Week 6 Slide

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What I did this week

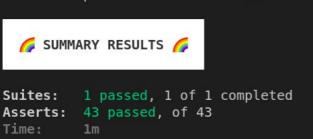
- 1. Inquired Iroha community about Iroha docker health check + Iroha JS library response
- 2. Switched to Iroha's TS library, got output from all commands/queries
- 3. Rewrote Cactus's connector to manipulate Iroha's TS library

(able to pass commands and queries and get back response)

4. Tried almost all Iroha's commands+queries. (Tracking the progress with a shared Google Sheet document)

PASS packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-trans

5. Redesigned test cases, pushed to Github.



action-endpoint-v1.test.ts 43 OK 1m

- 1. "The set of possible commands are fixed or is it somehow extendible"?
- 2. Using an interface for IrohaTransactionConfig?
- 3. Response definition in openison
- Outputs that are hard to test (See next slide)

```
export interface IrohaTransactionConfig {
         [key: string]: object | any;
          * @type {string}
          * @memberof IrohaTransactionConfig
        accountName?: string;
          * @type {string}
10
           @memberof IrohaTransactionConfig
13
        domainId?: string;
          * @type {string}
          * @memberof IrohaTransactionConfig
        publicKey?: string;
```

```
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> { commandName: 'revokePermission', params: [ 'user1@test', [ 1 ] ] }
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> START::: TX RESPONSE
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> txResponse Error Code:::: 0
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> txResponse Cmd/Err Name::::
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> txResponse Cmd Index:::: 0
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> txResponse Tx Hash:::: c3f62e37e2e7609cf9b2361246dca56d782586848b2a16d3
8d997524474fcbef
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> txResponse Tx Status Name:::: REJECTED
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> txResponse Object:::: {
                 endpoint-v1.test.ts 1> }
                 endpoint-v1.test.ts 1> { commandName: 'revokePermission', params: [ 'userl@test', [ 6 ] ] }
                 packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
                 endpoint-v1.test.ts 1> START::: TX RESPONSE
                 packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
                 endpoint-v1.test.ts 1> txResponse Error Code:::: 0
                 endpoint-v1.test.ts 1> txResponse Cmd/Err Name:::: Transaction deserialization failed: hash Ha
                 sh: [c3f23c66c55e830bf5f3e4313bd02d245eae86253c672ffa233a7973297f77e2], Protobuf Transaction:
                 [Child errors=[RevokePermission: [Errors=[Invalid grantable permission.]]]]
                 endpoint-v1.test.ts 1> txResponse Cmd Index:::: 0
                 packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
                 endpoint-v1.test.ts 1> txResponse Tx Hash:::: c3f23c66c55e830bf5f3e4313bd02d245eae86253c672ffa
                 233a7973297f77e2
                 endpoint-v1.test.ts 1> txResponse Tx Status Name:::: STATELESS VALIDATION FAILED
                 endpoint-v1.test.ts 1> txResponse Object:::: {
                 packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
                 endpoint-v1.test.ts 1> txStatus: 0.
                 endpoint-v1.test.ts 1> txHash: 'c3f23c66c55e830bf5f3e4313bd02d245eae86253c672ffa233a7973297f
                 77e2',
                 packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
```

endnoint_v1 test ts 1> errOrCmdName: 'Transaction desertalization failed: hash Hash: [c3f23c

Output for

getAccountTransactions

```
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> {
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
                         commandName: 'getAccountTransactions',
endpoint-v1.test.ts 1>
packages/cactus-plugin-ledger-connector-irona/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                         params: [
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           'admin@test'.
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           100,
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
                           'f8a25575dbb117e392b8bc6497d2f5500904b91e3d49232ede2b429bdc6171a0'
endpoint-v1.test.ts 1>
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> }
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> {
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                         transactionReceipt: {
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           transactionsList: [ [Object] ],
packages/cactus-plugin-ledger-connector-iroha/ara/topt/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           allTransactionsSize: 5,
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
                           nextTxHash: ''
endpoint-v1.test.ts 1>
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> }
```

output

getAccount AssetTransactions

endpoint-v1.test.ts 1> commandName: 'getAccountAssetTransactions', packages/cactus-plugin-ledger-connector-irona/src/cest/typescript/integration/run-transactionendpoint-v1.test.ts 1> params: [packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> 'admin@test', packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> 'coolcoin#test', packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> 100. packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> 'f8a25575dbb117e392b8bc6497d2f5500904b91e3d49232ede2b429bdc6171a0' packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> } packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> { packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> transactionReceipt: { packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> transactionsList: [[Object]], packages/cactus-plugin-ledger-connector-iroha/src/test/types-ript/integration/run-transactionendpoint-v1.test.ts 1> allTransactionsSize: 1, packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> nextTxHash: '' packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transactionendpoint-v1.test.ts 1> }

packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-

output for

getTransactions

```
endpoint-v1.test.ts 1>
                        commandName: 'getTransactions',
packages/cactus-plugin-ledger-connector-irona/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                        params: [
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                             'd3f5a6af779887f2dae677ea2eeefc3f73b5a730d33dda1814f00f3e75a0e3e8
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> }
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> {
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
                        transactionReceipt: {
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           wrappers : { '1': [Array] },
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           messageId : undefined,
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           arrayIndexOffset : -1,
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           array: [ [Array] ],
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           pivot: 1.7976931348623157e+308,
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
                           convertedPrimitiveFields : {}
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> }
```

endpoint-v1.test.ts 1> }

output for getRawAccount

```
endpoint-v1.test.ts 1> }
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
indpoint-v1.test.ts 1> { commandName: 'getRawAccount', params: [ 'user1@test' ] }
packages/cactus-plugin-ledger-connector-irona/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1> {
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                        transactionReceipt: {
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           wrappers : { '1': [Object] },
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           messageId : undefined,
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           arrayIndexOffset : -1,
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
                          array: [ [Array], [Array] ],
endpoint-v1.test.ts 1>
packages/cactus-plugin-ledger-connector-iroba/ers/test/lypescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           pivot: 1.7976931348623157e+308,
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
                           convertedPrimitiveFields : {}
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
endpoint-v1.test.ts 1>
packages/cactus-plugin-ledger-connector-iroha/src/test/typescript/integration/run-transaction-
```

General Question

1. Define what to be included/ not included in the integration?

Category	Commands (18)	In test case?	Remark	Queries		Remark
Account	createAccount	1		getAccount	1	
				getRawAccount	1?	hard to test output
	setAccountDetail	?		getAccountDetail	?	how to use
	setAccountQuorum	?	always rejected			
	compareAndSetAccountDetail	?				
Asset/TX	createAsset	1		getAssetInfo	1	
	addAssetQuantity	1		getAccountAssets	1	
	subtractAssetQuantity	?	always rejected	getTransactions	1?	hard to test output
	transferAsset	1		getPendingTransactions	?	
				getRawPendingTransactions	?	
				getAccountTransactions	1?	hard to test output
				getAccountAssetTransactions	1?	hard to test output
Domain	createDomain	1				
Role	createRole	?	always rejected	getRoles	1	
	detachRole	?	always rejected			
	appendRole	?	always rejected			
Signature	addSignatory	?	always rejected	getSignatories	1	
	removeSignatory	?	always rejected			
Permission	grantPermission	?	how to use	getRolePermissions	1	array of mappings
	revokePermission	?	how to use	getBlock	?	
				getEngineReceipts	?	
				fetchCommits	?	
Ignore						
Peer	addPeer	x		getPeers	х	
	removePeer	x		• The state of the		

Questions for me

Critique is welcomed!

Expectation of Coming Week (Week 7)

Thank you!