value pairs (returned in webhooks)

JAVASCRIPT

```
const intent = await zenpays.rampIntents.create({
  userId: 'usr_abc123',
  kycVerified: false,
  type: 'buy',
  wallets: [
    { network: 'ethereum', address: '0x742d35Cc6634C0532925a3b844Bc9e7595f2bD28' },
  ],
  fiatCurrency: 'USD',
  cryptoCurrency: 'eth_ethereum',
  amount: 100,
  successUrl: 'https://yoursite.com/success',
  cancelUrl: 'https://yoursite.com/cancel',
})
```

PYTHON

```
intent = zenpays.ramp_intents.create({
    "userId": "usr_abc123",
    "kycVerified": False,
    "type": "buy",
    "wallets": [
        {"network": "ethereum", "address": "0x742d35Cc6634C0532925a3b844Bc9e7595f2bD28"}
    ],
    "fiatCurrency": "USD",
    "cryptoCurrency": "eth_ethereum",
    "amount": 100,
    "successUrl": "https://yoursite.com/success",
    "cancelUrl": "https://yoursite.com/cancel",
})
```

Response

```
{
  "intentId": "ri_1710345678000_a1b2c3d4e5f6g7h8",
  "redirectUrl":
    "https://checkout.zenpayz.com/payments/ramping/widget/ri_1710345678000_a1b2c3d4e5f6g7h8",
  "expiresAt": "2026-03-15T10:00:00.000Z"
}
```

Field	Type	Description
<code>intentId</code>	string	Unique intent identifier (<code>ri_{timestamp}_{hex}</code>)
<code>redirectUrl</code>	string	URL to redirect the customer to the ramp widget
<code>expiresAt</code>	string	ISO 8601 expiry timestamp (1 hour from creation)

list

JAVASCRIPT

```
const { data, meta } = await zenpays.rampIntents.list({
  type: 'buy',
  status: 'active',
  page: 1,
  limit: 20,
})
```

PYTHON

```
result = zenpays.ramp_intents.list({"type": "buy", "status": "active", "limit": 20})
```

Filters

Field	Type	Description
page	number	Page number (default: 1)
limit	number	Items per page (default: 20, max: 100)
status	string	Filter by status: created, active, completed, expired, cancelled
type	string	Filter by direction: buy or sell
search	string	Search by intent ID or customer email

get

Retrieve intent details including widget URL and KYC status.

```
const result = await zenpays.rampIntents.get('ri_xxx')
```

Response

```
{
  "intent": {
    "intentId": "ri_xxx",
    "type": "buy",
    "fiatCurrency": "USD",
    "cryptoCurrency": "eth_ethereum",
    "amount": 100,
    "status": "active",
    "kycStatus": "approved",
    "cancelReason": null,
    "wallets": [{ "network": "ethereum", "address": "0x742d..." }],
    "userId": "usr_abc123",
    "kycVerified": true,
    "successUrl": "https://yoursite.com/success",
    "cancelUrl": "https://yoursite.com/cancel",
    "expiresAt": "2026-03-15T10:00:00.000Z"
  },
  "widgetUrl": "https://widget.onramper.com/...signed_url...",
  "kycRequired": false,
  "kycVerificationUrl": null
}
```

Field	Type	Description
<code>intent</code>	object	Full intent details
<code>intent.status</code>	string	Lifecycle state: <code>created</code> , <code>active</code> , <code>completed</code> , <code>expired</code> , or <code>cancelled</code>
<code>intent.kycStatus</code>	string	KYC sub-state: <code>pending</code> , <code>in_review</code> , <code>approved</code> , <code>declined</code> , or <code>expired</code>
<code>intent.cancelReason</code>	string null	Set when <code>status='cancelled'</code> . <code>kyc_rejected</code> when KYC was declined; <code>kyc_expired</code> for expiry; otherwise a free-form string.
<code>widgetUrl</code>	string null	Signed widget URL for iframe embedding. <code>null</code> if KYC required or expired.
<code>kycRequired</code>	boolean	Whether ZenPays KYC verification is needed
<code>kycVerificationUrl</code>	string null	Verification URL (call <code>initiateKyc</code> if null and KYC is required)

Distinguishing decline reasons

When a customer's KYC is rejected, `intent.status` flips to `'cancelled'` and `intent.cancelReason` becomes `'kyc_rejected'`. You can also drive your UI off `intent.kycStatus === 'declined'` directly — both are set together.

updateStatus

```
const updated = await zenpays.rampIntents.updateStatus('ri_xxx', 'cancelled')
```

initiateKyc

Start ZenPays KYC verification for a ramp intent. Call this when `kycRequired` is `true` and `kycVerificationUrl` is `null`.

