# Secret Monero Bridge Command Line Interface (CLI) version 1.0-beta2

November 14, 2021

The Secret Monero Bridge CLI enables users to make deposits and withdrawals over the Secret Monero Bridge without having to use a web application and the Keplr browser extension wallet.

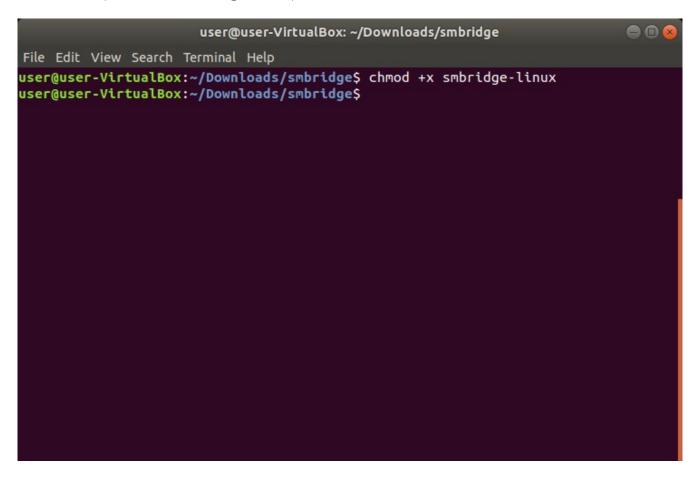
The only dependencies are:

- access to the Secret Network via an operational *secretcli* (version 1.2.0+) instance
- The ability to send an email message (preferably anonymously)

The Secret Monero Bridge CLI can be found at: <a href="https://github.com/maxkoda-cpu/Secret-Monero-Bridge-CLI">https://github.com/maxkoda-cpu/Secret-Monero-Bridge-CLI</a>

The source code and binaries for popular platforms (Linux, Mac, and Windows) can be found at the github repository.

Examples shown in this document are for the Linux platform. The Linux binary needs to be executable (chmod +x smbridge-linux).



### Help

You can get help by typing: ./smbridge-linux -h

```
user@user-VirtualBox: ~/Downloads/smbridge
File Edit View Search Terminal Help
user@user-VirtualBox:~/Downloads/smbridge$ ./smbridge-linux -h
Usage: smbridge-linux <command> [options]
Commands:
  smbridge-linux d Enter a Deposit
  smbridge-linux w Enter a Withdrawal
  smbridge-linux f Lookup current fee
Options:
  -h, --help
                 Show help
                                                                        [boolean]
                                                                        [boolean]
  -v, --version Show version number
user@user-VirtualBox:~/Downloads/smbridge$
```

#### **Bridge Fee:**

You can view the current bridge fee by typing: ./smbridge-linux f

```
user@user-VirtualBox: ~/Downloads/smbridge 

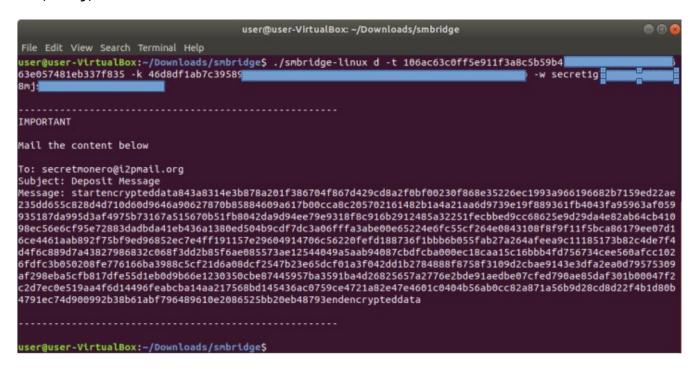
File Edit View Search Terminal Help
user@user-VirtualBox:~/Downloads/smbridge$ ./smbridge-linux f
0.01
user@user-VirtualBox:~/Downloads/smbridge$
```

## Deposit:

You can make a deposit by typing: ./smbridge-linux d -t <txid> -k <txkey> -w <secret\_wallet\_address>

The deposit payment must be sent over the Monero network prior to issuing the deposit command with the Secret Monero Bridge CLI. The Secret Monero Bridge CLI deposit command does not make a Monero deposit payment. It simply provides a proof-of-payment for a prior deposit payment.

