

Instruction Manual for Wanwallet 3.0 GUI

Bitcoin & ERC20 Cross-chain transactions



With 3.0 release, Wanwallet now supports cross-chain transactions with Ethereum, Bitcoin and also ERC20 tokens.

Previous versions of Wanwallet still work as usual after release of Wanwallet 3.0, but new features like Bitcoin & ERC20 cross-chain transactions require Wanwallet 3.0 or later, so we strongly encourage you to update to the latest version of Wanwallet.

For users of previous versions, we strongly recommend <u>backing up keystore files</u> in a safe location before upgrading to Wanwallet 3.0 to prevent any kind of data loss, though the upgrading process will not alter existing keystore files in any way.

This instruction guide is for Wanwallet 3.0 GUI in which users can send BTC & ERC20 tokens to Wanchain and withdraw BTC & ERC20 tokens from Wanchain to Bitcoin and to Ethereum respectively.

ERC20 token used as example in this instruction manual is MKR. Wanwallet 3.0 also supports other ERC20 tokens, please use Wanwallet 3.0 or later, or refer to Wanchain's Explorer – Token page, for complete list of ERC20 tokens supported.

Wanwallet will support more ERC20 tokens in the future. Actually Wanwallet 3.0 or later can support cross-chain transaction of all kinds of ERC20 token, given necessary implementation by Wanchain Foundation for them.

ERC20 token issuing party doesn't have any implementation/adaptation work to do in order to be supported by Wanchain's cross-chain ability.

Users can choose between BTC/ETH/WAN main network and test network in Wanwallet.

This version combines BTC/ETH light wallet and WAN full node wallet.

Terminology

WBTC: Wanchain Bitcoin Crosschain Token, BTC symbol on Wanchain.

<u>WMKR</u>: Wanchain MKR Crosschain Token, MKR symbol on Wanchain. MKR being an ERC20 token on Ethereum

HTLC: Hashed Timelock Contracts.

- 1) Download Wanwallet 3.0 installation file from https://wanchain.org/product
 - * Wanwallet 3.0 supports Linux, Windows, MacOS, please download corresponding installation file for your OS.
 - * Please verify downloaded installation file's data integrity with <u>SHA256 checksum</u> tools. You can find SHA256 checksum value along with Wanwallet's download link on https://wanchain.org/product
- 2) Extract the file, run, and click the "LAUNCH APPLICATION" button below to start the wallet



Click here to start

For Linux: Setup by CLI: sudo dpkg -i WanWalletGui-linux64-3.0.XX.deb

Start by CLI for main network: wanwalletgui

Start by CLI for test network: wanwalletgui --network testnet

Or click Wanwalletgui to start under /usr/local/bin/

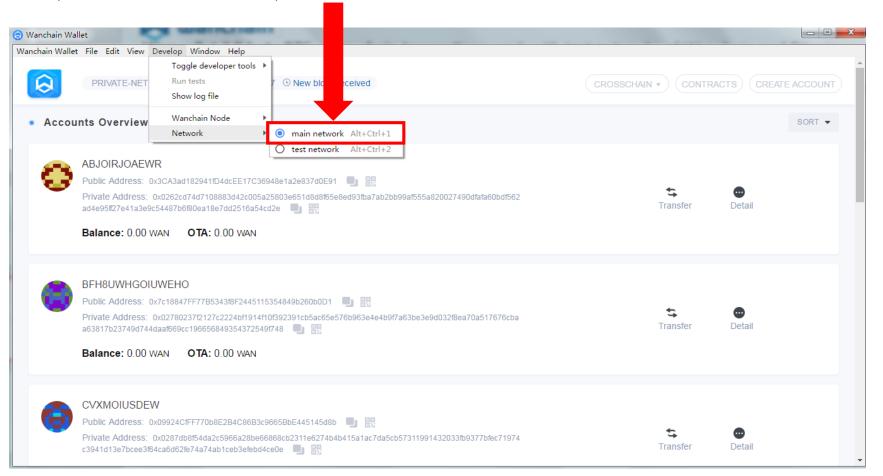
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Wanwallet 3.0 BTC & ERC20 cross-chain transactions work with both main network and test network of Wanchain, Bitcoin and Ethereum.

