Sign and broadcast at home

Default path: two offline Tails sessions. Optional path after the key exists: sign on hardware wallets you imported the airgapped seed into. Either way, one seed per session, and two independent makers if hardware is in the quorum.

Step 1 — Build the spend (online watch-only)

01 Open watch-only Sparrow. Recheck the receive history so you know this is the right wallet.

02 Send tab: destination, amount, fee. Read every field against a written note.

03 Finalize for signing. Export tx-unsigned.psbt to the data USB.

Step 2 — First signature (Tails session 1, or hardware A)

01 Boot Tails, networking disabled. Launch verified Sparrow. Or unlock hardware wallet A that already holds Seed 1.

02 Restore Seed 1 only (Tails) — or confirm Seed 1 is the only key on that device. Open tx-unsigned.psbt. Confirm fields. Sign.

03 Export tx-partial-s1.psbt. Full shutdown of Tails, or unplug the hardware signer.

Step 3 — Second signature (Tails session 2, or hardware B)

01 Fresh Tails boot, networking disabled. Restore Seed 2 only. Or unlock hardware wallet B from a different vendor.

02 Open tx-partial-s1.psbt. Confirm the first signature and unchanged spend. Sign.

03 Export tx-signed.psbt. Full shutdown.

Step 4 — Broadcast (online computer)

01 Watch-only Sparrow: File → Open Transaction → fully signed file.

02 Confirm fully signed and fields unchanged. Broadcast. Record the txid in 10_Recovery.xlsx.

If you export a key onto hardware

- Generate the seed on airgapped Tails first. Import the finished 24 words. Do not let the device roll its own entropy for this stack.
- Multi-vendor examples (not a ranking): Foundation Passport, Blockstream Jade, BitBox02, SeedSigner / Krux. Official shops only.
- Two keys on two brands. Never three of the same box. A bricked vendor is one lost key — plates and geography still hold the wallet.
- If Sparrow and Electrum disagree about the PSBT, stop. Do not sign. Test with a small amount first.