



February 2, 2025

## AI Agent Swap Rules

### 1. Swap Positions IFF

a.  $T = APR_2 - APR_1 > \frac{52F}{X}$

i.  $F = Fee = 0.2\%$

ii.  $X = Target\ Recoup\ Weeks = 10$

iii.  $APR_2 = \frac{T}{T+V} \times APR_{new}$

b. Double required swap APR-difference for each swap that has occurred in the last  $X$  weeks.

i.  $T = 1.04\%$

ii.  $T = 2.08\%$  for swap #2 in 10 weeks

iii.  $T = 4.16\%$  for swap #3 in 10 weeks...

c. Example

Market	Utilization	Net Earn APR	Net Borrow APR	Total Earning	Total Borrowing
<b>Ether</b> ETH - Arbitrum	83.79%	1.86%	1.73%	\$26.08M	\$21.85M
<b>Tether</b> USDT - Arbitrum	89.07%	5.89%	5.14%	\$29.11M	\$25.93M
<b>USD Coin (Bridged)</b> USDCe - Arbitrum	90.77%	6.30%	7.60%	\$808.42K	\$733.86K
<b>USD Coin</b> USDC - Arbitrum	91.38%	9.69%	9.35%	\$34.55M	\$31.57M

i.

1.  $V = \$1M$  in USDT Vault; earning 5.89%

ii.  $\frac{34.55}{34.55+1} \times 9.69\% - 5.14\% = 9.417\% - 5.14\% = 4.277\% > 1.04\% = True$

1. Swap for USDC Vault!