

Descriptive Changelog for 2.0.0 Release

Changes in SecurityTokenRegistry and TickerRegistry:

- `TickerRegistry` contract is removed from the 2.0.0 release. So every `TickerRegistry` functions can be called from the `STR`.
- Rename `LogNewSecurityToken` event to `NewSecurityToken` with change in parameters `NewSecurityToken(string _ticker, string _name, address indexed _securityTokenAddress, address indexed _owner, uint256 _addedAt, address _registrant, bool _fromAdmin, uint256 _registrationFee);`
- Rename the `addCustomSecurityToken()` to `modifySecurityToken()` by introducing the new parameter `_deployedAt` (uint256 is the timestamp at which security Token was deployed) and remove the variable `_swarmHash` from the function call. #199
- `modifySecurityToken()` emits `NewSecurityToken` event.
- Deleted `LogAddCustomSecurityToken`.
- Change in the function parameter `_version` to `_major, _minor, _patch`.
- Return one more variable called `_deployedAt` in the `getSecurityTokenData()` function call. #199
- `changePolyRegistrationFee()` renamed to `changeSecurityLaunchFee()`.
- `LogChangePolyRegistrationFee` event is rename to `ChangeSecurityLaunchFee`.
- `polymathRegistry, moduleRegistry, securityTokenRegistry, tickerRegistry, polyToken` variable is removed from the contract.
- To access `polymathRegistry, polyToken` variables from `STR` we introduced a common function called `getAddressValues(bytes32 _variable)`. ex- to access the value is `contract.getAddressValues(web3.utils.soliditySha3(_variable))`.
- `registrationFee` has renamed to `_stLaunchFee` and it only be accessed using new function called `getSecurityTokenLaunchFee()`.
- `updatePolyTokenAddress(address _newAddress)` is introduced to change the `polyToken` address in the `STR`. only accessed by the `owner` of the `STR`.
- `updateFromRegistry()` has removed from the `STR`.
- `isPaused()` function has introduced to know the status whether `STR` operations are paused or not.

- `paused` variable is removed.
- Added `getSTFactoryAddress()` to access the current STFactory Address.
- Added `getProtocolVersion()` to access the current protocol version.
- Remove the `swarmHash` variable from the `registerTicker()` params list.
- Rename the `LogRegisterTicker` with `RegisterTicker` and introduced some new parameters in event - `event RegisterTicker(address indexed _owner, string _ticker, string _name, uint256 indexed _registrationDate, uint256 indexed _expiryDate, bool _fromAdmin, uint256 _registrationFee);`
- `getTickerRegistrationFee()` function is introduced to access the ticker registration fee.
- `registrationFee` variable has removed.
- `expiryLimit` value has changed from 15 days to 60 days.
- `getExpiryLimit()` function is used to access the `expiryLimit`.
- Rename event `LogChangeExpiryLimit` to `ChangeExpiryLimit`.
- `checkValidity()`, `isReserved()` functions are removed.
- `getDetails()` has renamed to `getTickerDetails()`.
- Introduced `changeTickerRegistrationFee()` function to change the ticker registration fees.
- Added `modifyTicker()` function to modifies the ticker details. Only Polymath has the ability to call this function.
- Added `removeTicker()` function to removes the ticker details, associated ownership & security token mapping and emit `TickerRemoved(string _ticker, uint256 _removedAt, address _removedBy)` event. Only Polymath has the ability to call this function.
- Added `transferTickerOwnership()` function to transfers the ownership of the ticker and emits `ChangeTickerOwnership(string _ticker, address indexed _oldOwner, address indexed _newOwner)` event.
- Added `getTickersByOwner()` function to returns the list of tickers owned by the selected address.
- Added `getTokensByOwner()` function to returns the list of tokens owned by the selected address.

Changes in the ModuleRegistry:

- `useModule()` entertain modules those are deployed and verified by the PM only and if the `customModulesAllowed` feature is true then it also allows to use Module those are deployed by the issuer.
- Similarly for `registerModule()`.
- Added `removeModule()` to remove the module.
- Added `getTagsByTypeAndToken(uint8 _moduleType, address _securityToken)` to returns all the tags related to the a module type which are valid for the given token.
- Added `getTagsByType()` to return the tags according to the module type.
- Removed `getTagByModuleType()`, `addTagByModuleType()`, `removeTagByModuleType()`.
- Added `getModulesByType()` to get the list of addresses of Module Factory of a particular type.
- Added `getReputationByFactory()` to get the reputation of the factory.
- Added `getModulesByTypeAndToken()` to get the list of available Module factory addresses of a particular type for a given token.

Changes in SecurityToken:

- Added `getVersion()` to access the securityToken version.
- `tokenBurner` variable has removed.
- `tokenDetails` is used to store that off-chain data hash.
- `freeze` is renamed to `transfersFrozen` used to halt the transaction.
- `finishedIssuerMinting`, `finishedSTOMinting` is removed and a new variable introduced `mintingFrozen` to permanently halt all minting.
- `currentCheckpointId` public variable has added to access the value of current checkpoint.
- `controllerDisabled` boolean variable is added to permanently halt controller actions.
- Remove the `MAX_MODULES` variables from the ST.
- Event `LogModuleAdded`, `LogModuleRemoved` is renamed to `ModuleAdded`, `ModuleRemoved` respectively and `uint8 indexed _type` variables is now replaced with `uint8[] _types`.
- Removed `Log` prefix from all events present in the ST.
- Event `LogModuleBudgetChanged` is renamed to `ModuleBudgetChanged` and change its params as `ModuleBudgetChanged(uint8[] _moduleTypes, address _module, uint256 _oldBudget, uint256 _budget)`.

- In event `FreezeTransfers` variable `_freeze` is replaced with `_status`.
- `LogFinishMintingIssuer` & `LogFinishMintingSTO` have been removed and new event introduced to log the minting is `FreezeMinting(uint256 _timestamp)`.
- Added `archiveModule(address _module)` & `unarchiveModule(address _module)` function added. Only be called by the Issuer.
- Module is only be removed `removeModule()` until the module get archived first.
- `getModule()` function signature is change to `getModule(address _module)` with return parameters `bytes32` name of module, `address` module address, `address` module factory address, `bool` module archived, `uint8` module type.
- `getModulesByName()` function signature is change to `getModulesByName(bytes32 _name)` and returns the list of module address with the same name `address[]`.
- Added `getModulesByType(uint8 _type)` to returns a list of modules that match the provided module type.
- `withdrawPoly()` has removed and introduced a new function called `withdrawERC20()` similar to `reclaimERC20()` function.
- Remove the `moduleIndex` parameter from the `changeModuleBudget()` function call.
- Added `getInvestors()`, `getInvestorCount()` functions to get the list of investors and the count of the investors respectively.
- Remove `getInvestorsLength()`.
- Added `transferWithData()`, `transferFromWithData()` to allow passing of a `'bytes _data'` for off-chain validation.
- Added `_data` parameter in `verifyTransfer()` function params.
- `finishMintingIssuer()`, `finishMintingSTO()` are removed and introduced a new function called `freezeMinting()` to freeze minting.
- Added `mintWithData()`.
- Removed `setTokenBurner()`.
- Added `burnFromWithData()`, `burnWithData()` functions to burn the tokens and these functions only be called by the `BURN_KEY` type module and remove the `burn()` function.
- Added `getCheckpointTimes()` function to get list of times that checkpoints were created.
- Added `setController()`, `disableController()` functions to add controller and disable controllers completely.
- Added `forceTransfer()`, `forceBurn()` functions called by the controllers.
- Added `getVersion()` function to get the version of ST.

