

Instruction Manual for Wanwallet 2.1 beta GUI

ERC20 Cross-chain transactions - MakerDAO



With 2.1 beta release, Wanwallet now supports cross-chain transactions with Ethereum and also ERC20 tokens.

Previous versions of Wanwallet still work as usual after release of Wanwallet 2.1 beta, but new features like ERC20 cross-chain transactions require Wanwallet 2.1 beta or later.

For users of previous versions, we strongly recommend <u>backing up keystore files</u> in a safe location before upgrading to Wanwallet 2.1 beta 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 2.1 beta GUI in which users can send ERC20 tokens to Wanchain and withdraw ERC20 from Wanchain to Ethereum.

ERC20 tokens used in this instruction manual are MKR and DAI deployed on Ethereum Rinkeby testnet for testing purposes.

More ERC20 tokens will come with Wanwallet 2.1 mainnet release. Actually Wanwallet 2.1 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.

For 2.1 beta ERC20 cross-chain transactions testing, please use test network, although users can choose between ETH/WAN main network and test network.

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

Terminology

WMKR (WDAI): Wanchain MKR(DAI) Crosschain Token, MKR(DAI) symbol on Wanchain. MKR(DAI) being ERC20 token on Ethereum HTLC: Hashed Timelock Contracts.

1) Download Wanwallet 2.1 beta installation file from http://47.104.60.142/wanwallet2.1/

*Wanwallet 2.1 beta supports Linux, Windows, MacOS, please download corresponding installation file for your OS.

2) Extract the file, run, and click the "LAUNCH APPLICATION" button below to start the wallet

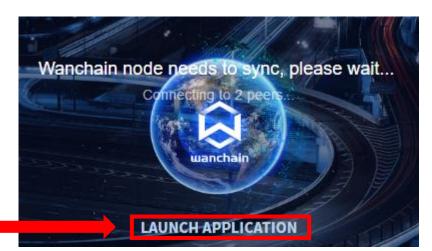
For Windows:

WanWalletGui.exe

For MacOS:

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WanWalletGui



Click here to start

For Linux: Setup by CLI: sudo dpkg -i WanWalletGui-linux64-2.10.X.deb

Start by CLI for main network: wanwalletgui

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

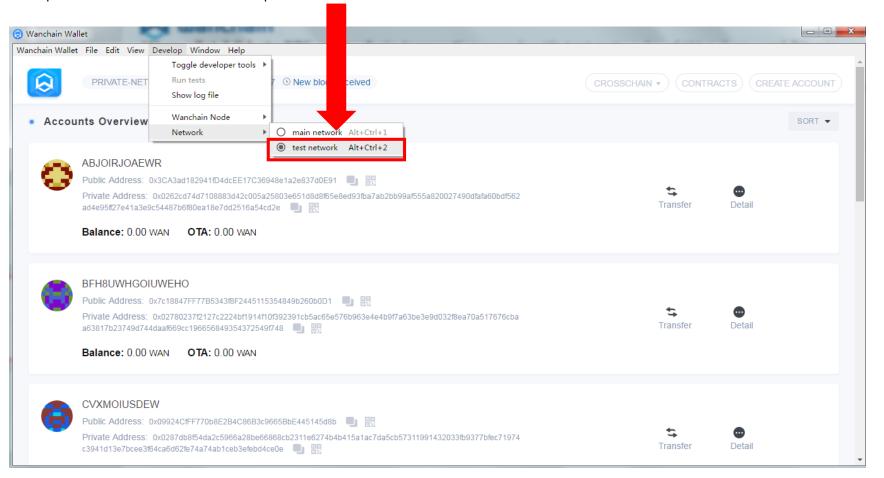
Or click Wanwalletgui to start under /usr/local/bin/

WWW.WANGHAIN.ORG

Wanwallet 2.1 beta ERC20 cross-chain transactions work with test networks of Wanchain and Ethereum.

