

Module `sui_system::sui_system`

Sui System State Type Upgrade Guide [SuiSystemState](#) is a thin wrapper around `SuiSystemStateInner` that provides a versioned interface. The [SuiSystemState](#) object has a fixed ID 0x5, and the `SuiSystemStateInner` object is stored as a dynamic field. There are a few different ways to upgrade the `SuiSystemStateInner` type:

The simplest and one that doesn't involve a real upgrade is to just add dynamic fields to the `extra_fields` field of `SuiSystemStateInner` or any of its sub type. This is useful when we are in a rush, or making a small change, or still experimenting a new field.

To properly upgrade the `SuiSystemStateInner` type, we need to ship a new framework that does the following:

To upgrade `Validator` type, besides everything above, we also need to:

Create a new `SuiSystemState` object and make it shared. This function will be called only once in genesis.

Can be called by anyone who wishes to become a validator candidate and starts accruing delegated stakes in their staking pool. Once they have at least `MIN_VALIDATOR_JOINING_STAKE` amount of stake they can call [request_add_validator](#) to officially become an active validator at the next epoch. Aborts if the caller is already a pending or active validator, or a validator candidate. Note: `proof_of_possession` MUST be a valid signature using `sui_address` and `protocol_pubkey_bytes`. To produce a valid PoP, run `[fn test_proof_of_possession]`.

Called by a validator candidate to remove themselves from the candidacy. After this call their staking pool becomes deactivate.

Called by a validator candidate to add themselves to the active validator set beginning next epoch. Aborts if the validator is a duplicate with one of the pending or active validators, or if the amount of stake the validator has doesn't meet the min threshold, or if the number of new validators for the next epoch has already reached the maximum.

A validator can call this function to request a removal in the next epoch. We use the sender of `ctx` to look up the validator (i.e. sender must match the `sui_address` in the validator). At the end of the epoch, the [validator](#) object will be returned to the `sui_address` of the validator.

A validator can call this entry function to submit a new gas price quote, to be used for the reference gas price calculation at the end of the epoch.

This entry function is used to set new gas price for candidate validators

A validator can call this entry function to set a new commission rate, updated at the end of the epoch.

This entry function is used to set new commission rate for candidate validators

Add stake to a validator's staking pool.

The non-entry version of [request_add_stake](#), which returns the staked SUI instead of transferring it to the sender.

Add stake to a validator's staking pool using multiple coins.

Withdraw stake from a validator's staking pool.

Convert `StakedSui` into a `FungibleStakedSui` object.

Convert `FungibleStakedSui` into a `StakedSui` object.

Non-entry version of [request_withdraw_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

Undo a [report_validator](#) action. Aborts if

Create a new `UnverifiedValidatorOperationCap`, transfer it to the validator and registers it. The original object is thus revoked.

Update a validator's name.

Update a validator's description

Update a validator's image url

Update a validator's project url

Update a validator's network address. The change will only take effects starting from the next epoch.

Update candidate validator's network address.

Update a validator's p2p address. The change will only take effects starting from the next epoch.

Update candidate validator's p2p address.

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

Update candidate validator's narwhal primary address.

Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

Update candidate validator's narwhal worker address.

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

Update candidate validator's public key of protocol key and proof of possession.

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

Update candidate validator's public key of worker key.

Update a validator's public key of network key. The change will only take effects starting from the next epoch.

Update candidate validator's public key of network key.

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

Getter returning addresses of the currently active validators.

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

Returns the voting power of the active validators, values are voting power in the scale of 10000.

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Create a new SuiSystemState object and make it shared. This function will be called only once in genesis.

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bash (package)
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bash (package)
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Can be called by anyone who wishes to become a validator candidate and starts accruing delegated stakes in their staking pool.

Once they have at least MIN\_VALIDATOR\_JOINING\_STAKE amount of stake they can call [request\\_add\\_validator](#) to officially become an active validator at the next epoch. Aborts if the caller is already a pending or active validator, or a validator candidate.

Note: proof\_of\_possession MUST be a valid signature using sui\_address and protocol\_pubkey\_bytes. To produce a valid PoP, run [fn test\_proof\_of\_possession].

