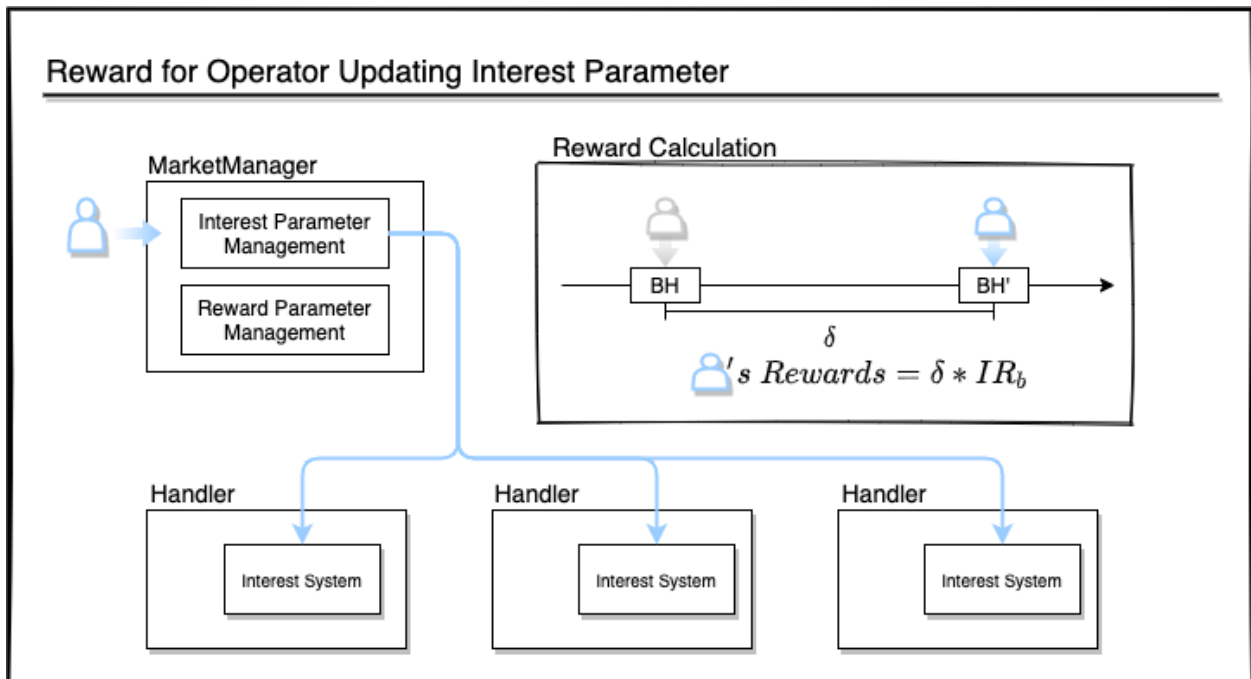# (ENG) Appendix II: Reward Method for Interest Parameter Update

1. Overview

BiFi Smart Contract has operations function that anyone can call to update the Interest Parameter of all Handlers. More often the Interest Parameter is updated, more accurate the interest rate calculation model gets to "per block compounding". To incentivize this, BiFi rewards SI Tokens to anyone who calls the function to update the interest parameter (referred to as operators).

1.1 Terminology

Variables

- IR_b: Reward allocated per block for updating the Interest Parameter

- R_{op}: Reward distributed to each operator for calling the update function

- H_L: Block height of the last block where update function was called

- H_C: Block height of the current block

2. Reward for Updating Interest Parameter

Operator who calls the function to update the Interest Parameter is rewarded SI Tokens relative to the time elapsed since the last time the function was called.

Reward Calculation and Distribution Process

1. Calculate the reward amount: $R_{op} = (H_L - H_C) * IR_b$

2. Update the block height variable: $H_L = H_C$

3. Reward R_{op} number of SI Tokens to `msg.sender`