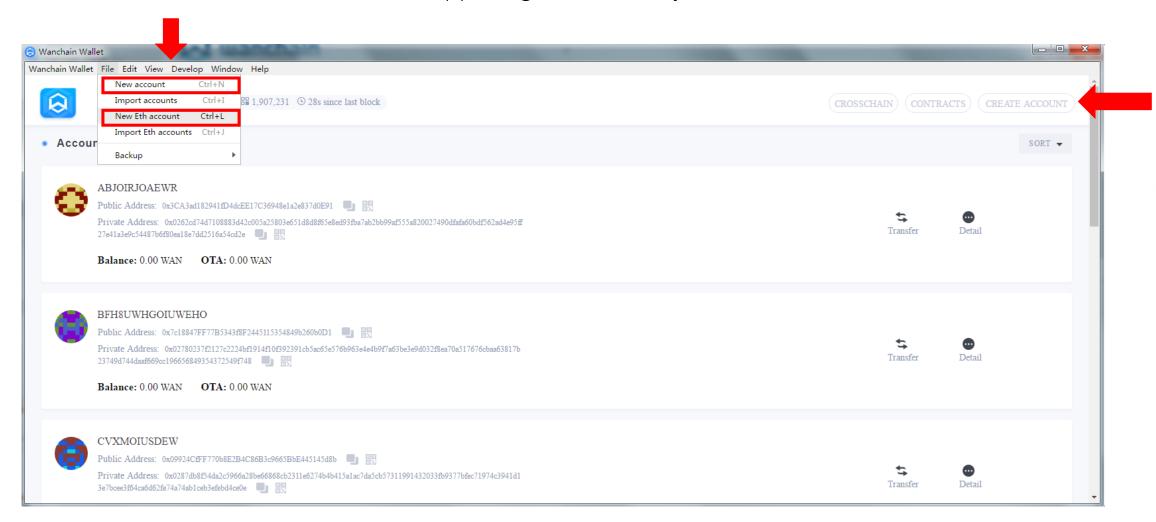
Below you can see the Wanchain accounts overview page (also the default start-up page), you can access it anytime by clicking on the Wanchain logo on the upper-left corner

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





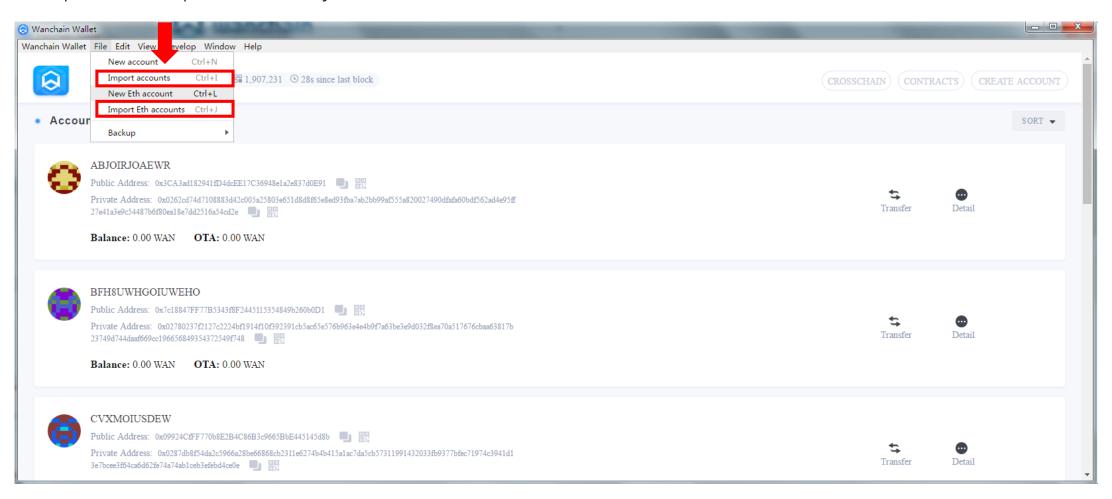
5) These 2 options allow you to create new WAN account or new ETH account. The "CREATE ACCOUNT" button in the upper-right corner only creates new WAN account





You can also import existing WAN or ETH account using wallet keystore file

Backup feature opens local keystore files location of WAN or ETH accounts

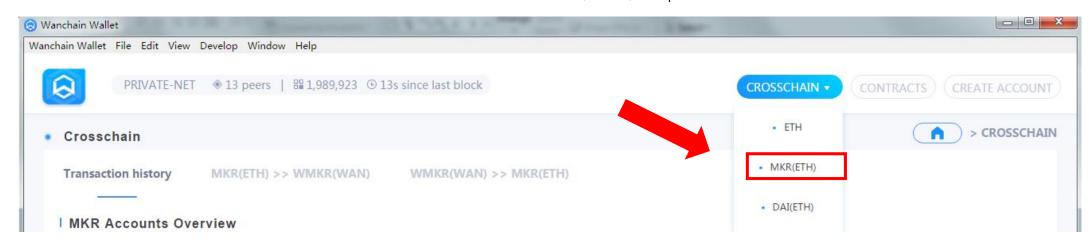


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In following parts of this instruction manual, we use MKR ERC20 token as example, same instructions also apply to DAI ERC20 token.