JAVASCRIPT

```
const kyc = await zenpays.rampIntents.initiateKyc('ri_xxx', {
  email: 'user@example.com',
  firstName: 'John',
  lastName: 'Doe',
})

if (kyc.kycVerificationUrl) {
  // Redirect user to verification
  window.location.href = kyc.kycVerificationUrl
}
```

PYTHON

```
kyc = zenpays.ramp_intents.initiate_kyc("ri_xxx", {
    "email": "user@example.com",
    "firstName": "John",
    "lastName": "Doe",
})

if kyc["kycVerificationUrl"]:
    print(f"Redirect to: {kyc['kycVerificationUrl']}")
```

Response

```
{
  "kycRequired": true,
  "kycVerificationUrl": "https://verify.zenpayz.com/session/abc123",
  "sessionId": "abc123"
}
```

getKycStatus

Poll the current KYC verification status for a ramp intent. This is the same endpoint the checkout widget polls every 5 seconds while a customer is verifying — call it the same way from your own UI if you embed the widget yourself.

JAVASCRIPT

```
const status = await zenpays.rampIntents.getKycStatus('ri_xxx')

switch (status.kycStatus) {
  case 'approved':
    // KYC passed – proceed with the checkout
    break
  case 'in_review':
    // Identity OK but flagged (often AML) – keep waiting, surface "under review"
    break
  case 'declined':
  case 'expired':
    // Terminal failure – `status.intentStatus` is now 'cancelled' and
    // `status.cancelReason` will tell you why ('kyc_rejected' or 'kyc_expired')
    break
  case 'pending':
  default:
    // Verification not yet completed – keep polling (or call initiateKyc)
    break
}
```

PYTHON

```
status = zenpays.ramp_intents.get_kyc_status("ri_xxx")

if status["kycStatus"] == "approved":
    print("KYC verified – proceed")
elif status["kycStatus"] == "in_review":
    print("Identity OK, flagged for review – keep waiting")
elif status["kycStatus"] in ("declined", "expired"):
    print(f"Terminal: {status['cancelReason']}")
else:
    print("Still pending – keep polling")
```

Response

```
{
  "verified": false,
  "kycStatus": "in_review",
  "intentStatus": "active",
  "cancelReason": null
}
```

Field	Type	Description
<code>verified</code>	boolean	Convenience flag — <code>true</code> when <code>kycStatus === 'approved'</code>
<code>kycStatus</code>	string	<code>pending</code> , <code>in_review</code> , <code>approved</code> , <code>declined</code> , or <code>expired</code>
<code>intentStatus</code>	string	Current ramp intent lifecycle state (<code>created</code> , <code>active</code> , <code>completed</code> , <code>expired</code> , <code>cancelled</code>)
<code>cancelReason</code>	string null	Set when the intent moved to <code>cancelled</code> because of KYC. <code>kyc_rejected</code> for declines, <code>kyc_expired</code> for expiry.

Understanding KYC states

<code>kycStatus</code>	What it means	What to do
<code>pending</code>	Customer hasn't completed the Dedit flow yet	Keep polling. Optionally show a "verification in progress" UI.
<code>in_review</code>	Identity passed but AML or face-match was flagged for manual review	Keep polling. Surface a friendly "under review" message — this can take a few minutes.
<code>approved</code>	KYC and AML both cleared	Proceed with the checkout / surface <code>widgetUrl</code> .
<code>declined</code>	Hard rejection (identity mismatch, document issue, AML rejected)	Stop polling. <code>intentStatus</code> is now <code>cancelled</code> with <code>cancelReason= 'kyc_rejected'</code> . Show a terminal "verification could not be completed" message.
<code>expired</code>	Verification session expired before the customer finished	Stop polling. Same handling as <code>declined</code> . Optionally offer to start a new intent.