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Called by a validator candidate to remove themselves from the candidacy. After this call their staking pool becomes deactivate.

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A validator can call this function to request a removal in the next epoch. We use the sender of ctx to look up the validator (i.e. sender must match the sui\_address in the validator). At the end of the epoch, the [validator](#) object will be returned to the sui\_address of the validator.

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A validator can call this entry function to submit a new gas price quote, to be used for the reference gas price calculation at the end of the epoch.

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This entry function is used to set new gas price for candidate validators

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A validator can call this entry function to set a new commission rate, updated at the end of the epoch.

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This entry function is used to set new commission rate for candidate validators

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Add stake to a validator's staking pool.

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The non-entry version of [request_add_stake](#) , which returns the staked SUI instead of transferring it to the sender.

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Add stake to a validator's staking pool using multiple coins.

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Withdraw stake from a validator's staking pool.

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Convert StakedSui into a FungibleStakedSui object.

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Convert FungibleStakedSui into a StakedSui object.

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Non-entry version of [request_withdraw_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

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Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

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Undo a [report_validator](#) action. Aborts if

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```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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```

Create a new SuiSystemState object and make it shared. This function will be called only once in genesis.

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bash (package)
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bash (package)
```

Can be called by anyone who wishes to become a validator candidate and starts accruing delegated stakes in their staking pool. Once they have at least MIN_VALIDATOR_JOINING_STAKE amount of stake they can call [request_add_validator](#) to officially become an active validator at the next epoch. Aborts if the caller is already a pending or active validator, or a validator candidate. Note: proof_of_possession MUST be a valid signature using sui_address and protocol_pubkey_bytes. To produce a valid PoP, run [fn test_proof_of_possession].

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Called by a validator candidate to remove themselves from the candidacy. After this call their staking pool becomes deactivate.

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Called by a validator candidate to add themselves to the active validator set beginning next epoch. Aborts if the validator is a duplicate with one of the pending or active validators, or if the amount of stake the validator has doesn't meet the min threshold, or if the number of new validators for the next epoch has already reached the maximum.

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A validator can call this function to request a removal in the next epoch. We use the sender of ctx to look up the validator (i.e. sender must match the sui\_address in the validator). At the end of the epoch, the [validator](#) object will be returned to the sui\_address of the validator.

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A validator can call this entry function to submit a new gas price quote, to be used for the reference gas price calculation at the end of the epoch.

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This entry function is used to set new gas price for candidate validators

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A validator can call this entry function to set a new commission rate, updated at the end of the epoch.

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This entry function is used to set new commission rate for candidate validators

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Add stake to a validator's staking pool.

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The non-entry version of [request\\_add\\_stake](#), which returns the staked SUI instead of transferring it to the sender.

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Add stake to a validator's staking pool using multiple coins.

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Withdraw stake from a validator's staking pool.

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Convert StakedSui into a FungibleStakedSui object.

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Convert FungibleStakedSui into a StakedSui object.

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'''

Non-entry version of [request\\_withdraw\\_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

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Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

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Undo a [report\\_validator](#) action. Aborts if

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Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Function

Create a new SuiSystemState object and make it shared. This function will be called only once in genesis.

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bash (package)
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```
bash (package)
```

Can be called by anyone who wishes to become a validator candidate and starts accruing delegated stakes in their staking pool. Once they have at least MIN_VALIDATOR_JOINING_STAKE amount of stake they can call [request_add_validator](#) to officially become an active validator at the next epoch. Aborts if the caller is already a pending or active validator, or a validator candidate. Note: proof_of_possession MUST be a valid signature using sui_address and protocol_pubkey_bytes. To produce a valid PoP, run [fn test_proof_of_possession].

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A validator can call this function to request a removal in the next epoch. We use the sender of ctx to look up the validator (i.e. sender must match the sui_address in the validator). At the end of the epoch, the [validator](#) object will be returned to the sui_address of the validator.

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A validator can call this entry function to submit a new gas price quote, to be used for the reference gas price calculation at the end of the epoch.

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This entry function is used to set new gas price for candidate validators

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A validator can call this entry function to set a new commission rate, updated at the end of the epoch.

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This entry function is used to set new commission rate for candidate validators

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Add stake to a validator's staking pool.

