

Rewards Smart Contract Integration

Claimwait: This is the duration when can user claim the rewards. If claimwait is 7 days, then we can claim rewards on every 7 days from the lastclaim date.

Buybackwait: This is the duration when can we buy rewards. If buybackwait in 7 days, then we can generate rewards on every 7 days from the lastbuybackwait date.

Rewards Dashboard – My Rewards



The screenshot shows a web interface for a rewards dashboard. At the top, it displays 'Token Balance : 10,994,000' and a 'Switch to Network' button. A 'Connect Wallet' button is also visible. Below this is the 'Rewards Dashboard' section with a '+ Claim all rewards' button. The dashboard has three tabs: 'My Rewards' (active), 'Overview', and 'Settings'. A table lists rewards for four tokens: SHIB, DOGE, ADA, and BTC. Each row shows the token name, minimum balance required (1,000,000), total rewarded (25,000), claimable amount, next claim date, and a '+ Claim' button.

Name	Min Balance Required	Total Rewarded	Claimable	Next Claim	Action
SHIB	1,000,000	25,000	1,500	1st June 15:00	+ Claim
DOGE	1,000,000	25,000	1,500	30th June 15:00	+ Claim
ADA	1,000,000	25,000	1,500	1st June 15:00	+ Claim
BTC	1,000,000	25,000	0.004	1st June 15:00	+ Claim

Name: : Under Read, Function No:25 rewardAssetAt, pass 0 in the array index, then the first reward token address will be fetched. The contract can have maximum of 10 reward assets. We can fetch the addresses by increasing index and place the names of reward tokens under “Name” column in the table.

Please rename the second column from Min Balance Required to **Current Status**

Current Status: The second column current Status should be Eligible OR Not Eligible against each reward name.

Get the reward token address of each name and then go to Function Number 26. rewardInfo, and pass the rewardtoken address. This function returns minimumTokenBalanceforRewards, store minimumtokenbalanceforRewards in one variable named **RewardsMinBalance**

Mimimutokenbalanceforrewards will be in Wei. When caluculating covert from WEI fomate

If **TokenBalance** is greater than OR equal to **RewardsMinBalance**, then CurrentStatus = Eligible otherwise Not Eligible

Total Rewarded: Third column in the table is Total Rewarded. Under Read, Function No: 35 withdrawnRewardOf, input the Reward Token address and user wallet address. Reward token address can be found from the Read function No25. rewardAssetAt function. User wallet address can be fetched from the wallet he connected.

It returns the total withdrawn rewards in Wei. When displaying covert from WEI format and display the actual value.

Claimable: Fourth Column in the table is Claimable. Under Read, Function No: 34 withdrawableRewardOf, input the Reward Token address and user wallet address.

Reward token address can be found from the function 25. rewardAssetAt function.

User wallet address can be fetched from the wallet he connected.

It returns the total withdrawable rewards in Wei. When displaying covert unitconverter and display the actual value.

Next Claim: Under Read, Function No: 6 getAccountRewardsInfo input the Reward Token address and user wallet address. It returns the total rewards info in Wei. When displaying Next Claim covert unitconverter and display the actual value. If Claimable for particular reward token is 0, then NextClaim will be NA. If Claimable is not null or 0, then display the next claim time in UTC.

Claim: Under Action, rename the buttons as "Claim. When user clicks on "Claim" button, call a function named "singleRewardClaimByUser" by passing the rewardtoken address. Rewardtoken address can be from the 25.rewardAssetAt function, where you fetched in the first step.

Claim All Rewards: When user clicks on this button, call a function named "multipleRewardClaimByUser" under Write function of Smart Contract

Rewards Dashboard – Overview tab

Rewards Dashboard					
Claim all rewards					
My Rewards Overview Settings					
Update Balance					
Name	No of Holders	Total Distributed	Total Claimable	Last Claim	Next Claim
SHIB	2,500	9,990,000	1,500,000	1st Apr 4:30	7th Apr 4:30
DOGE	2,500	9,990,000	1,500,000	1st Apr 4:30	7th Apr 4:30
ADA	2,500	9,990,000	1,500,000	1st Apr 4:30	7th Apr 4:30
BTC	2,500	9,990,000	1,500,000	1st Apr 4:30	7th Apr 4:30
Total Rewards:		59,000			

Update Balance: When user clicks on Update Balance button call the UpdateBalance Function under write.

