Count Transfer Manager

- Contract name: CountTransferManager.sol
- Type: Transfer Manager Module
- Compatible Protocol Version: TBD
- Associated LucidChart: TBD
- Github Repo: https://github.com/PolymathNetwork/polymathcore/blob/master/contracts/modules/TransferManager/CountTransferManager. sol

How it works

Summary: This contract is a transfer manager for limiting the maximum number of token holders.

// The maximum number of concurrent token holders

Key functionalities (as defined in the Smart Contract)

Initialization

Configure

Summary: This function is used to initialize the variables on the entire contract

```
/**
    * @notice Used to initialize the variables of the contrac
t
    * @param _maxHolderCount Maximum no. of holders this modu
le allows the SecurityToken to have
    */
    function configure(uint256 _maxHolderCount) public onlyFac
tory
```

Transfer Restriction

Summary: This function is used to verify the transfer transaction and prevent a transfer if it passes the allowed amount of the token holders limit.

```
/**
     * @notice Used to verify the transfer transaction and pre
vent a transfer if it passes the allowed amount of token holde
rs
     * @param _from Address of the sender
     * @param _to Address of the receiver
     * @param _amount Amount to send
     */
    function executeTransfer(
        address _from,
        address to,
        uint256 _amount,
        bytes calldata /*_data*/
    )
        external
        returns(Result)
```

ChangeHolderCount

Summary: This function allows the issuer to set the cap for the amount of token holders there can be for an STO.

```
/**
  * @notice Sets the cap for the amount of token holders the
re can be
  * @param _maxHolderCount is the new maximum amount of toke
n holders
  */
```

```
function changeHolderCount(uint256 _maxHolderCount) public
withPerm(ADMIN)
```

Get Permissions

Summary: This function returns the permissions flag associated with the Count Transfer Manager.

```
/**
 * @notice Returns the permissions flag
*/
  function getPermissions()
}
```

Special considerations / notes

None

Troubleshooting / FAQs

None

Know Issues / bugs

None

Changelog

(2.1.0)

Added/Changed:

The Count TM allowed an investor to transfer all their tokens to another address when limit was naturally reached (no. Of investors = limit) but it did not allow this to happen when number of investor became more than the limit by force transfer. We've now updated the verifyTransfer function so that when a maximum holder

amount is reached, one of the original holders can transfer all his tokens to a new holder (not in the count list) and then the original holder will be removed.