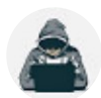


Tron Committee Vote Functionality in TVM Version



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At the Tron Virtual machine launch there was some great info shared by the Tron team. Up and above the TVM and using it to develop DApp there was extra functionality released with the TVM version. I'm going to focus on one part of the functionality released which is the ability for a committee to vote for changes on the network.

We can already see in the below picture that the TVM launching process which will include a step that the committee will vote whether DApp functionality is turned on or left off. This is obviously after all virtual machines are upgraded.

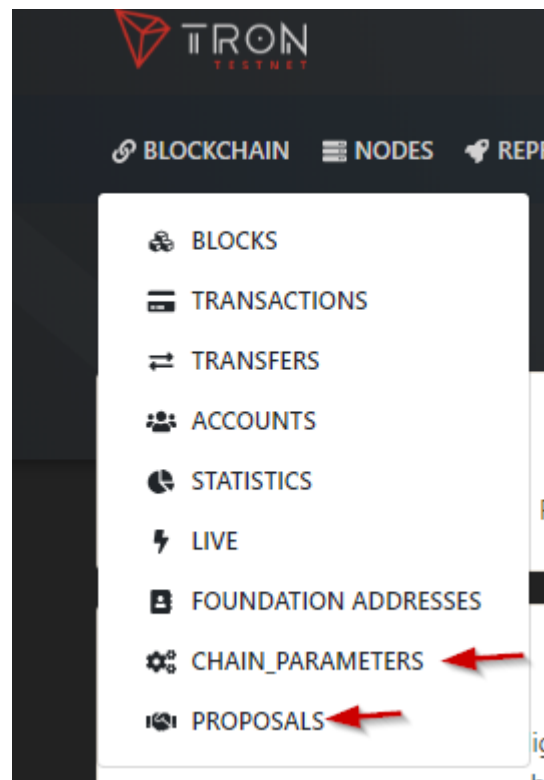


TVM Launch Process

So lets first be clear that the committee is made up of all the Tron SR that have been voted in and are running as Tron SR at the time of the vote. So more responsibility is

being given to a Tron SR you voted for and making the network governed more by the Tron SR. Makes you think twice about your vote.

On the TestNet I have been testing the TVM features, for the vote process we can see there is two new options in the menu, these are related to committee votes.



Menu Update

The chain parameters shows parameters that can be changed, in order for a change to take affect a proposal must be submitted for the change. The committee will then vote on the proposal.

CHAIN_PARAMETERS	
Parameters	
MAINTENANCE_TIME_INTERVAL	10 Minutes
ACCOUNT_UPGRADE_COST	9,999 TRX
CREATE_ACCOUNT_FEE	0.1 TRX
TRANSACTION_FEE	0.00001 TRX
ASSET_ISSUE_FEE	1,024 TRX
WITNESS_PAY_PER_BLOCK	32 TRX
WITNESS_STANDBY_ALLOWANCE	115,200 TRX

CREATE_NEW_ACCOUNT_FEE_IN_SYSTEM_CONTRACT	0 TRX
CREATE_NEW_ACCOUNT_BANDWIDTH_RATE	0.000001
ALLOW_CREATION_OF_CONTRACTS	Yes
REMOVE_THE_POWER_OF_THE_GR	No
ENERGY_FEE	0.0001 TRX
EXCHANGE_CREATE_FEE	1,024 TRX
MAX_CPU_TIME_OF_ONE_TX	50