We can validate before calling updatebalance.

How to validate it?

Under Read Function Number 25. rewardAssetAt, put the 0 as index, then it will return the first reward token address.

Then go to Function Number 26. rewardInfo, and pass the rewardtoken address that you got at Function No: 25. This function returns minimumTokenBalanceforRewards, store minimumtokenbalanceforRewards in one variable named **RewardsMinBalance**

Mimimutokenbalanceforrewards will be in Wei. When calculating covert from WEI fomate

If User’s Tokenbalance is greater than OR equal to Tokenbalance then alert a msg that **“Token Balance is already synched with Rewards”** Otherwise call UpdateBalance Function.

In otherwards we can simply hide it and unhide it.

Name: : Under Read, Function No:25 rewardAssetAt, pass 0 in the array index, then the first reward token address will be fetched. The contract can have maximum of 10 reward assets. We can fetch the addresses by increasing index and place the names of reward tokens under “Name” column in the table.

No of Holders: Under Read Function No:12 getNumberOfTokenHolders, Pass the reward token address , then you will get the number of token holders

Total Generated Rewards: Under 26. rewardInfo: It will show how many rewards are generated against each reward. Pass the reward token address.

Total Distributed: Under Read 17. getTotalRewardsDistributed: Pass the Reward token address. This will show how many total rewards are distributed.

Total Claimable: This is usually Total Generated Rewards – Total Distributed

Total Holders Supply: Under Read 29, Pass the Reward Token address. It will return the Total Holders Supply in wei format. Convert it while displaying

Rewards Dashboard – Settings

My Rewards Overview Settings					
Buy Rewards					
Name	Min Balance Required	Share %	Claim Wait	Buyback Wait	Active
SHIB	1,000,000	30%	7 days	2 days	Yes
DOGE	1,000,000	30%	7 days	2 days	Yes
ADA	1,000,000	30%	7 days	2 days	Yes
BTC	1,000,000	30%	7 days	2 days	Yes
ETH	1,000,000	30%	7 days	2 days	Yes

Generate Rewards: When user clicks on Generate Rewards button, call the function named, generateBuybackforopen.

We can validate before calling generatebuybackforopen. If buybackwait is still not over, then we can alert user that Rewards can be generated on or after XXXXXX

Name: : As per the above screenshot, there will be number of reward token assets under Name in the table. Under Read, Function No:25 rewardAssetAt, please pass 0 in the array index, then the first reward token address by increasing index will be fetched. The contract can have maximum of 10 reward assets. We can fetch the addresses and place the names of reward tokens under “Name” column in the table.

Min Balance Required: Under Read Function 26 rewardinfo. Pass the reward token address, it gives results of minmuTokenBalanceForRewards. It will display in Wei format. Please convert it while displaying.

Share% : Under Read Function 26 rewardinfo. Pass the reward token address, it gives results of distribute share. It will display in number. Display in the UI as %.

ClaimWait: Under Read Function 26 rewardinfo. Pass the reward token address, it gives results of claimwait. It will display in minutes. Display in the UI as days.

IsActive: Under Read Function 26 rewardinfo. Pass the reward token address, it gives results of IsActive. Display in UI if True means Yes else No.

BuybackWait: If $\text{lastBuyBackTimestamp} + \text{buyBackWait} < \text{Current Time}$ then call BuybackgenrateforOpen function otherwise, alert the below msg.

Rewards already generated on “lastBuyBackTimestap”. Next Rewards Generation cycle starts from $\text{lastBuyBackTimestamp} + \text{buyBackWait}$

For example: Buybackwait is 7 days. Lastbuybacktimestamp happened on 1st June 2002, then the next buyback occurs on or after 7 days means 8th June 2002.