BCH1 Developer Guide: WalletConnect Integration

This guide explains how to integrate WalletConnect into your Bitcoin Cash (BCH) project with full support for **Mainnet** and **Chipnet** (Testnet), optimized for the **Selene Wallet**.

1. Installation

Install the dedicated BCH WalletConnect connector:

bash

npm install @bch-wc2/web3modal-connector

2. Global Provider Setup

Wrap your application in the Web3ModalConnectorContextProvider. In Next.js, this is usually done in

layout.tsx.

tsx

```
"use client";

import { Web3ModalConnectorContextProvider } from "@bch-wc2/web3modal-connector";

export function WalletProvider({ children }: { children: React.ReactNode }) {
  return (
    <Web3ModalConnectorContextProvider
      config={{
        projectId: "YOUR_WALLETCONNECT_PROJECT_ID", // Get one at cloud.walletconnect.com
        metadata: {
          name: 'Your Project Name',
          description: 'Project Description',
          url: 'https://your-project.com',
          icons: ['https://your-project.com/icon.png']
        }
      }}
    >
```

```
    {children}

  </Web3ModalConnectorContextProvider>

 );

}
```

3. Creating a Connect Button

Use the hook provided by the library to manage the connection state.

tsx

```tsx
"use client";

import { useWeb3ModalConnectorContext } from "@bch-wc2/web3modal-connector";

import { Button } from "@/components/ui/button";

export function ConnectButton() {

  const { address, connect, disconnect, isConnected } =
useWeb3ModalConnectorContext();

  if (isConnected && address) {

    return (

      <div className="flex gap-2">

        <span>{address.slice(0, 6)}...{address.slice(-4)}</span>

        <button onClick={() => disconnect()}>Disconnect</button>

      </div>

    );

  }

  return (

    <button onClick={() => connect()}>Connect Wallet</button>

  );

}
```

4. Supporting Chipnet (Testing)

The connector automatically supports the network your wallet is currently set to. To
use **Chipnet**:

1. **In Selene Wallet**:

- Go to **Settings** -> **Network**.

- Switch from Mainnet to Chipnet.

2. **On your Project**:

- Click **Connect Wallet**.

- The wallet will provide a bchtest: address instead of a bitcoincash: address.

3. **Logic Handling**:

- Use mainnet-js to detect the network based on the address prefix or global config.

- Example: const network = address.startsWith('bchtest:') ? 'chipnet' : 'mainnet';

5. Cleaning Up Stuck Sessions

If users have trouble connecting, clear the WalletConnect cache on mount:

tsx

```
useEffect(() => {
  // Clear localStorage keys starting with 'wc@', 'W3M', or 'wagmi'
  Object.keys(localStorage)
    .filter(key => key.includes('walletconnect') || key.startsWith('wc@'))
    .forEach(key => localStorage.removeItem(key));
}, []);
```