## [WD] Dual staking: olas service staking + bio token pseudo staking

## **Summary:**

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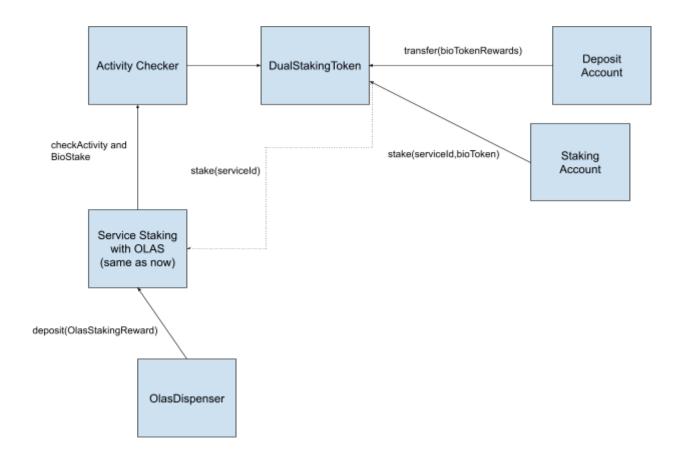
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## Dual staking contract for staking OLAS service and BIO tokens

The DualStakingToken Contract would be a coordinating contract for OLAS service and BIO tokens. The proposal is that it performs as follows:

- 1. Has a stake (serviceId) function that accepts a specified deployed service Id and amount of specified BIO tokens proportional to the OLAS staked amount.
- 2. Creates a record for the service Id, its owner and the amount of BIO tokens deposited.
- Allows anyone to send BIO tokens to fund available BIO token rewards (via regular ERC20 transfer method). Rewards in BIO are set as a ratio based on OLAS rewardsPerSecond.
- 4. Stakes service Id to a specified OLAS service staking contract.
- Activity checker for the service staking contract checks OLAS service activity as specified, plus refers to the DualStakingToken contract to check that a specified service multisig has corresponding record with staked BIO tokens.
- 6. During claim / withdraw, OLAS rewards and BIO rewards are transferred to the service Id multisig.
- 7. The checkpoint() function in the DualStakingToken Contract performs the Service Staking checkpoint.
- 8. BIO PoAA part includes the wrapping of EAS attestation calls via multisig calling the corresponding function in DualStakingToken contract.



## Implementation link

https://github.com/valory-xyz/autonolas-staking-programmes/tree/main/contracts/dual\_token