

Rari Capital 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 www.rari.capital.

uint256 RariFundToken.balanceOf(address account)

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

Parameters:

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

uint256 RariFundManager.balanceOf(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 `getRawFundBalance`) potentially modifies the state.*

bool RariFundManager.isCurrencyAccepted(string currencyCode)

Returns a boolean indicating if deposits in **currencyCode** are currently accepted.

Parameters:

- **currencyCode** (string): The currency code to check.

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 currency 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- `currencyCode` (string): The currency code of the token to be withdrawn.
- `amount` (uint256): The amount of tokens to be withdrawn.

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 currency 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 currency code of the pending withdrawal.
- `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 currency code of the pending withdrawal.
- `index` (uint256): The index of the pending withdrawal.

uint256 `RariFundManager.getFundBalance()`

Returns the fund's total investor balance (all RFT holders' funds but not unclaimed fees or pending withdrawals) of all currencies in USD (scaled by 1e18).

Development notes:

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

int256 `RariFundManager.getInterestAccrued()`

Returns the total amount of interest accrued by past and current RFT holders (excluding the fees paid on interest) in USD (scaled by 1e18).

Development notes:

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

uint256 RariFundManager.getInterestFeeRate()

Returns the fee rate on interest.

int256 RariFundManager.getInterestFeesGenerated()

Returns the amount of interest fees accrued by beneficiaries in USD (scaled by 1e18).

Development notes:

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

int256 RariFundManager.getRawInterestAccrued()

Returns the raw total amount of interest accrued by the fund as a whole (including the fees paid on interest) in USD (scaled by 1e18).

Development notes:

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

uint256 RariFundManager.getRawFundBalance()

Returns the fund's raw total balance (all RFT holders' funds + all unclaimed fees + all pending withdrawals) of all currencies in USD (scaled by 1e18).

Development notes:

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