

RariFund Ethereum API Documentation

Welcome to the API docs for **RariFundManager** and **RariFundToken**, the smart contracts behind Rari Capital's quantitative fund. You can find out more about Rari at <http://rari.capital>.

uint256 RariFundToken.balanceOf(address account)

Returns the amount of RFT owned by **account**.

Parameters:

- **account** (address) - The account whose balance we are calculating.

uint256 RariFundManager.usdBalanceOf(address account)

Returns an account's total balance in USD (scaled by 1e18).

Parameters:

- **account** (address) - The account whose balance we are calculating.

Development notes:

- *Ideally, we can add the view modifier, but Compound's `getUnderlyingBalance` function (called by `getRawTotalBalance`) potentially modifies the state.*

uint256 RariFundManager.getCombinedUsdBalance()

Returns the fund's raw total balance (investor funds + unclaimed fees) of the specified currency.

Development notes:

- *Ideally, we can add the view modifier, but Compound's `getUnderlyingBalance` function (called by `getRawTotalBalance`) potentially modifies the state.*

bool RariFundManager.deposit(string currencyCode, uint256 amount)

Deposits funds to RariFund in exchange for RFT.

Please note that you must approve RariFundManager to transfer of the necessary amount of tokens.

Parameters:

- **currencyCode** (string): The current code of the token to be deposited.
- **amount** (uint256): The amount of tokens to be deposited.

Return value: Boolean indicating success.

bool RariFundManager.withdraw(string currencyCode, uint256 amount)

Withdraws funds from RariFund in exchange for RFT.

Please note that you must approve `RariFundManager` to burn of the necessary amount of RFT.

Parameters:

- **currencyCode** (string): The current code of the token to be deposited.
- **amount** (uint256): The amount of tokens to be deposited.

Return value: Boolean indicating success.

uint256 `RariFundManager.countPendingWithdrawals(string currencyCode)`

Returns the number of pending withdrawals in the queue of the specified currency.

Parameters:

- **currencyCode** (string): The current code of the pending withdrawals.

uint256 `RariFundManager.getPendingWithdrawalPayee(string currencyCode, uint256 index)`

Returns the payee of a pending withdrawal of the specified currency.

Parameters:

- **currencyCode** (string): The current code of the pending withdrawals.
- **index** (uint256): The index of the pending withdrawal.

uint256 `RariFundManager.getPendingWithdrawalAmount(string currencyCode, uint256 index)`

Returns the amount of a pending withdrawal of the specified currency.

Parameters:

- **currencyCode** (string): The current code of the pending withdrawals.
- **index** (uint256): The index of the pending withdrawal.

uint256 `RariFundManager.getTotalBalance(string currencyCode)`

Returns the fund's total investor balance (combined balance of all users of the fund; unlike `getRawTotalBalance`, excludes unclaimed interest fees) of the specified currency.

Development notes:

- *Ideally, we can add the view modifier, but Compound's `getUnderlyingBalance` function (called by `getRawTotalBalance`) potentially modifies the state.*

uint256 `RariFundManager.getRawInterestAccrued(string currencyCode)`

Returns the raw total amount of interest accrued by the fund as a whole (including the fees paid on interest).

Parameters:

- **currencyCode** (string): The currency code of the interest to be calculated.

Development notes:

- *Ideally, we can add the view modifier, but Compound's `getUnderlyingBalance` function (called by `getRawTotalBalance`) potentially modifies the state.*

uint256 RariFundManager.getInterestAccrued(string currencyCode)

Returns the amount of interest accrued by investors (excluding the fees taken on interest).

Parameters:

- **currencyCode** (string): The currency code of the interest to be calculated.

Development notes:

- *Ideally, we can add the view modifier, but Compound's `getUnderlyingBalance` function (called by `getRawTotalBalance`) potentially modifies the state.*

uint256 RariFundManager.getCombinedUsdInterestAccrued()

Returns the amount of interest accrued by investors across all currencies in USD (scaled by $1e18$).

Development notes:

- *Ideally, we can add the view modifier, but Compound's `getUnderlyingBalance` function (called by `getRawTotalBalance`) potentially modifies the state.*

uint256 RariFundManager.getInterestFeesGenerated(string currencyCode)

Returns the amount of interest fees accrued by beneficiaries.

Parameters:

- **currencyCode** (string): The currency code of the interest fees to be calculated.

Development notes:

- *Ideally, we can add the view modifier, but Compound's `getUnderlyingBalance` function (called by `getRawTotalBalance`) potentially modifies the state.*