Chain Parameters

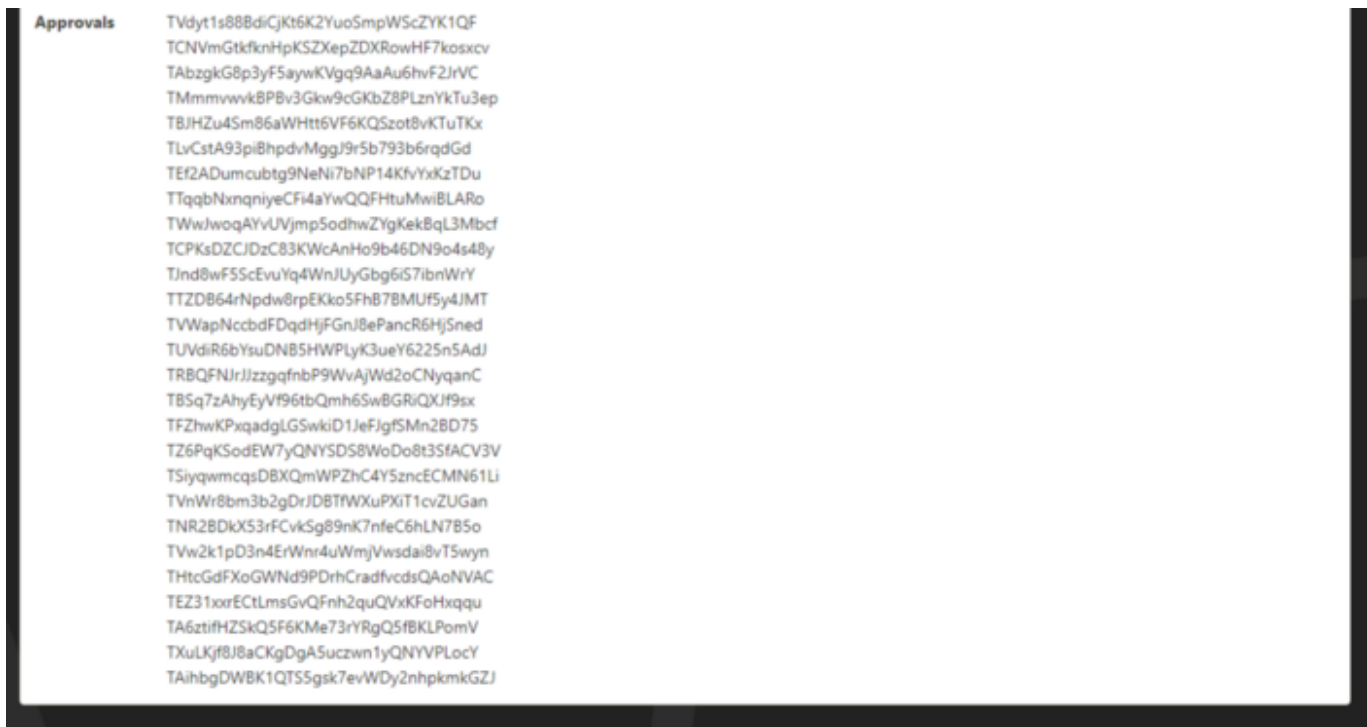
If you navigate to proposals you can see proposals that were submitted. Below is an example of a proposal I submitted to increase the charge when creating a token, I then canceled it as I was testing the proposal functionality.

PROPOSALS		Search Address,Block,Transaction,Token
Proposal #3		
Proposed By	TDvPezbi8T9wcNd6ufJmg3ui3yfDWv8WCS	
Date Created	9/3/2018 3:29 PM (22 hours ago)	
Expires On	9/3/2018 3:40 PM (22 hours ago)	
Proposal	Change ASSET_ISSUE_FEE to 5,000 TRX	
Status	CANCELED	
Approvals	No approvals yet	

Proposal Example

Another proposal visible on the TestNet is one to allow creation of contracts, basically activate TVM functionality. You can then see it was approved and all the members wallets that voted in approval for the change. Bear in mind this is on TestNet only, soon will be done on MainNet.

Proposal #1	
Proposed By	TXuLKjF8J8aCKgDgA5uczwn1yQNYVPLocY
Date Created	8/30/2018 12:19 PM (5 days ago)
Expires On	8/30/2018 12:30 PM (5 days ago)
Proposal	Change ALLOW_CREATION_OF_CONTRACTS to Yes
Status	APPROVED



Proposal To Activate


In order to create a proposal a Tron SR will need to create the proposal with the wallet-cli, below you can see the wallet-cli has been updated with new functionality. I'm focusing on functionality specific to proposals.

```
TransferAsset
ParticipateAssetIssue
AssetIssue
CreateAccount
CreateWitness
UpdateWitness
VoteWitness
ListWitnesses
ListAssetIssue
ListNodes
ListProposals
GetBlock
GetTransactionCountByBlockNum
GetTotalTransaction
GetNextMaintenanceTime
GetTransactionById
getTransactionInfoById
GetTransactionsFromThis
GetTransactionsToThis
GetProposalById
GetBlockById
GetBlockByLimitNext
GetBlockByLatestNum
FreezeBalance
UnfreezeBalance
WithdrawBalance
UpdateAccount
SetAccountId
unfreezeasset
DeployContract contractName ABI byteCode constructor params isHex fee_limit consume_user_reso
updateSetting contract_address consume_user_resource_percent
triggerContract contractAddress method args isHex fee_limit value
```

```

TriggerContract contractAddress method args isHex fee_limit value
getContract contractAddress
UpdateAsset
UnfreezeAsset
buyStorage
buyStorageBytes
sellStorage
CreateProposal
ListProposals
GetProposal
ApproveProposal
DeleteProposal
Exit or Quit
Input any one of the listed commands, to display how-to tips.
<=====--> 85% EXECUTING [1m 9s]
> :run