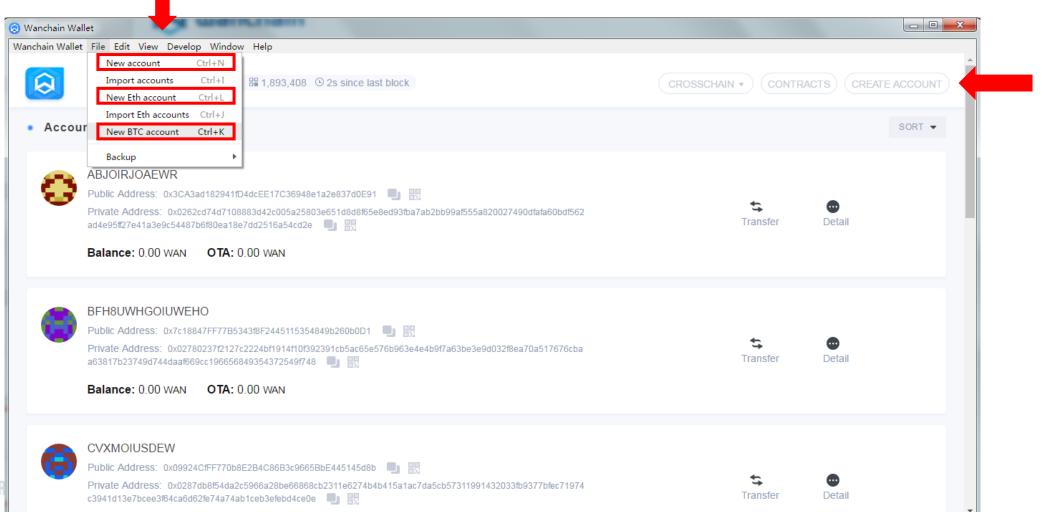
Below you can see the Wanchain accounts overview page (also the default start-up page), you can access it anytime by clicking on the Wanchain logo on the upper-left corner

4) Use the menu option below (Develop--->Network) to switch between main network and test network.



5) These 3 options allow you to create new WAN, ETH account or new BTC address. The "CREATE ACCOUNT" button in the upper-right corner only creates new WAN account.

* <u>All BTC addresses handled in Wanwallet must use same password (same as the password of 1st BTC address created in Wanwallet).</u>

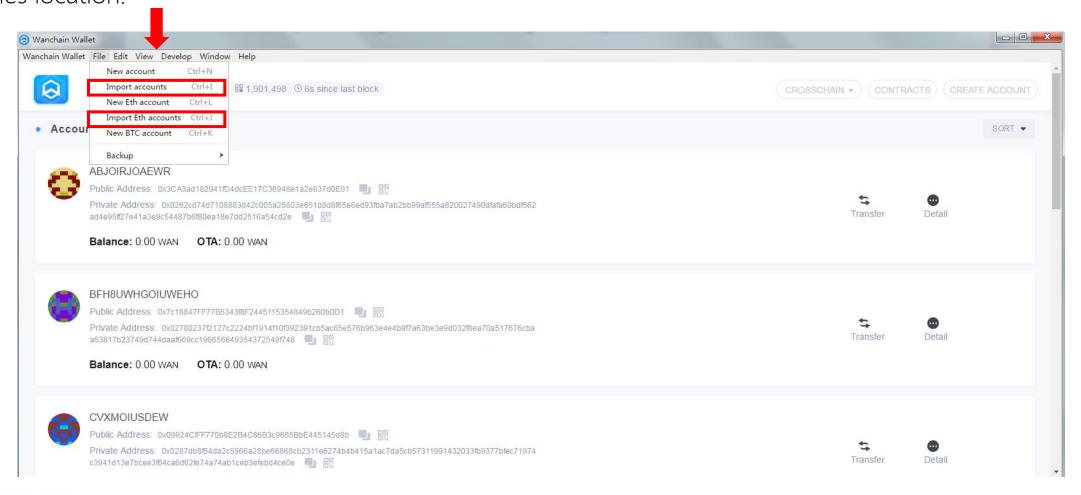


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You can also import existing WAN or ETH accounts using wallet keystore files.

Backup feature opens local keystore files location of WAN or ETH accounts, and BTC wallet database files location.

