

Shielded Transfers

You can construct shielded transfers similarly to transparent transfers, except that rather than providing implicit addresses as `thesource` and `target` , you will need to provide a spending key and payment address, respectively.

Before building your transaction, you will want to make sure the [shielded context is synced](#) .

Constructing the Transfer

This example assumes you have a spending key with sufficient shielded balance, a recipient payment address, and the public key of an implicit account with gas funds.

```
use namada_sdk :: args :: TxShieldedTransferData ; use namada_sdk :: masp :: PaymentAddress ; use namada_sdk :: signing :: default_sign;
```

```
let spend_key =
```

```
ExtendedSpendingKey :: from_str (
"zsknam1q0medj45qqqqp9wh90qd9c7d9f7n5xxn89h6dl54k0jfmucwn4yk7nykxwcrjmk4ylkdnlnn3wkkd9f3ul3nyw8hv5wlsfgklzr5ghzk2spzzwm05csvg2s3rn0aq7f9w4z7guul682yrw4hsmren2k2lgdp003uuji"
) . expect ( "Invalid spending key" ); let payment_addr =
```

```
PaymentAddress :: from_str ( "znam1vsz9wsge4u9c0thh38vhn2z9awzfqn4540ue4haxmcxl43srptrgrtlhn6r9cd9razawuakccle" ) . expect ( "Invalid payment address" );
```

```
sdk . shielded_mut () .await. load () .await. expect ( "Could not load shielded context" );
```

```
// specify the transfer arguments let data =
```

```
TxShieldedTransferData { source : spend_key, target : payment_addr, token : sdk . native_token (), amount :
```

```
InputAmount :: from_str ( "5" ) . expect ( "Invalid amount" ), };
```

```
// build the tx let
```

```
mut transfer_tx_builder = sdk . new_shielded_transfer ( vec! [data], vec! [spend_key] ) . wrapper_fee_payer (alice_acct . public_key . clone ());
```

```
let ( mut transfer_tx, signing_data ) = transfer_tx_builder . build ( & sdk ) .await . expect ( "Unable to build transfer tx" );
```

```
// sign the tx sdk . sign ( &mut transfer_tx, & transfer_tx_builder . tx, signing_data, default_sign, () ) .await . expect ( "unable to sign transfer tx" );
```

```
// submit tx to the chain match sdk . submit (transfer_tx, & transfer_tx_builder . tx) .await { Ok (res) =>
```

```
println! ( "Tx result: {:?}" , res), Err (e) =>
```

```
println! ( "Tx error: {:?}" , e) }
```

[Shielded sync Proof of stake transactions](#)