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



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

Test network explorer:

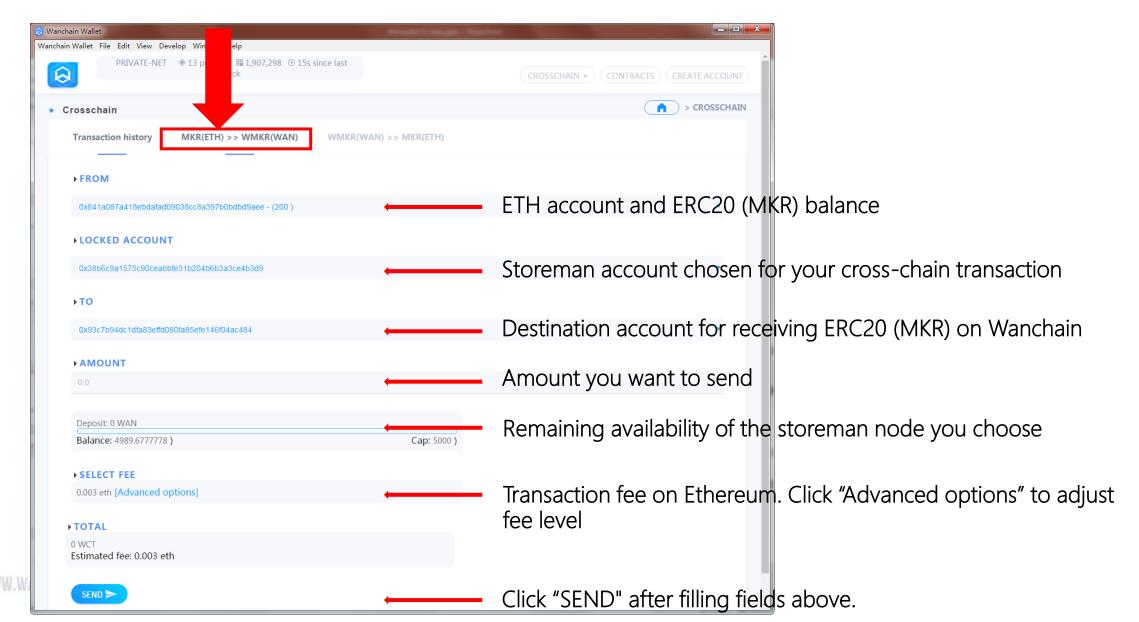
ETH: https://rinkeby.etherscan.io/ WAN: http://13.58.108.244

ETH testnet faucet : WAN testnet faucet :

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

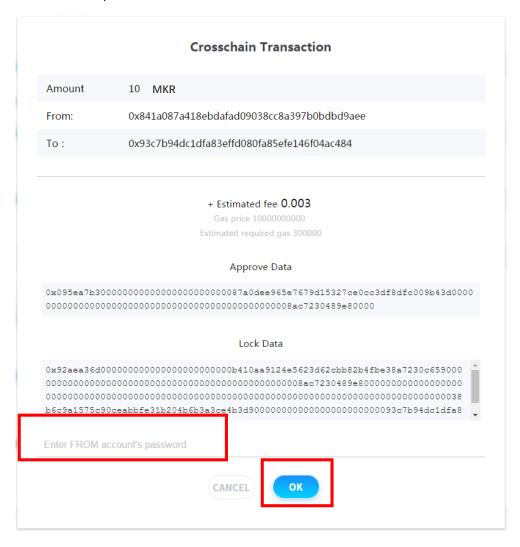
WWW.WANCHAIN.ORG MKR/DAI testnet faucet: Please send mail to bounty@wanchain.org to request MKR/DAI testnet token