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```

The non-entry version of [request\\_add\\_stake](#) , which returns the staked SUI instead of transferring it to the sender.

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Add stake to a validator's staking pool using multiple coins.

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Withdraw stake from a validator's staking pool.

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Convert StakedSui into a FungibleStakedSui object.

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Convert FungibleStakedSui into a StakedSui object.

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Non-entry version of [request\\_withdraw\\_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

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Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

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Undo a [report\\_validator](#) action. Aborts if

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Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

'''bash

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'''bash

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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```

## Function

Can be called by anyone who wishes to become a validator candidate and starts accruing delegated stakes in their staking pool. Once they have at least MIN\_VALIDATOR\_JOINING\_STAKE amount of stake they can call [request\\_add\\_validator](#) to officially become an active validator at the next epoch. Aborts if the caller is already a pending or active validator, or a validator candidate. Note: proof\_of\_possession MUST be a valid signature using sui\_address and protocol\_pubkey\_bytes. To produce a valid PoP, run [fn test\_proof\_of\_possession].

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```

Called by a validator candidate to remove themselves from the candidacy. After this call their staking pool becomes deactivate.

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```

Called by a validator candidate to add themselves to the active validator set beginning next epoch. Aborts if the validator is a duplicate with one of the pending or active validators, or if the amount of stake the validator has doesn't meet the min threshold, or if the number of new validators for the next epoch has already reached the maximum.

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```

A validator can call this function to request a removal in the next epoch. We use the sender of ctx to look up the validator (i.e. sender must match the sui\_address in the validator). At the end of the epoch, the [validator](#) object will be returned to the sui\_address of the validator.

```
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```

A validator can call this entry function to submit a new gas price quote, to be used for the reference gas price calculation at the end of the epoch.

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```

This entry function is used to set new gas price for candidate validators

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A validator can call this entry function to set a new commission rate, updated at the end of the epoch.

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```

This entry function is used to set new commission rate for candidate validators

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```

Add stake to a validator's staking pool.

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```

The non-entry version of [request\\_add\\_stake](#) , which returns the staked SUI instead of transferring it to the sender.

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```

Add stake to a validator's staking pool using multiple coins.



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```

Withdraw stake from a validator's staking pool.

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```

Convert StakedSui into a FungibleStakedSui object.

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```

Convert FungibleStakedSui into a StakedSui object.

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```

Non-entry version of [request\\_withdraw\\_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

```
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```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

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```

Undo a [report\\_validator](#) action. Aborts if

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```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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```

Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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'''bash

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Update candidate validator's p2p address.

'''bash

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'''bash

'''

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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'''bash

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Update candidate validator's narwhal primary address.

'''bash

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'''bash

'''

Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

'''bash

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'''bash

'''

Update candidate validator's narwhal worker address.

'''bash

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'''bash

'''

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

'''bash

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'''bash

'''

Update candidate validator's public key of protocol key and proof of possession.

'''bash

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'''bash

'''

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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'''bash

'''

Update candidate validator's public key of worker key.

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'''bash

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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'''bash

'''

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

'''bash

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'''bash
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```

Getter returning addresses of the currently active validators.

```
'''bash
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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

```
'''bash
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'''bash
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'''
```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

```
'''bash
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'''bash
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```
...
```

Function

Called by a validator candidate to remove themselves from the candidacy. After this call their staking pool becomes deactivate.

```
```bash
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...
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...
```

Called by a validator candidate to add themselves to the active validator set beginning next epoch. Aborts if the validator is a duplicate with one of the pending or active validators, or if the amount of stake the validator has doesn't meet the min threshold, or if the number of new validators for the next epoch has already reached the maximum.

