

Digital Freedom Custom Integration Guide

Professional reference for implementing “Pay with Digital Freedom” using `sovpay.js`

Use the browser result to guide customer experience, but complete order fulfillment only after your merchant-side confirmation flow accepts the payment result.

Overview

This document explains how to integrate the hosted “Pay with Digital Freedom” flow into a custom checkout using the official `sovpay.js` method. The integration maps field IDs from your checkout form into a `sovpay` configuration object, launches the hosted payment flow, and returns the payment result to your `result_handler` function.

To complete a production-ready implementation, configure the browser-side integration, process the returned result appropriately, and keep merchant-side confirmation authoritative before shipping goods, provisioning access, or unlocking content.

What you need

- A Digital Freedom merchant account with your Merchant ID, API Key, and Signature Public Key.
- A checkout form containing fields for `merchant_id`, `amount_usd`, `description`, and `intent_id`.
- A unique `intent_id` value for each payment attempt, up to 36 characters.
- A server-side merchant workflow that confirms and processes completed payments before final fulfillment.

Integration workflow

1. Identify the HTML field IDs in your checkout page that will be mapped into the `sovpay` configuration object.
2. Obtain your API Key and Signature Public Key from your Digital Freedom account under Settings → Account Settings → Merchant Information.
3. Define the `sovpay` object inside a script block in the page head, using your own field IDs.
4. Implement a `result_handler` function to update the user experience based on the payment result.

5. Load the hosted `sovpay.js` script and finalize fulfillment only after your merchant-side confirmation flow accepts the payment.

sovpay configuration reference

Configuration Key	Required	Purpose
<code>api_key</code>	Yes	Your Digital Freedom merchant API Key.
<code>merchant_id_field</code>	Yes	The HTML field ID containing your merchant ID.
<code>price_usd_field</code>	Yes	The HTML field ID containing the total order amount in USD, including shipping and taxes when applicable.
<code>desc_field</code>	Yes	The HTML field ID containing the order description.
<code>sovpay_btn_div</code>	Yes	The div ID where the “Pay with Digital Freedom” button will be rendered.
<code>intent_field</code>	Yes	The HTML field ID containing your unique transaction intent ID.
<code>public_sig_key</code>	Yes	Your Digital Freedom Signature Public Key.
<code>result_handler</code>	Yes	Your callback function for handling the returned payment result.

Implementation examples

Example sovpay configuration

```
const sovpay = {
  api_key: 'YOUR_API_KEY',
  merchant_id_field: 'merchant_id',
  price_usd_field: 'amount_usd',
  desc_field: 'description',
  sovpay_btn_div: 'sovpay_btn',
  intent_field: 'intent_id',
```

```

public_sig_key: `-----BEGIN PUBLIC KEY-----
YOUR_SIGNATURE_PUBLIC_KEY
-----END PUBLIC KEY-----`,
result_handler: function (result) {
  if (result.status === 'PAID') {
    // Update the customer experience.
    // Complete fulfillment only after your merchant-side confirmation flow accepts the payment.
  } else {
    // Show the returned status or error information to the customer.
  }
  console.log(result);
}
};

```

Hosted script include

```
<script src="https://account.digitalfreedom.network/js/sovpay.js?version=3"></script>
```

Example checkout placeholders

```

<input type="hidden" name="merchant_id" id="merchant_id" value="YOUR_MERCHANT_ID" />
<input type="number" name="amount_usd" id="amount_usd" />
<input type="text" name="description" id="description" maxlength="512" />
<input type="text" name="intent_id" id="intent_id" maxlength="36" />
<div id="sovpay_btn" name="sovpay_btn"></div>
<div id="sovpay_iframe" name="sovpay_iframe"></div>

```

Implementation notes

- Keep your merchant ID field hidden and read-only so customers do not need to interact with it.
- amount_usd should contain the total transaction amount in USD, including shipping, taxes, or other applicable charges.
- description should give the customer a clear reminder of what the payment is for.
- intent_id should be unique for each payment attempt to help prevent duplicate submissions.
- Do not host a local copy of sovpay.js. Load the hosted script so you receive current production updates.

- Use `result_handler` to update customer-facing messaging, then rely on your merchant-side confirmation flow before final fulfillment.

Minimal sample page structure

Minimal page skeleton

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Demo - Shop with Digital Freedom</title>
  <script>
    // Define the sovpay object here using your own checkout field IDs.
  </script>
  <script src="https://account.digitalfreedom.network/js/sovpay.js?version=3"></script>
</head>
<body>
  <h2>Checkout</h2>
  <form>
    <!-- Your checkout fields -->
    <div id="sovpay_btn"></div>
    <div id="sovpay_iframe"></div>
  </form>
</body>
</html>
```

Version note: this guide reflects the sovpay.js custom integration method and is intended as a practical implementation reference for merchants and developers.