Polling cadence

The checkout widget polls every 5 seconds with a hard ceiling of ~5 minutes (60 attempts) before showing a "still confirming your verification" message. If you implement your own polling, mirror that pattern so you don't leave customers on a spinner indefinitely.

SDK REFERENCE

Vendors

Manage vendors/partners, track commissions, referrals, and process payouts. Access via `zenpays.vendors`.

Vendor Management

create

JAVASCRIPT

```
const vendor = await zenpays.vendors.create({
  name: 'Acme Corp',
  email: 'vendor@acme.com',
  phone: '+911234567890',
  country: 'IN',
  commissionRate: 5, // percentage
})
```

PYTHON

```
vendor = zenpays.vendors.create({
  "name": "Acme Corp",
  "email": "vendor@acme.com",
  "phone": "+911234567890",
  "country": "IN",
  "commissionRate": 5,
})
```

list

JAVASCRIPT

```
const { data } = await zenpays.vendors.list({
  search: 'acme',
  status: 'active',
  page: 1,
  limit: 20,
})
```

PYTHON

```
result = zenpays.vendors.list({"status": "active", "limit": 20})
```

getStats

```
const stats = await zenpays.vendors.getStats()
```

get

```
const vendor = await zenpays.vendors.get('vnd_xxx')
```

update

```
const updated = await zenpays.vendors.update('vnd_xxx', { commissionRate: 7.5 })
```

delete

Soft-delete a vendor.

```
await zenpays.vendors.delete('vnd_xxx')
```

updateStatus

```
const updated = await zenpays.vendors.updateStatus('vnd_xxx', 'suspended')  
// status: 'active' | 'inactive' | 'suspended'
```

KYC

updateKyc

```
const updated = await zenpays.vendors.updateKyc('vnd_xxx', {  
  verificationLevel: 'advanced',  
  documents: ['doc_xxx'],  
})
```

Commissions & Referrals

listCommissions

```
const commissions = await zenpays.vendors.listCommissions('vnd_xxx')
```

listReferrals

```
const referrals = await zenpays.vendors.listReferrals('vnd_xxx')
```

createReferral

JAVASCRIPT

```
const referral = await zenpays.vendors.createReferral('vnd_xxx', {
  referredMerchantId: 'mer_xxx',
  referralCode: 'ACME2024',
})
```

PYTHON

```
referral = zenpays.vendors.create_referral("vnd_xxx", {
    "referredMerchantId": "mer_xxx",
    "referralCode": "ACME2024",
})
```

Payouts & Analytics

processPayout

```
const payout = await zenpays.vendors.processPayout('vnd_xxx', {
  amount: 5000,
  currency: 'INR',
})
```

getAnalytics

```
const analytics = await zenpays.vendors.getAnalytics('vnd_xxx')
```

SDK REFERENCE

Chargebacks

Manage chargebacks, submit evidence, and track dispute resolution.

Methods

create

JAVASCRIPT

```
const chargeback = await zenpays.chargebacks.create({
  transactionId: 'txn_xxx',
  amount: 500,
  reason: 'product_not_received',
  description: 'Customer did not receive the product',
})
```

PYTHON

```
chargeback = zenpays.chargebacks.create({
  "transactionId": "txn_xxx",
  "amount": 500,
  "reason": "product_not_received",
  "description": "Customer did not receive the product",
})
```

get

JAVASCRIPT

```
const chargeback = await zenpays.chargebacks.get('chg_xxx')
```

PYTHON

```
chargeback = zenpays.chargebacks.get("chg_xxx")
```

list

JAVASCRIPT

```
const { data } = await zenpays.chargebacks.list({
  status: 'open',
  page: 1,
  limit: 20,
})
```