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```

A validator can call this function to request a removal in the next epoch. We use the sender of ctx to look up the validator (i.e. sender must match the sui_address in the validator). At the end of the epoch, the [validator](#) object will be returned to the sui_address of the validator.

```
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```

A validator can call this entry function to submit a new gas price quote, to be used for the reference gas price calculation at the end of the epoch.

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```

This entry function is used to set new gas price for candidate validators

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```

A validator can call this entry function to set a new commission rate, updated at the end of the epoch.

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```

This entry function is used to set new commission rate for candidate validators

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```

Add stake to a validator's staking pool.

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```

The non-entry version of [request_add_stake](#) , which returns the staked SUI instead of transferring it to the sender.

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```

Add stake to a validator's staking pool using multiple coins.

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```

Withdraw stake from a validator's staking pool.

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Convert StakedSui into a FungibleStakedSui object.

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```

Convert FungibleStakedSui into a StakedSui object.

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'''bash
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```

Non-entry version of [request_withdraw_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

```
```bash
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```
```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

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```

Undo a [report_validator](#) action. Aborts if

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```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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```

Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

```
'''bash
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```

Function

Called by a validator candidate to add themselves to the active validator set beginning next epoch. Aborts if the validator is a duplicate with one of the pending or active validators, or if the amount of stake the validator has doesn't meet the min threshold, or if the number of new validators for the next epoch has already reached the maximum.

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```

A validator can call this function to request a removal in the next epoch. We use the sender of ctx to look up the validator (i.e. sender must match the sui_address in the validator). At the end of the epoch, the [validator](#) object will be returned to the sui_address of the validator.

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```

A validator can call this entry function to submit a new gas price quote, to be used for the reference gas price calculation at the end of the epoch.

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```

This entry function is used to set new gas price for candidate validators

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A validator can call this entry function to set a new commission rate, updated at the end of the epoch.

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```

This entry function is used to set new commission rate for candidate validators

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Add stake to a validator's staking pool.

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```

The non-entry version of [request_add_stake](#) , which returns the staked SUI instead of transferring it to the sender.

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Add stake to a validator's staking pool using multiple coins.

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```

Withdraw stake from a validator's staking pool.

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Convert StakedSui into a FungibleStakedSui object.

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Convert FungibleStakedSui into a StakedSui object.

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```

Non-entry version of [request_withdraw_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

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```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

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```

Undo a [report_validator](#) action. Aborts if

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```bash
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```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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'''

Update candidate validator's p2p address.

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'''bash

'''

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

'''bash

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'''bash

'''

Update candidate validator's narwhal primary address.

'''bash

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'''bash

'''

Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

'''bash

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'''bash

'''

Update candidate validator's narwhal worker address.

'''bash

'''

'''bash

'''

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

'''bash

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'''bash

'''

Update candidate validator's public key of protocol key and proof of possession.

'''bash


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```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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```

Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

```
'''bash
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'''bash
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'''
```

Getter returning addresses of the currently active validators.

```
'''bash
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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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```

Function

A validator can call this function to request a removal in the next epoch. We use the sender of ctx to look up the validator (i.e. sender must match the sui_address in the validator). At the end of the epoch, the [validator](#) object will be returned to the sui_address of the validator.

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```

A validator can call this entry function to submit a new gas price quote, to be used for the reference gas price calculation at the end of the epoch.

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This entry function is used to set new gas price for candidate validators

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A validator can call this entry function to set a new commission rate, updated at the end of the epoch.

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This entry function is used to set new commission rate for candidate validators

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Add stake to a validator's staking pool.

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The non-entry version of [request_add_stake](#), which returns the staked SUI instead of transferring it to the sender.

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Add stake to a validator's staking pool using multiple coins.

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Withdraw stake from a validator's staking pool.

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Convert StakedSui into a FungibleStakedSui object.

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```

Convert FungibleStakedSui into a StakedSui object.

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```

Non-entry version of [request\\_withdraw\\_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

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```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

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Undo a [report\\_validator](#) action. Aborts if

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```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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```

Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next

epoch.

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```

Update candidate validator's public key of protocol key and proof of possession.

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```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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```

Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

```
```bash
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```

## Function

A validator can call this entry function to submit a new gas price quote, to be used for the reference gas price calculation at the end of the epoch.

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```

This entry function is used to set new gas price for candidate validators

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```

A validator can call this entry function to set a new commission rate, updated at the end of the epoch.

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```

This entry function is used to set new commission rate for candidate validators

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```

Add stake to a validator's staking pool.

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```

The non-entry version of [request\\_add\\_stake](#), which returns the staked SUI instead of transferring it to the sender.

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```

Add stake to a validator's staking pool using multiple coins.