Some values presented below have been redacted to preserve privacy. Portions of the Monero txid, txkey, and the secret wallet address have been redacted.



Email information is provided to enable transferring proof-of-payment information. The email proof-of-payment information is provided in an RSA encrypted string (*text between the startencrypteddata....endencrypteddata markers*).

The *Message* text should be included in the body of the email.

The email message should be sent to the email address specified in the *To:* reference.

The Subject is optional.

Once the email is received, an automated process verifies the proof of payment and sXMR is minted (amount of XMR transferred minus bridge fee) and deposited to the secret wallet address specified in the command.

The mailbox receiving these proof-of-payment email messages is on the I2P network. To maintain anonymity, it is recommended that the sender use an anonymous email service to avoid leaving metadata traces.

#### Withdraw:

You can make a withdrawal by typing: ./smbridge-linux w -w <secret\_wallet\_address> -a <amount> -m <monero wallet address>

The withdraw command uses the local *secretcli* to transfer the specified amount of sXMR to the Secret Monero Bridge multi-signature account

Some values presented below have been redacted to preserve privacy. Portions of the Monero wallet address and the secret wallet address have been redacted.

```
cli/test$ ./smbridge-linux w -w secretig
a 0.110 -m 4Akc
   irm amount: 0.11 = 1100000000000 atomic units, current Fee is 0.01 (Y/n)
-- END CMD ECHO - INFORMATIONAL ONLY ***
                                      IMPORTANT -- ACTION REQUIRED TO COMPLETE TRANSACTION
                                      Mail the content below
                                      To: secretmonero@i2pmail.org
                                       Subject: Withdrawal Messag
Message: startencrypteddata744b53b3e61a0356ee2aab6f89cda772c45eabc66381bdde482a35a80b242eef8b88
793823cced0o0aa0e748447f2o97do338d33e5942d441e3d5a9d99413ae83af71424146750e25a447b395ff40425e0f1db87af82f5e0f437dee09bbc4d30e00ead2ec0
 12a09438670c47a59f0513bf886f9887701a7859397f7f1087a6877e3da54f75c8bd7c0a6fce7e8a5ffaeac6b3a8620a5e6f88ff2f0e0b5c75e08bd28b9b8ae1e19
'1f1a1fd6c11444688b9174ad36bdcf5fc95372a12089ff42e3c5768b66a2ddc92cb081ea2faf77db7830831fbc5c8098f8af26fd487b3b98f7aa076ad3abc6ff1bbf94
1eed311b6e77b9b168dd1591ebe425921b175023e0f387ce40a966b797408e0725c1e39102a027d09dcdbc4de862e4191377fbd1cafbb0c56d4b3249d51535113ed605i
c62e0588068301f7adb0a52617b75813ccc6653962e3112cb95ef49b209d67f1150402dd373797ec5cd3668b1f07dd36ce7c05bc180d6f0403dda1bfe0d1b0a8aeac2
614d491c37521Fc23a0d79eeb121c149de6F1902ed161b050592FFaa90F2bF8955eab4de0e4aa1b3774cF26568bbca17e57d0b5bd09a8F44e580F2809230ee9ed7d061:
1920a8821c816f717f173ee30b70519017aeac72b4af65466c4eb377678c433d1377bc5753e605e9cdb87289de9f69224c9c8078f5c0a9547a0c40b02646d6f2a1f41f0
8896d288e31endencrypteddata
                                                     /cli/test$
```

The command will request verification of the amount of the withdrawal (shown in decimal and atomic units).

The command will echo the txhash (from the Secret Network) of the sXMR transfer transaction. This txhash is presented for informational purposes.

Email information is provided to enable transferring proof-of-payment information. The email proof-of-payment information is provided in an RSA encrypted string (*text between the startencrypteddata....endencrypteddata markers*).

The *Message* text should be included in the body of the email.

The email message should be sent to the email address specified in the *To:* reference.

The Subject is optional.

Once the email is received, an automated process verifies the proof of payment and the sXMR is burned and the corresponding amount (amount specified minus bridge fee) of XMR is transferred to the Monero address specified in the command.

The mailbox receiving these proof-of-payment email messages is on the I2P network. To maintain anonymity, it is recommended that the sender use an anonymous email service to avoid leaving metadata traces.