

LendingLedger

Third-party lending markets call `sync_ledger` on [LendingLedger](#) every time a user deposits or withdraws cNOTE. This enables Neofinance Coordinator to continuously track lending balances and allocate incentives accordingly.

Additionally, users claim incentives from `LendingLedger`. This should be facilitated by a claiming interface on the lending market.

Syncing Ledger

To sync the ledger, call the `sync_ledger(address _lender, int256 _delta)` method. The address is that of the user (liquidity provider) and the `int256` is the amount of cNOTE deposited (positive) or withdrawn (negative) with 18 decimal places of precision.

Important: The `sync_ledger` method reverts if the caller is not a whitelisted lending market. As a result, this method should be wrapped in a try-catch block to ensure liquidity providers can still deposit/withdraw if a market is removed from the whitelist.

ethers.js

```
...
```

```
Copy await LendingLedger.sync_ledger(0x..., 1000000000000000000) // 10 cNOTE deposit
```

```
...
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foundry

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```
Copy cast send --ledger 0x... "sync_ledger(address,int256)" 0x... 1000000000000000000
```

```
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```

Claiming

To claim incentives, call the `claim(address _market)` method. Previously, incentives could only be claimed for past epochs; however, incentives are now claimed for all epochs including partial incentives for the current epoch.

ethers.js

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```
Copy await LendingLedger.claim(0x...) // Claim all incentives
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foundry

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```
Copy cast send --ledger 0x... "claim(address)" 0x...
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Secondary Rewards

Third-party lending markets can use `LendingLedger`'s deposit tracking to implement secondary token rewards, e.g. lending market governance tokens.

Within the `userInfo` mapping, lending market addresses map to user addresses, which in turn map to `UserInfo` structs. `UserInfo.secRewardDebt` is the amount of secondary rewards the user is entitled to.

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