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```

Withdraw stake from a validator's staking pool.

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Convert StakedSui into a FungibleStakedSui object.

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Convert FungibleStakedSui into a StakedSui object.

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```

Non-entry version of [request\\_withdraw\\_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

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```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

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```

Undo a [report\\_validator](#) action. Aborts if

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```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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```

Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next

epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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```

Getter returning addresses of the currently active validators.

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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

```
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```

Function

This entry function is used to set new gas price for candidate validators

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```

A validator can call this entry function to set a new commission rate, updated at the end of the epoch.

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```

This entry function is used to set new commission rate for candidate validators

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```

Add stake to a validator's staking pool.

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```

The non-entry version of [request_add_stake](#) , which returns the staked SUI instead of transferring it to the sender.

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```

Add stake to a validator's staking pool using multiple coins.

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```

Withdraw stake from a validator's staking pool.

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Convert StakedSui into a FungibleStakedSui object.

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Convert FungibleStakedSui into a StakedSui object.

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```

Non-entry version of [request_withdraw_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

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```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

```
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```

Undo a [report_validator](#) action. Aborts if

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```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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```

Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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```

Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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```

Update candidate validator's public key of protocol key and proof of possession.

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```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

```
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```

Getter returning addresses of the currently active validators.

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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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```

## Function

A validator can call this entry function to set a new commission rate, updated at the end of the epoch.

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```

This entry function is used to set new commission rate for candidate validators

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```

Add stake to a validator's staking pool.

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```

The non-entry version of [request\\_add\\_stake](#) , which returns the staked SUI instead of transferring it to the sender.

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```

Add stake to a validator's staking pool using multiple coins.

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Withdraw stake from a validator's staking pool.

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Convert StakedSui into a FungibleStakedSui object.

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Convert FungibleStakedSui into a StakedSui object.

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```

Non-entry version of [request\\_withdraw\\_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

```
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```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

```
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Undo a [report\\_validator](#) action. Aborts if

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```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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```

Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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...
```

Update a validator's p2p address. The change will only take effects starting from the next epoch.

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Update candidate validator's p2p address.

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

```
```bash
```

```
...
```

```
```bash
```

'''

Update candidate validator's narwhal primary address.

'''bash

'''

'''bash

'''

Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

'''bash

'''

'''bash

'''

Update candidate validator's narwhal worker address.

'''bash

'''

'''bash

'''

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

'''bash

'''

'''bash

'''

Update candidate validator's public key of protocol key and proof of possession.

'''bash

'''

'''bash

'''

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

'''bash

'''

'''bash

'''

Update candidate validator's public key of worker key.

'''bash



```
'''
```

```
'''bash
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```
'''
```

Update a validator's public key of network key. The change will only take effects starting from the next epoch.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Update candidate validator's public key of network key.

```
'''bash
```

```
'''
```

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'''bash
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'''bash
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```
'''bash
```

```
'''
```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Getter returning addresses of the currently active validators.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

```
'''bash
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'''bash
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```bash
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```
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```

```
```bash
```

```
```
```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

## Function

This entry function is used to set new commission rate for candidate validators

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Add stake to a validator's staking pool.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

The non-entry version of [request\\_add\\_stake](#), which returns the staked SUI instead of transferring it to the sender.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Add stake to a validator's staking pool using multiple coins.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Withdraw stake from a validator's staking pool.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Convert StakedSui into a FungibleStakedSui object.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Convert FungibleStakedSui into a StakedSui object.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Non-entry version of [request\\_withdraw\\_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Undo a [report\\_validator](#) action. Aborts if

```
```bash
```

'''

'''bash

'''

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

'''bash

'''

'''bash

'''

Update a validator's name.

'''bash

'''

'''bash

'''

Update a validator's description

'''bash

'''

'''bash

'''

Update a validator's image url

'''bash

'''

'''bash

'''

Update a validator's project url

'''bash

'''

'''bash

'''

Update a validator's network address. The change will only take effects starting from the next epoch.

'''bash

'''

'''bash

'''

Update candidate validator's network address.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Update a validator's p2p address. The change will only take effects starting from the next epoch.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Update candidate validator's p2p address.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

```
```bash
```

```
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```

```
```bash
```

```
```
```

Update candidate validator's narwhal primary address.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Update candidate validator's narwhal worker address.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Update candidate validator's public key of protocol key and proof of possession.

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Update candidate validator's public key of worker key.

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Update a validator's public key of network key. The change will only take effects starting from the next epoch.

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Update candidate validator's public key of network key.