PYTHON

```
result = zenpays.chargebacks.list({"status": "open", "page": 1, "limit": 20})
data = result["data"]
```

updateStatus

```
const updated = await zenpays.chargebacks.updateStatus('chg_xxx', 'under_review', 'Reviewing evidence')
```

submitEvidence

```
const result = await zenpays.chargebacks.submitEvidence('chg_xxx', {  
  evidenceType: 'delivery_proof',  
  description: 'Delivery confirmation from courier',  
  documentUrl: 'https://example.com/proof.pdf',  
})
```

addMerchantResponse

```
const result = await zenpays.chargebacks.addMerchantResponse('chg_xxx', {  
  response: 'The product was delivered on time. See tracking proof.',  
  documentUrls: ['https://example.com/tracking.pdf'],  
})
```

resolve

```
const resolved = await zenpays.chargebacks.resolve('chg_xxx', {  
  resolution: 'accepted',  
  notes: 'Refund issued to customer',  
})
```

cancel

```
const cancelled = await zenpays.chargebacks.cancel('chg_xxx')
```

getStats

```
const stats = await zenpays.chargebacks.getStats('2024-01-01', '2024-12-31', 'INR')
```

getAnalytics

```
const analytics = await zenpays.chargebacks.getAnalytics('2024-01-01', '2024-12-31', 'month', 'INR')
```

export

```
const downloadUrl = await zenpays.chargebacks.export({ status: 'open' })
```

bulkUpload

```
const result = await zenpays.chargebacks.bulkUpload(csvFile, 'https://yoursite.com/webhook')
```

Billing

SDK REFERENCE / BILLING

Invoices

Create, manage, and send invoices to customers. Access via `zenpays.invoices`.

Methods

create

JAVASCRIPT

```
const invoice = await zenpays.invoices.create({
  customerId: 'cust_xxx',
  items: [
    { description: 'Premium Plan', amount: 999, quantity: 1 },
  ],
  currency: 'INR',
  dueDate: '2024-12-31',
})
```

PYTHON

```
invoice = zenpays.invoices.create({
  "customerId": "cust_xxx",
  "items": [
    {"description": "Premium Plan", "amount": 999, "quantity": 1},
  ],
  "currency": "INR",
  "dueDate": "2024-12-31",
})
```

list

JAVASCRIPT

```
const { data } = await zenpays.invoices.list({
  status: 'pending',
  page: 1,
  limit: 20,
})
```

PYTHON

```
result = zenpays.invoices.list({"status": "pending", "limit": 20})
```

getAnalytics

```
const analytics = await zenpays.invoices.getAnalytics()
```

get

```
const invoice = await zenpays.invoices.get('inv_xxx')
```

update

```
const updated = await zenpays.invoices.update('inv_xxx', {  
  dueDate: '2025-01-31',  
})
```

send

Send an invoice to the customer via email.

```
const result = await zenpays.invoices.send('inv_xxx')
```

cancel

```
const cancelled = await zenpays.invoices.cancel('inv_xxx')
```

generateLink

Generate a shareable payment link for an invoice.

```
const { url } = await zenpays.invoices.generateLink('inv_xxx')  
// Returns: { url: 'https://pay.zenpayz.com/invoice/inv_xxx' }
```

SDK REFERENCE / BILLING

Payment Links

Create and manage shareable payment links. Access via `zenpays.paymentLinks`.

Methods

create

JAVASCRIPT

```
const link = await zenpays.paymentLinks.create({
  name: 'Product Purchase',
  amount: 500,
  currency: 'INR',
  description: 'Payment for premium plan',
  expiresAt: '2024-12-31',
})
```

PYTHON

```
link = zenpays.payment_links.create({
    "name": "Product Purchase",
    "amount": 500,
    "currency": "INR",
    "description": "Payment for premium plan",
})
```

list

JAVASCRIPT

```
const { data } = await zenpays.paymentLinks.list({
  search: 'premium',
  status: 'active',
  page: 1,
  limit: 20,
})
```

PYTHON

```
result = zenpays.payment_links.list({"status": "active", "limit": 20})
```

getAnalytics

```
const analytics = await zenpays.paymentLinks.getAnalytics()
```

get

```
const link = await zenpays.paymentLinks.get('pl_xxx')
```

update

```
const updated = await zenpays.paymentLinks.update('pl_xxx', {  
  name: 'Updated Name',  
  amount: 1000,  
})
```

deactivate

```
const deactivated = await zenpays.paymentLinks.deactivate('pl_xxx')
```

listInvoices

```
const invoices = await zenpays.paymentLinks.listInvoices('pl_xxx')
```

SDK REFERENCE / BILLING

Subscriptions

Recurring billing — plans, stored payment methods, and the subscription lifecycle. Access via `zenpays.subscriptions`.