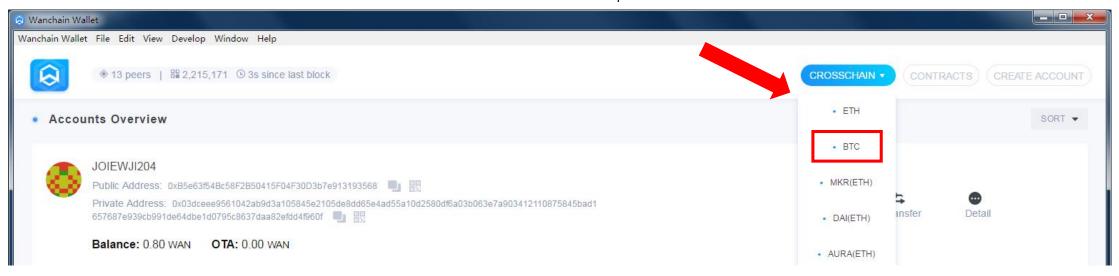




Bitcoin Cross-chain transactions



To access BTC cross-chain transactions, click on "BTC" option under "CROSSCHAIN" button.



A1) Before you make a BTC cross-chain transaction, please check WAN and BTC balance in your account in Wanwallet GUI or with explorer listed below. In testnet, if you don't have any WAN or BTC, you can use testnet faucets to get some.

Main network explorer:
BTC: https://www.blockchain.com/explorer

WAN: https://www.wanscan.org/

Test network explorer:
BTC: https://testnet.blockchain.info

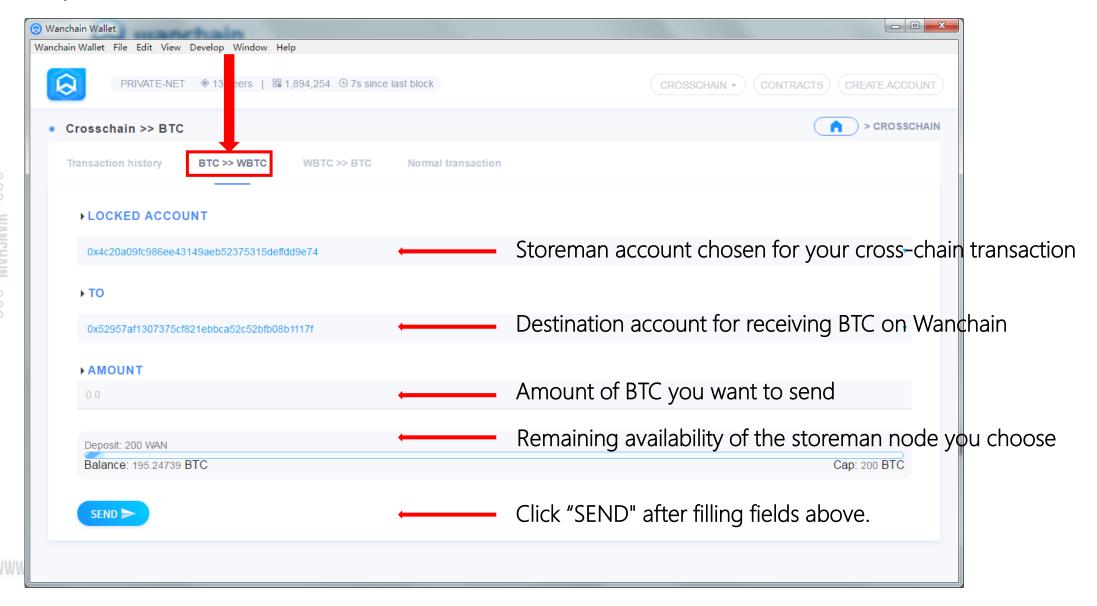
WAN: http://13.58.108.244

BTC testnet faucet:
http://bitcoinfaucet.uo1.net/
https://coinfaucet.eu/en/btc-testnet/