```
```bash
```

```
...
```

```
```bash
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```

```
```bash
```

```
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```

```
```bash
```

```
'''
```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Getter returning addresses of the currently active validators.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

```
'''bash
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'''bash
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```

```
'''bash
```

```
'''
```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Function

Add stake to a validator's staking pool.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

The non-entry version of [request_add_stake](#), which returns the staked SUI instead of transferring it to the sender.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Add stake to a validator's staking pool using multiple coins.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Withdraw stake from a validator's staking pool.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Convert StakedSui into a FungibleStakedSui object.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Convert FungibleStakedSui into a StakedSui object.

```
```bash
```

```
```
```

```
```bash
```



'''

Non-entry version of [request\\_withdraw\\_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

'''bash

'''

'''bash

'''

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

'''bash

'''

'''bash

'''

Undo a [report\\_validator](#) action. Aborts if

'''bash

'''

'''bash

'''

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

'''bash

'''

'''bash

'''

Update a validator's name.

'''bash

'''

'''bash

'''

Update a validator's description

'''bash

'''

'''bash

'''

Update a validator's image url

'''bash

'''

```
```bash
```

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```
```

Update a validator's project url

```
```bash
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```

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```bash
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```
```
```

Update a validator's network address. The change will only take effects starting from the next epoch.

```
```bash
```

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```
```bash
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```
```
```

Update candidate validator's network address.

```
```bash
```

```
```
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```
```bash
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```
```
```

Update a validator's p2p address. The change will only take effects starting from the next epoch.

```
```bash
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```bash
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```
```
```

Update candidate validator's p2p address.

```
```bash
```

```
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```bash
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```
```
```

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

```
```bash
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```
```bash
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```
```
```

Update candidate validator's narwhal primary address.

```
```bash
```

```
'''
```

```
'''bash
```

```
'''
```

Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

```
'''bash
```

```
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```

```
'''bash
```

```
'''
```

Update candidate validator's narwhal worker address.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Update candidate validator's public key of protocol key and proof of possession.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Update candidate validator's public key of worker key.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Update a validator's public key of network key. The change will only take effects starting from the next epoch.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Update candidate validator's public key of network key.

```
'''bash
```

```
'''
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'''bash
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'''
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'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Getter returning addresses of the currently active validators.

```
'''bash
```

```
'''
```

```
'''bash
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```
'''
```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

```
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'''bash
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```
'''
```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Function

The non-entry version of [request_add_stake](#) , which returns the staked SUI instead of transferring it to the sender.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Add stake to a validator's staking pool using multiple coins.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Withdraw stake from a validator's staking pool.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Convert StakedSui into a FungibleStakedSui object.

```
```bash
```

```
```
```

```
```bash
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```
```
```

Convert `FungibleStakedSui` into a `StakedSui` object.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Non-entry version of [request_withdraw_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Undo a [report_validator](#) action. Aborts if

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Create a new `UnverifiedValidatorOperationCap`, transfer it to the validator and registers it. The original object is thus revoked.

```
```bash
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```
```bash
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```
```
```

Update a validator's name.

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```bash
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```
```bash
```

```
```
```

Update a validator's description

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```bash
```

```
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```

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```bash
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```
...
```

Update a validator's image url

```
```bash
```

```
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```
```bash
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```
...
```

Update a validator's project url

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```bash
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```
```bash
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```
...
```

Update a validator's network address. The change will only take effects starting from the next epoch.

```
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```bash
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```

Update candidate validator's network address.

```
```bash
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...
```

Update a validator's p2p address. The change will only take effects starting from the next epoch.

```
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...
```

```
```bash
```

```
...
```

Update candidate validator's p2p address.