JavaScript only

The Python SDK does not yet expose a `subscriptions` namespace. Call the REST endpoints directly from Python.

Plans

A plan defines *what* is charged and *how often*. Subscriptions attach a customer to a plan.

createPlan

```
const plan = await zenpays.subscriptions.createPlan({
  name: 'Pro Monthly',
  amount: 2999,
  currency: 'USD',
  interval: 'month',
  description: 'Pro tier, billed monthly',
  intervalCount: 1, // 3 + 'month' would be quarterly
  trialDays: 14,
})
```

Parameter	Type	Required	Description
<code>name</code>	<code>string</code>	Yes	Plan name shown to customers
<code>amount</code>	<code>number</code>	Yes	Amount charged each interval, in the currency's minor unit
<code>currency</code>	<code>string</code>	Yes	ISO 4217 currency code
<code>interval</code>	<code>'day' 'week' 'month' 'year'</code>	Yes	Billing interval
<code>description</code>	<code>string</code>	No	Longer plan description
<code>intervalCount</code>	<code>number</code>	No	Intervals between charges. Defaults to <code>1</code>
<code>trialDays</code>	<code>number</code>	No	Free trial length in days
<code>metadata</code>	<code>Record<string, unknown></code>	No	Arbitrary key/value data

Returns a `SubscriptionPlan`.

listPlans

```
const plans = await zenpays.subscriptions.listPlans()
```

Returns `SubscriptionPlan[]` for the authenticated merchant.

archivePlan

Stops new subscriptions on the plan. Existing subscriptions continue to bill.

```
const plan = await zenpays.subscriptions.archivePlan('plan_xxx')
```

getPublicPlan

Unauthenticated plan details, safe to render on a hosted subscribe page.

```
const plan = await zenpays.subscriptions.getPublicPlan('plan_xxx')
```

Payment methods

To charge a subscription automatically you need a stored payment method. Collect one on the client with a setup token, then store the resulting provider token.

createSetupToken

```
const setupToken = await zenpays.subscriptions.createSetupToken({
  customerId: 'cust_xxx',
  customerEmail: 'customer@example.com',
  currency: 'USD',
})
```

Parameter	Type	Required	Description
customerId	string	Yes	Customer the method will belong to
customerEmail	string	Yes	Customer email
currency	string	No	Currency the method will be charged in
tspProvider	string	No	Force a specific payment provider

storePaymentMethod

```
const method = await zenpays.subscriptions.storePaymentMethod({
  customerId: 'cust_xxx',
  customerEmail: 'customer@example.com',
  tspToken: 'tok_from_provider',
  tspProvider: 'stripe',
  type: 'card',
  last4: '4242',
  brand: 'visa',
  expiryMonth: 12,
  expiryYear: 2028,
})
```

`tspToken` is the provider token representing the instrument the customer entered. Raw card details never reach ZenPays.

listPaymentMethods

```
const methods = await zenpays.subscriptions.listPaymentMethods('cust_xxx')
```

revokePaymentMethod

```
await zenpays.subscriptions.revokePaymentMethod('spm_xxx')
```

Subscription lifecycle

create

```
const subscription = await zenpays.subscriptions.create({
  customerId: 'cust_xxx',
  customerEmail: 'customer@example.com',
  planId: 'plan_xxx',
  storedPaymentMethodId: 'spm_xxx',
})
```

Parameter	Type	Required	Description
<code>customerId</code>	<code>string</code>	Yes	Customer to subscribe
<code>customerEmail</code>	<code>string</code>	Yes	Customer email
<code>planId</code>	<code>string</code>	Yes	Plan to subscribe them to
<code>storedPaymentMethodId</code>	<code>string</code>	No	Method to charge. Omit to require setup first
<code>tspProvider</code>	<code>string</code>	No	Force a specific payment provider
<code>metadata</code>	<code>Record<string, unknown></code>	No	Arbitrary key/value data

list

```
const all = await zenpays.subscriptions.list()
const active = await zenpays.subscriptions.list('active')
```

Optionally filtered by `SubscriptionStatus`.