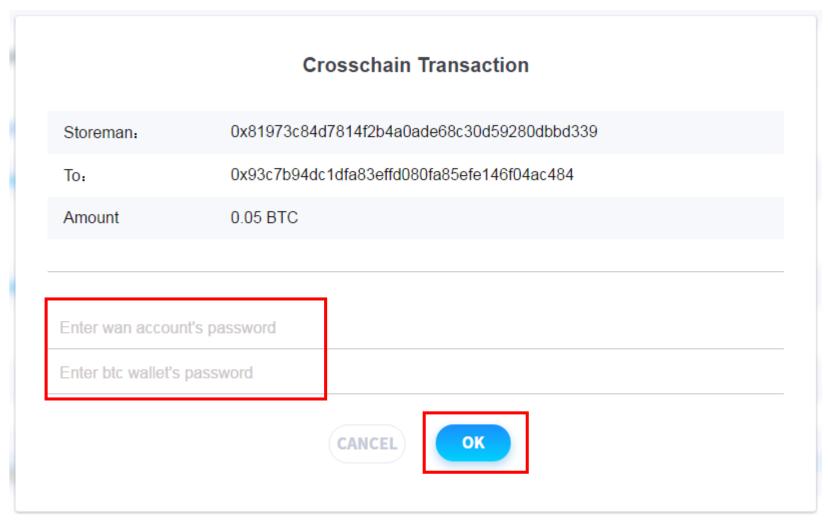
https://testnet.manu.backend.hamburg/faucet

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A2) Click the "BTC >> WBTC" tab below to send BTC to Wanchain.

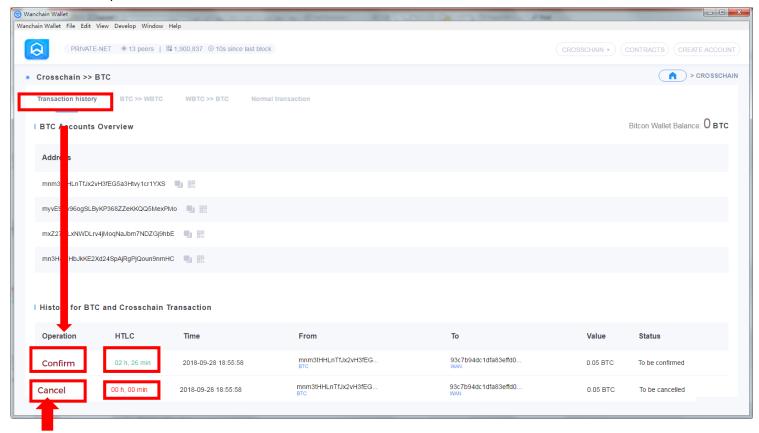


Enter your WAN account's password and your BTC wallet's password, then press "OK" button to send the transaction.





A3) In the "Transaction history" tab, click on the "Confirm" button to finalize the cross-chain transaction process once it turned red.



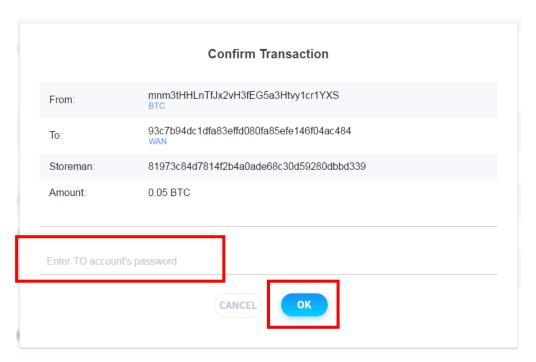
If you do not confirm before the HTLC countdown ends, it means you choose to cancel the transaction and refund the BTC from the locked account. The "Confirm" button changes to "Cancel" and you can click it to cancel the transaction once it turned red

Once the "Confirm" button turned red, click it to access "Confirm Transaction" page.

I History for BTC and Crosschain Transaction

	Operation	HTLC	Time	From	То	Value	Status
С	Confirm	02 h, 23 min	2018-09-28 18:55:58	mnm3tHHLnTfJx2vH3fEG	93c7b94dc1dfa83effd0 wan	0.05 BTC	To be confirmed

Enter the password then click "OK" button to finalize transaction

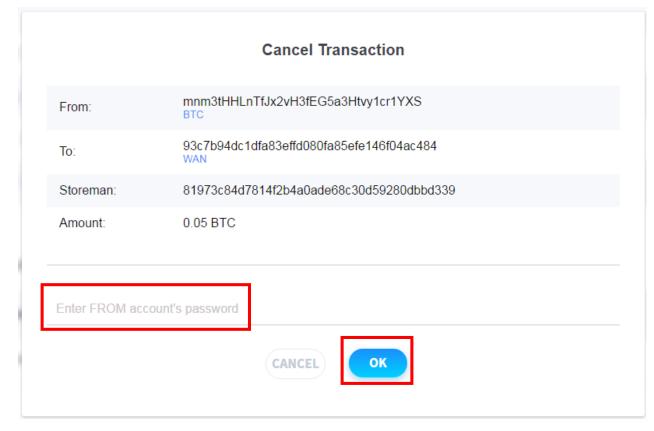


Once the "Cancel" button turned red (after HTLC countdown ends), click it to access "Cancel Transaction" page.