```
```bash
```

```
...
```

```
```bash
```

'''

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

'''bash

'''

'''bash

'''

Update candidate validator's narwhal primary address.

'''bash

'''

'''bash

'''

Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

'''bash

'''

'''bash

'''

Update candidate validator's narwhal worker address.

'''bash

'''

'''bash

'''

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

'''bash

'''

'''bash

'''

Update candidate validator's public key of protocol key and proof of possession.

'''bash

'''

'''bash

'''

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

'''bash


```
'''
```

```
'''bash
```

```
'''
```

Update candidate validator's public key of worker key.

```
'''bash
```

```
'''
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'''bash
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```
'''
```

Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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'''bash
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'''
```

Update candidate validator's public key of network key.

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'''
```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

```
'''bash
```

```
'''
```

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'''bash
```

```
'''
```

Getter returning addresses of the currently active validators.

```
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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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'''
```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Function

Add stake to a validator's staking pool using multiple coins.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Withdraw stake from a validator's staking pool.

```
'''bash
```

```
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```

Convert StakedSui into a FungibleStakedSui object.

```
```bash
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```
```

Convert FungibleStakedSui into a StakedSui object.

```
```bash
```

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```

```
```bash
```

```
```
```

Non-entry version of [request_withdraw_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

```
```bash
```

```
```
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```
```bash
```

```
```
```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

```
```bash
```

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```
```

Undo a [report_validator](#) action. Aborts if

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

```
```bash
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```
```
```

```
```bash
```

```
```
```

Update a validator's name.

```
```bash
```

'''

'''bash

'''

Update a validator's description

'''bash

'''

'''bash

'''

Update a validator's image url

'''bash

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'''bash

'''

Update a validator's project url

'''bash

'''

'''bash

'''

Update a validator's network address. The change will only take effects starting from the next epoch.

'''bash

'''

'''bash

'''

Update candidate validator's network address.

'''bash

'''

'''bash

'''

Update a validator's p2p address. The change will only take effects starting from the next epoch.

'''bash

'''

'''bash

'''

Update candidate validator's p2p address.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Update candidate validator's narwhal primary address.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

```
```bash
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```
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```
```bash
```

```
```
```

Update candidate validator's narwhal worker address.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Update candidate validator's public key of protocol key and proof of possession.

```
```bash
```

```
```
```

```
```bash
```

```
'''
```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Update candidate validator's public key of worker key.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Update a validator's public key of network key. The change will only take effects starting from the next epoch.

```
'''bash
```

```
'''
```

```
'''bash
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```
'''
```

Update candidate validator's public key of network key.

```
'''bash
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'''
```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

```
'''bash
```

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```

Getter returning addresses of the currently active validators.

```
'''bash
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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

```
'''bash
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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Function

Withdraw stake from a validator's staking pool.

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Convert StakedSui into a FungibleStakedSui object.

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```

Convert FungibleStakedSui into a StakedSui object.

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```

Non-entry version of [request_withdraw_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

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```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

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Undo a [report_validator](#) action. Aborts if

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```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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```

Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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```

Update candidate validator's public key of protocol key and proof of possession.

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```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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```

Update candidate validator's public key of worker key.

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```

Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

```
'''bash
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```

Getter returning addresses of the currently active validators.

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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

```
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```

## Function

Convert StakedSui into a FungibleStakedSui object.

```
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```
```
```

Convert FungibleStakedSui into a StakedSui object.

```
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```

'''

'''bash

'''

Non-entry version of [request_withdraw_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

'''bash

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'''bash

'''

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

'''bash

'''

'''bash

'''

Undo a [report_validator](#) action. Aborts if

'''bash

'''

'''bash

'''

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

'''bash

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'''bash

'''

Update a validator's name.

'''bash

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'''bash

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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```

Update a validator's network address. The change will only take effects starting from the next epoch.

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```

Update candidate validator's network address.

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```

Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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```

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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```

Update candidate validator's public key of protocol key and proof of possession.

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```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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'''bash
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```

Getter returning addresses of the currently active validators.

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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

```
'''bash
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```
'''
```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

```
'''bash
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```

## Function

Convert FungibleStakedSui into a StakedSui object.