get

```
const subscription = await zenpays.subscriptions.get('sub_xxx')
```

cancel

Cancels at the end of the current billing period by default.

```
// At period end – the customer keeps access until currentPeriodEnd
await zenpays.subscriptions.cancel('sub_xxx')

// Immediately
await zenpays.subscriptions.cancel('sub_xxx', { immediately: true })
```

pause

```
const subscription = await zenpays.subscriptions.pause('sub_xxx')
```

resume

```
const subscription = await zenpays.subscriptions.resume('sub_xxx')
```

Types

SubscriptionStatus

'trialing' · 'active' · 'past_due' · 'paused' · 'cancelled'

SubscriptionPlan

Field	Type	Description
planId	string	Plan identifier
merchantId	string	Owning merchant
name	string	Plan name
description	string?	Plan description
amount	number	Amount per interval
currency	string	ISO 4217 currency code
interval	BillingInterval	'day' 'week' 'month' 'year'
intervalCount	number	Intervals between charges
trialDays	number	Free trial length in days
status	'active' 'archived'	Plan status
metadata	Record<string, unknown>?	Arbitrary data

Subscription

Field	Type	Description
subscriptionId	string	Subscription identifier
merchantId	string	Owning merchant
customerId	string	Subscribed customer

Field	Type	Description
customerEmail	string	Customer email
planId	string	Plan being billed
status	SubscriptionStatus	Current status
collectionMethod	'auto_charge' 'send_invoice'	How each period is collected
storedPaymentMethodId	string?	Method charged automatically
tspProvider	string?	Payment provider
currentPeriodStart	string	ISO 8601 timestamp
currentPeriodEnd	string	ISO 8601 timestamp
nextBillingAt	string	ISO 8601 timestamp of the next charge
trialEnd	string?	ISO 8601 timestamp the trial ends
cancelAtPeriodEnd	boolean	Whether cancellation is pending
cancelledAt	string?	ISO 8601 timestamp of cancellation
pausedAt	string?	ISO 8601 timestamp of pause

StoredPaymentMethod

Field	Type	Description
storedPaymentMethodId	string	Method identifier
merchantId	string	Owning merchant
customerId	string	Owning customer
customerEmail	string	Customer email
tspProvider	string	Payment provider
type	string	Instrument type, e.g. <code>card</code>
brand	string?	Card brand
expiryMonth	number?	Card expiry month
expiryYear	number?	Card expiry year
isActive	boolean	Whether the method can still be charged
metadata	Record<string, unknown>?	Arbitrary data

SDK REFERENCE

Authentication

Merchant dashboard authentication — login, 2FA, password management, and session handling.

Methods

login

JAVASCRIPT

```
const result = await zenpays.auth.login({
  email: 'merchant@example.com',
  password: 'your-password',
})

if (result.requires2FA) {
  // Prompt for 2FA code
  const verified = await zenpays.auth.verify2FALogin({
    tempToken: result.tempToken,
    code: '123456',
  })
}
```

PYTHON

```
result = zenpays.auth.login({
  "email": "merchant@example.com",
  "password": "your-password",
})

if result.get("requires2FA"):
    verified = zenpays.auth.verify_2fa_login({
        "tempToken": result["tempToken"],
        "code": "123456",
    })
```

verify2FALogin

```
const result = await zenpays.auth.verify2FALogin({
  tempToken: 'temp_xxx',
  code: '123456',
})
```

refreshToken

```
const tokens = await zenpays.auth.refreshToken({
  refreshToken: 'refresh_xxx',
})
```

logout

```
await zenpays.auth.logout()
```

changePassword

```
await zenpays.auth.changePassword({  
  currentPassword: 'old-password',  
  newPassword: 'new-password',  
})
```

forgotPassword

```
await zenpays.auth.forgotPassword({  
  email: 'merchant@example.com',  
})
```

verifyResetToken

```
const result = await zenpays.auth.verifyResetToken({  
  token: 'reset_xxx',  
})
```

resetPassword

```
await zenpays.auth.resetPassword({  
  token: 'reset_xxx',  
  newPassword: 'new-password',  
})
```

SDK REFERENCE

Security

Manage two-factor authentication, security events, and KYC documents. Access via `zenpays.security`.