I History for BTC and Crosschain Transaction

Operation	HTLC	Time	From	То	Value	Status
Cancel	00 h, 00 min	2018-09-28 18:55:58	mnm3tHHLnTfJx2vH3fEG	93c7b94dc1dfa83effd0 wan	0.05 BTC	To be cancelled

Enter the password then click "OK" button to cancel the transaction



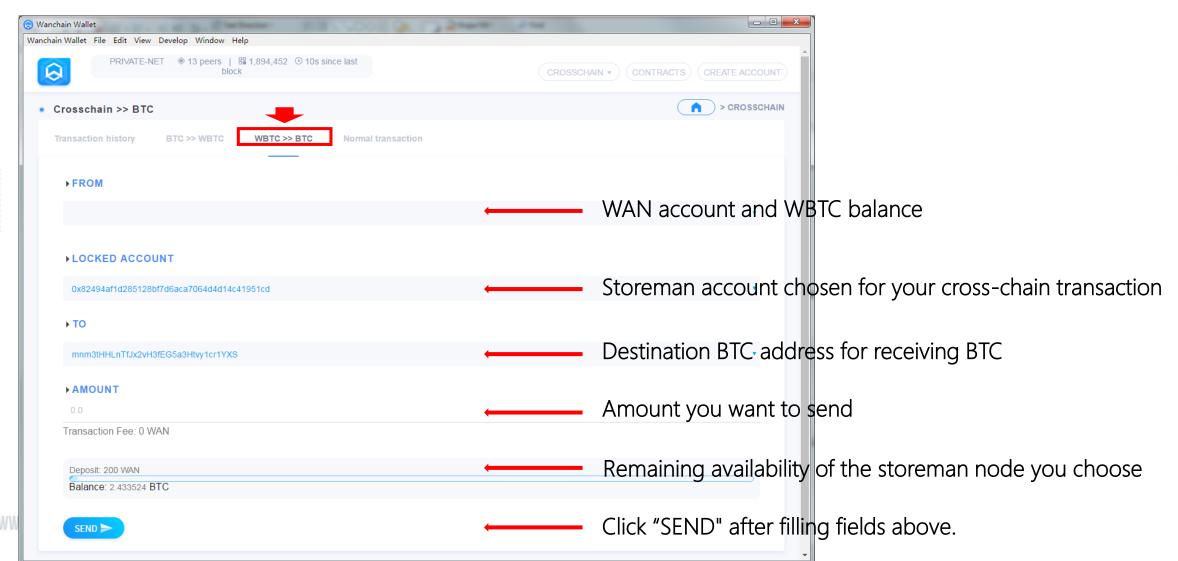
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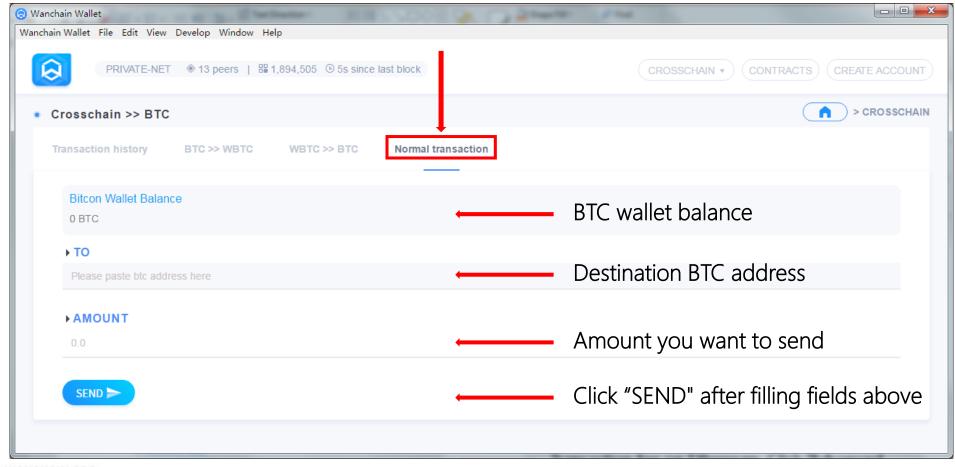
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A4) If you have BTC balance on Wanchain (WBTC balance), you can send WBTC back to Bitcoin blockchain. Click the "WBTC >> BTC" tab below to perform this kind of cross-chain transaction.