```



Wallet-cli

To create a proposal it is a matter of selecting the parameter and saying the new proposed value. In this case I'm proposing to increase transaction fee from 10 to 20. Again, this is just a test on TestNet.

```

ApproveProposal
DeleteProposal
Exit or Quit
Input any one of the listed commands, to display how-to tips.
<=====--> 85% EXECUTING [8m 34s]
> :run
CreateProposal 3 20

```

Trx Fee

Will be requested to confirm before the proposal is submitted.

```

<=====--> 85% EXECUTING [9m 8s]
Receive txid = 85ab0924243fd03eef9a7d2dfd4f951ef2388b781d69891dd7c3baf00b49f9cf
Your transaction details are as follows, please confirm.
hash:
c532e25fdde3561029a7d9105b17b27b089e8316e9ca996f61684ead3b56eee1
txid:
85ab0924243fd03eef9a7d2dfd4f951ef2388b781d69891dd7c3baf00b49f9cf
raw_data:
{
  ref_block_bytes: 297d
  ref_block_hash: 9cb72ac2c76a2ad5
  contract:
  {
    contract 0 :::
    [
      contract_type: ProposalCreateContract
      owner_address: TDvPezbi8T9wcNd6ufJmg3ui3yfDWvBWCS
      parametersMap: {3=20}
    ]
  }
  timestamp: Tue Sep 04 12:04:55 UTC 2018
  fee_limit: 0
}

```

```
Please confirm that you want to continue enter y or Y, else any other.
<=====--> 85% EXECUTING [9m 26s]
> :run
```

Confirm Proposal

The proposal can then be seen on Tronscan in a pending state. Then Tron SR that wish to approve the proposal can approve. If majority approve the proposal takes affect.

PROPOSALS		Search Address,Block,Transaction,Token
Proposal #5		
Proposed By	TDvPezbi8T9wcNd6ufJmg3ui3yfdWvBWCS	
Date Created	9/4/2018 4:29 PM (1 minute ago)	
Expires On	9/4/2018 4:40 PM (in 10 minutes)	
Proposal	Change TRANSACTION_FEE to 0.00002 TRX	
Status	PENDING	
Approvals	No approvals yet	

Proposal Created

Then to approve proposal a similar command is issued

```
> :run
ApproveProposal 5 True
```

```
Receive txid = 12cafe0691c69620b9d9aea171067b8f31500a71d4516c2ec964d408ab034f21
Your transaction details are as follows, please confirm.
hash:
af81ce3dadc7b5ca19edc8136e770469b1d4877441ed9a79406fab85448be6d0
txid:
12cafe0691c69620b9d9aea171067b8f31500a71d4516c2ec964d408ab034f21
raw_data:
{
  ref_block_bytes: 3485
  ref_block_hash: 43c5a38762ae9eef
  contract:
  {
    contract 0 :::
    [
      contract type: ProposalApproveContract
      owner_address: TDvPezbi8T9wcNd6ufJmg3ui3yfdWvBWCS
      proposal id: 5
      IsAddApproval: true
    ]
  }
  timestamp: Tue Sep 04 14:33:09 UTC 2018
  fee_limit: 0
}
```

```

Please confirm that you want to continue enter y or Y, else any other.
<<=====--> 85% EXECUTING [9m 59s]
Please input your password.
<<=====--> 85% EXECUTING [10m 4s]
txid = 12cafe0691c69620b9d9aea171067b8f31500a71d4516c2ec964d408ab034f21
14:33:55.472 INFO [main] [Client] (Client.java:921) approveProposal successful !!
<=====--> 85% EXECUTING [10m 21s]
> :run

```

Approve/Vote for Proposal

Once approved by Tron SR it will show that on Tronscan, but it will not come into affect until majority of Tron SR approve. Must be $2/3 + 1$, so 19 Tron SR must approve.

PROPOSALS		Search Address,Block,Transaction,Token
Proposal #5		
Proposed By	TDvPezbi8T9wcNd6ufmg3ui3yfDWvBWCS	
Date Created	9/4/2018 4:29 PM (5 minutes ago)	
Expires On	9/4/2018 4:40 PM (in 5 minutes)	
Proposal	Change TRANSACTION_FEE to 0.00002 TRX	
Status	PENDING	
Approvals	TDvPezbi8T9wcNd6ufmg3ui3yfDWvBWCS	

Tronscan showing approvals

I hope this gives you a view of additional voting power that will be given to Tron SR.

Hope this was as interesting for you as it was for me.

Thanks.

CryptoGuyInZA — Tron SR

Blockchain Tron Virtual Machine Tron Tron Tvm Tvm

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