```
'''bash
```

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```

```
'''bash
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```
'''
```

Non-entry version of [request\\_withdraw\\_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

```
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'''
```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

```
'''bash
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```

```
'''bash
```

'''

Undo a [report\\_validator](#) action. Aborts if

'''bash

'''

'''bash

'''

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

'''bash

'''

'''bash

'''

Update a validator's name.

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'''bash

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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'''

Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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```

Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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```

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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```

Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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```

Update candidate validator's narwhal worker address.

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'''

'''bash

'''

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

'''bash

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'''bash

'''

Update candidate validator's public key of protocol key and proof of possession.

'''bash

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'''bash

'''

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

'''bash

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Update candidate validator's public key of worker key.

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'''

Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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```

Function

Non-entry version of [request_withdraw_stake](#) that returns the withdrawn SUI instead of transferring it to the sender.

```
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```
```

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

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```

Undo a [report_validator](#) action. Aborts if

```
```bash
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```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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```

Update a validator's network address. The change will only take effects starting from the next epoch.

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```

Update candidate validator's network address.

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```

Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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```

Update candidate validator's public key of protocol key and proof of possession.

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```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

```
'''bash
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'''
```

Getter returning addresses of the currently active validators.

```
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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

```
```bash
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```
```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

```
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```bash
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```

## Function

Report a validator as a bad or non-performant actor in the system. Succeeds if all the following are satisfied:

```
```bash
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```bash
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```

Undo a [report\\_validator](#) action. Aborts if

```
```bash
```

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```
```bash
```

'''

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

'''bash

'''

'''bash

'''

Update a validator's name.

'''bash

'''

'''bash

'''

Update a validator's description

'''bash

'''

'''bash

'''

Update a validator's image url

'''bash

'''

'''bash

'''

Update a validator's project url

'''bash

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'''bash

'''

Update a validator's network address. The change will only take effects starting from the next epoch.

'''bash

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'''bash

'''

Update candidate validator's network address.

'''bash

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```

Update a validator's p2p address. The change will only take effects starting from the next epoch.

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```

Update candidate validator's p2p address.

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```

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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```

Update candidate validator's narwhal primary address.

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```

Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

```
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```

Update candidate validator's public key of protocol key and proof of possession.

```
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```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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```

Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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```

Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

```
'''bash
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'''bash
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'''
```

Getter returning addresses of the currently active validators.

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```

This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Function

Undo a [report_validator](#) action. Aborts if

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```

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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```

## Function

Create a new UnverifiedValidatorOperationCap, transfer it to the validator and registers it. The original object is thus revoked.

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Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's project url

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Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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```

Update candidate validator's public key of protocol key and proof of possession.

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```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Function

Update a validator's name.

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Update a validator's description

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Update a validator's image url

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Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.


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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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```

Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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```

Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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## Function

Update a validator's description

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Update a validator's image url

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Update a validator's project url

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Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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```

Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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```

Update candidate validator's public key of protocol key and proof of possession.

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```

Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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```

Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Function

Update a validator's image url

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Update a validator's project url

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Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.


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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Function

Update a validator's project url

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Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next

epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Function

Update a validator's network address. The change will only take effects starting from the next epoch.

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Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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## Function

Update candidate validator's network address.

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Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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```

Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Function

Update a validator's p2p address. The change will only take effects starting from the next epoch.

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Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Function

Update candidate validator's p2p address.

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Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Function

Update a validator's narwhal primary address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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This function should be called at the end of an epoch, and advances the system to the next epoch. It does the following things:

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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## Function

Update candidate validator's narwhal primary address.

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Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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```

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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## Function

Update a validator's narwhal worker address. The change will only take effects starting from the next epoch.

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Update candidate validator's narwhal worker address.

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Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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Function

Update candidate validator's narwhal worker address.

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Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Returns the voting power of the active validators, values are voting power in the scale of 10000.

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Saves the given execution time estimate blob to the SuiSystemState object, for system use at the start of the next epoch.

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Function

Update a validator's public key of protocol key and proof of possession. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of protocol key and proof of possession.

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Update a validator's public key of worker key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Getter of the pool token exchange rate of a staking pool. Works for both active and inactive pools.

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Getter returning addresses of the currently active validators.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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Update candidate validator's public key of worker key.

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Update a validator's public key of network key. The change will only take effects starting from the next epoch.

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Update candidate validator's public key of network key.

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