The process is similar to the BTC to Wanchain one, except that you don't need to enter BTC password. Please refer to section "A3" for details about how to confirm or cancel the transaction.



A5) You can also perform normal Bitcoin transaction in Wanwallet GUI. Click the "Normal transaction" tab below, fill destination BTC address, transaction amount, then click "SEND"



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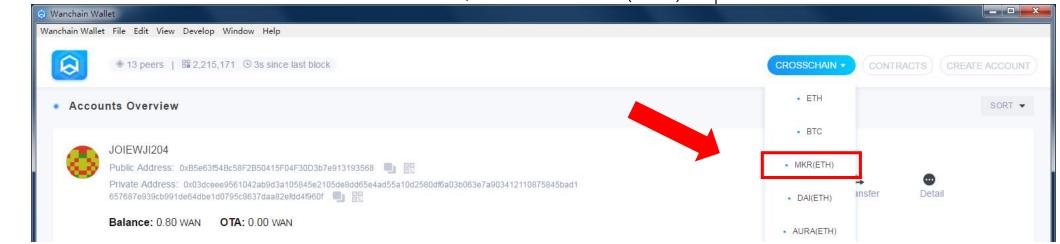


ERC20 Cross-chain transactions

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In following parts of this instruction manual, we use MKR ERC20 token as example, same instructions also apply to other ERC20 tokens.

To access MKR ERC20 cross-chain transactions, click on "MKR(ETH)" option under "CROSSCHAIN" button.



B1) Before you make an MKR ERC20 cross-chain transaction, please check WAN and ETH and also MKR balance in your account in Wanwallet GUI or with explorer listed below. In testnet, if you don't have any WAN or ETH or ERC20 (MKR here), you can use testnet faucets to get some.

Main network explorer:

ETH: https://etherscan.io/ WAN: https://www.wanscan.org/

Test network explorer:

ETH: https://rinkeby.etherscan.io/ WAN: http://13.58.108.244

ETH testnet faucet : WAN testnet faucet :

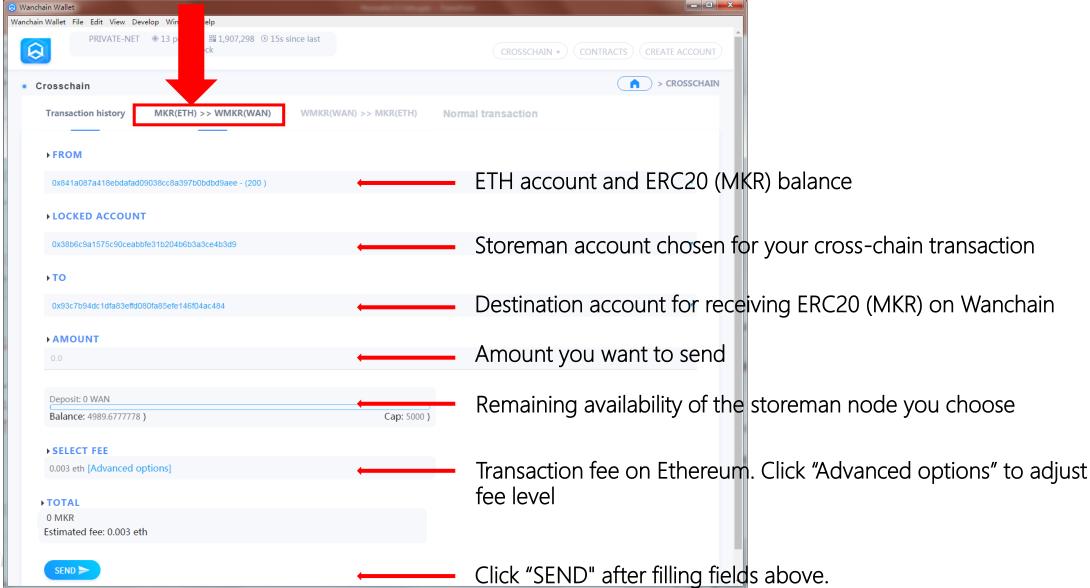
https://faucet.rinkeby.io/ http://52.88.191.131:8080/