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

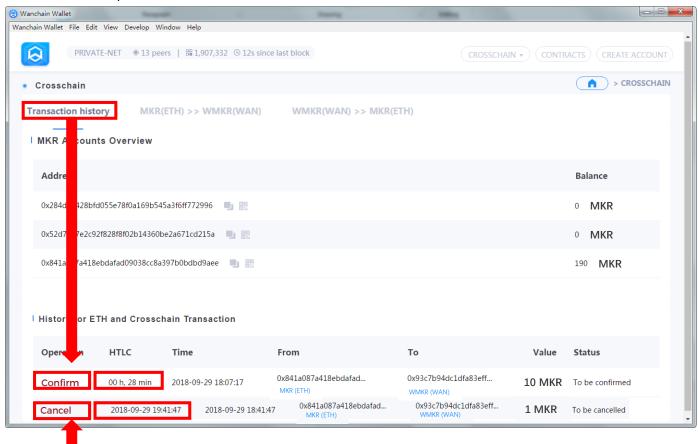




Enter your password then press "OK" button to send the transaction.



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



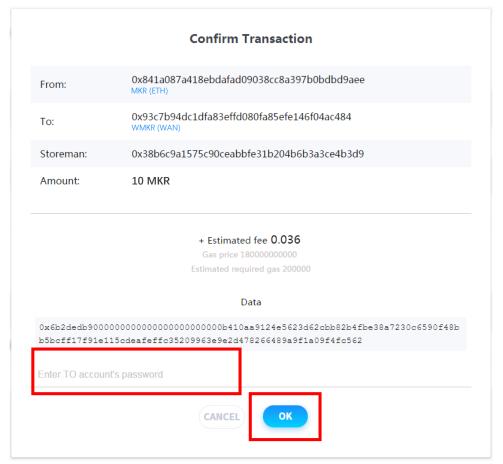
If you do not confirm before the HTLC countdown ends, it means you choose to cancel the transaction and refund the ERC20 (MKR here) from the locked account. The "Confirm" button changes to "Cancel" and you can click it to cancel the transaction once it turned red

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)

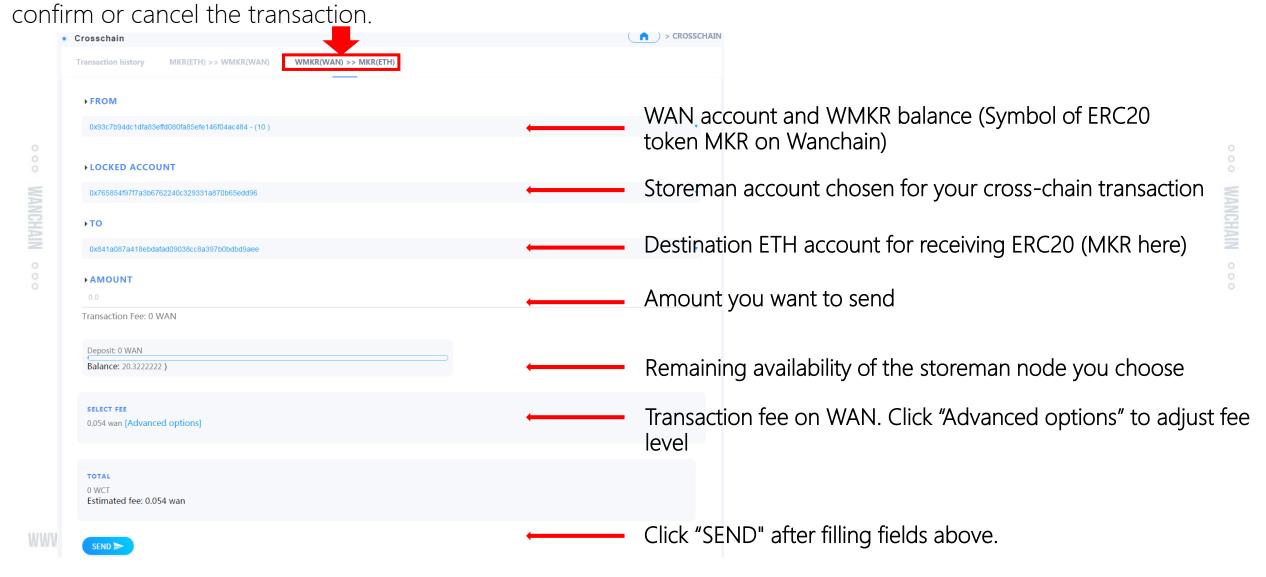
10 MKR

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			

9) 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 8 for details about how to







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