Two-Factor Authentication

setup2FA

```
const setup = await zenpays.security.setup2FA()  
// Returns: { secret, qrCodeUrl, backupCodes }
```

enable2FA

Enable 2FA after scanning the QR code.

```
const result = await zenpays.security.enable2FA('123456') // TOTP code  
// Returns: { enabled: boolean }
```

verify2FA

```
const result = await zenpays.security.verify2FA({ code: '123456', type: 'totp' })  
// Returns: { verified: boolean }
```

disable2FA

```
await zenpays.security.disable2FA('123456') // current TOTP code to confirm
```

is2FAEnabled

```
const status = await zenpays.security.is2FAEnabled()  
// Returns: { enabled: boolean, setupAt?: string }
```

regenerateBackupCodes

```
const result = await zenpays.security.regenerateBackupCodes()  
// Returns: { backupCodes: string[] }
```

Security Events

listSecurityEvents

JAVASCRIPT

```
const { data } = await zenpays.security.listSecurityEvents({
  severity: 'high',
  from: '2024-01-01',
  limit: 50,
})
```

PYTHON

```
result = zenpays.security.list_security_events({
    "severity": "high",
    "from": "2024-01-01",
    "limit": 50,
})
```

getSecurityEvent

```
const event = await zenpays.security.getSecurityEvent('sec_xxx')
```

KYC Documents

getKycStatus

```
const status = await zenpays.security.getKycStatus()
```

uploadKycDocument

JAVASCRIPT

```
const doc = await zenpays.security.uploadKycDocument({
  type: 'identity_proof',
  file: fileBlob,
  description: 'Passport front page',
})
```

PYTHON

```
doc = zenpays.security.upload_kyc_document({
    "type": "identity_proof",
    "file": file_data,
    "description": "Passport front page",
})
```

getKycDocument

```
const doc = await zenpays.security.getKycDocument('kyc_xxx')
```

downloadKycDocument

```
const downloadUrl = await zenpays.security.downloadKycDocument('kyc_xxx')
```

deleteKycDocument

```
await zenpays.security.deleteKycDocument('kyc_xxx')
```

SDK REFERENCE

Tenant Hostnames

White-label hostname management — map your own domain to your ZenPays merchant account and brand the hosted pages served on it. Access via `zenpays.tenantHostnames`.

JavaScript only

The Python SDK does not yet expose a `tenantHostnames` namespace. Call the REST endpoints directly from Python.

Methods

create

Map a hostname to the authenticated merchant.

```
const hostname = await zenpays.tenantHostnames.create({
  hostname: 'pay.yourbrand.com',
  slug: 'yourbrand',
})
```

Point the hostname at ZenPays with a CNAME before creating the mapping, or the hosted pages will not resolve.

list

```
const hostnames = await zenpays.tenantHostnames.list()
```

resolve

Look up which merchant a hostname belongs to. Useful when your own edge needs to route a request before it reaches ZenPays.

```
const result = await zenpays.tenantHostnames.resolve('pay.yourbrand.com')
// { found: true, merchantId: 'mrc_xxx', slug: 'yourbrand' }
```

Field	Type	Description
<code>found</code>	<code>boolean</code>	Whether the hostname is mapped
<code>merchantId</code>	<code>string?</code>	Owning merchant, when found
<code>slug</code>	<code>string?</code>	Tenant slug, when found

get

```
const hostname = await zenpays.tenantHostnames.get('th_xxx')
```

updateStatus

Enable or disable a hostname without deleting the mapping.

```
await zenpays.tenantHostnames.updateStatus('th_xxx', 'inactive')
```

`status` is `'active'` or `'inactive'`.

updateBranding

Set the logo, colours, and theme used on pages served from this hostname.

```
await zenpays.tenantHostnames.updateBranding('th_xxx', {  
  logoUrl: 'https://cdn.yourbrand.com/logo.svg',  
  primaryColor: '#0f172a',  
  theme: 'light',  
})
```

delete

```
await zenpays.tenantHostnames.delete('th_xxx')
```

Removes the mapping permanently. Pages served on the hostname stop resolving to your merchant immediately — use `updateStatus` if you only want to disable it temporarily.