MKR testnet faucet : Please send mail to

bounty@wanchain.org to request MKR testnet token

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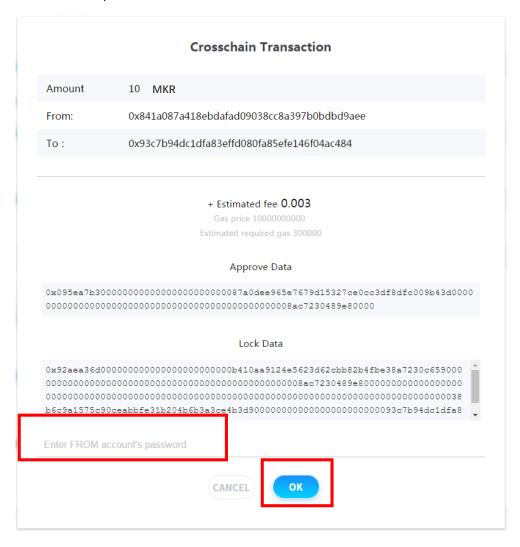
B2) Click the "MKR(ETH) >> WMKR(WAN)" tab below to send ERC20 (MKR) to Wanchain.



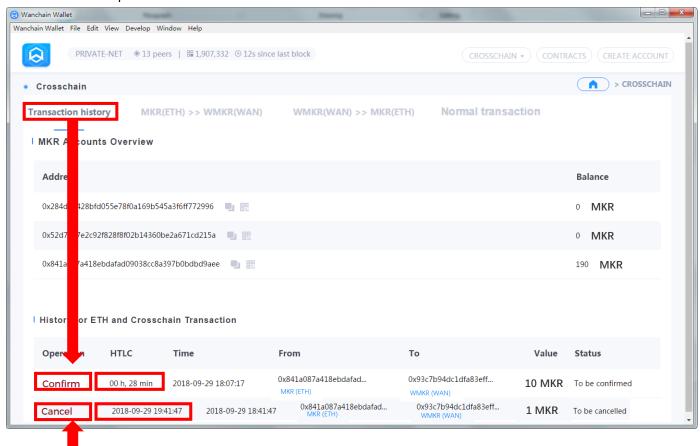
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Enter your password then press "OK" button to send the transaction.



B3) In the "Transaction history" tab, click on the "Confirm" button to finalize the cross-chain transaction process once it turned red.



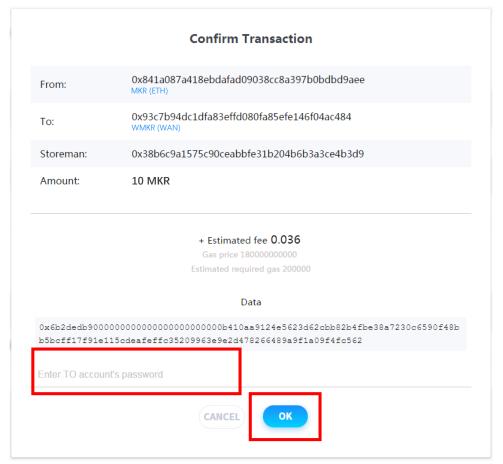
If you do not confirm before the HTLC countdown ends, it means you choose to cancel the transaction and refund the ERC20 (MKR here) from the locked account. The "Confirm" button changes to "Cancel" and you can click it to cancel the transaction once it turned red

Once the "Confirm" button turned red, click it to access "Confirm Transaction" page.

History for ETH and Crosschain Transaction

Operation	HTLC	Time	From	То	Value	Status
Confirm	00 h, 26 min	2018-09-29 18:07:17	0x841a087a418ebdafad MKR (ETH)	0x93c7b94dc1dfa83eff WMKR (WAN)	10 MKR	To be confirmed

Enter the password then click "OK" button to finalize transaction



Once the "Cancel" button turned red (after HTLC countdown ends), click it to access "Cancel Transaction" page.

Cancel

2018-09-29 19:41:47

2018-09-29 18:41:47

0x841a087a418ebdafad... MKR (ETH) 0x93c7b94dc1dfa83eff... WMKR (WAN)

10 MKR

To be cancelled

Enter the password then click "OK" button to cancel the transaction

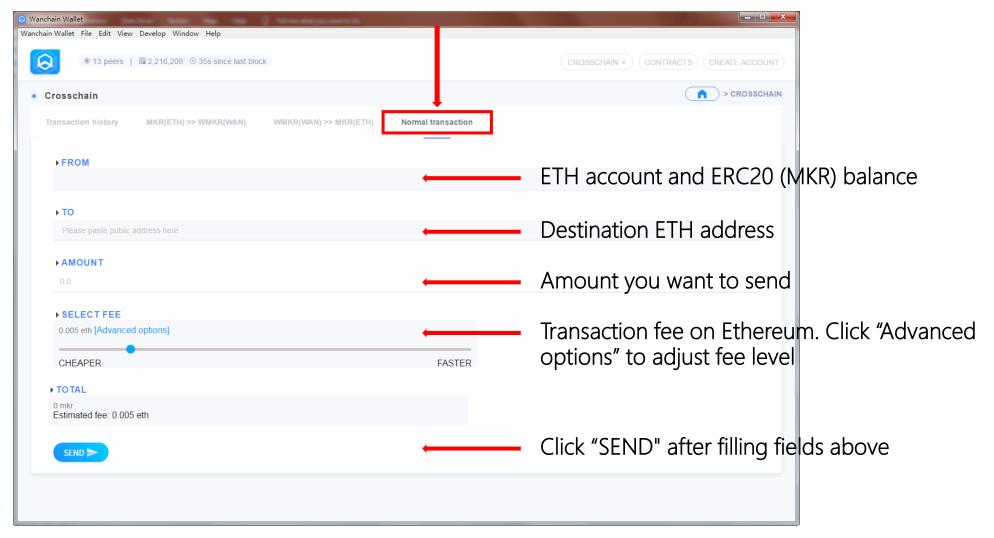
	Cancel Transaction
From:	0x841a087a418ebdafad09038cc8a397b0bdbd9aee MKR (ETH)
То:	0x93c7b94dc1dfa83effd080fa85efe146f04ac484 WMKR (WAN)
Storeman:	0x38b6c9a1575c90ceabbfe31b204b6b3a3ce4b3d9
Amount:	10 MKR
	Estimated required gas 200000 Data
	00000000000000000000000000000000000000
Enter FROM ac	count's password
	CANCEL



B4) If you have ERC20 balance on Wanchain (WMKR balance here), you can send WMKR back to MKR on Ethereum. Click the "WMKR(WAN) >> MKR(ETH)" tab below to perform this kind of cross-chain transaction. The process is similar to the MKR(ETH) to WMKR(WAN) one, please refer to section "B3" for details about how to confirm or cancel the transaction.

(n) > CROSSCHAIN Crosschain WMKR(WAN) >> MKR(ETH) MKR(ETH) >> WMKR(WAN) **▶ FROM** WAN account and WMKR balance (Symbol of ERC20) 0x93c7b94dc1dfa83effd080fa85efe146f04ac484 - (10 token MKR on Wanchain) **► LOCKED ACCOUNT** Storeman account chosen for your cross-chain transaction 0x765854f97f7a3b6762240c329331a870b65edd96 **▶ TO** Destination ETH account for receiving ERC20 (MKR here) 0x841a087a418ebdafad09038cc8a397b0bdbd9ae **AMOUNT** Amount you want to send Transaction Fee: 0 WAN Deposit: 0 WAN Remaining availability of the storeman node you choose SELECT FEE Transaction fee on WAN. Click "Advanced options" to adjust fee 0.054 wan [Advanced options] level TOTAL 0 MKR Estimated fee: 0.054 wan Click "SEND" after filling fields above.

B5) You can also perform normal ERC20 transactions on Ethereum in Wanwallet GUI (Here MKR as example). Click the "Normal transaction" tab below, fill source and destination accounts, transaction amount, fee preference, then click "SEND"







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