RAGE Protocol - Whitepaper

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Table of Contents

Introduction

Foundation & Concepts

- The Tokens
- HESTIA's strength
- Key Metrics
- Active Supply
- Segregated Backing System

The Rage Buying Protocol (RBP)

- Invest function
- Mint Rage function
- Refund function
- Reserve claim function
- Claim function
- Schedule Overview

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How the Conversion Math Works
How RAGE Increases Its Backing
How RAGE Decreases Its Backing
How RAGE Will Process Refunds
How URM Ecosystem will Support RAGE
The RAGE Flywheel
How RAGE Trading Works
How RAGE Option Trading Works

The Rage Chaos Engine (RCE)

Mint and allowance
The Rage Chaos Engine Pool
Stack Underlying function
Pool Boost function
Rage Crush function

setConfigs functions

Rage Buying Protocol
Rage Chaos Engine

Introduction

RAGE Protocol re-imagines the MicroStrategy and ETH Strategy investment strategies through an innovative buying protocol that systematically builds treasury value over time. The buying protocol drives demand that increases the underlying HESTIA and ULTRAROUND asset values, which raises RAGE's fair value. Combined with yield-generating pTokens, asset decline protection, delayed claim mechanisms, accretive dilution, RAGE creates a self-reinforcing economic model.

FOUNDATION & CONCEPTS

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The Tokens

Note: All tokens in the RAGE Protocol ecosystem are deployed on the Base blockchain.

RAGE - The main token that represents ownership of HESTIA and ULTRAROUND. At launch, each RAGE token is backed by $8.00 worth of HESTIA (80%) and $2.00 worth of ULTRAROUND (20%), but the value and ratio will change over time as the underlying assets grow or shrink.

HESTIA - A deflationary token paired to USDC that already burned 45% of its supply. HESTIA attempts to create true deflationary mechanics that actually translate into price appreciation over time.

ULTRAROUND - A deflationary token paired to ETH that already burned 17% of its supply. ULTRAROUND is a volatile token that follows the broader crypto market movements, where every transaction fuels its deflationary mechanism.

pHestia and pCircle - These are special "wrapped" versions of HESTIA and ULTRAROUND created by Peapods Finance. They automatically generate extra yield by "farming market volatility" - essentially making money from price swings in the market.

HESTIA's strength

HESTIA serves as RAGE's primary backing asset (80% of value) with two key advantages:

- **Constant Deflation:** HESTIA is designed as a continuously deflationary token where systematic supply reduction directly translates into price appreciation over time
- **USDC Pairing Advantage:** Paired to USDC rather than volatile assets, allowing HESTIA's deflationary mechanics to work more predictably without external market interference

The Hestia Chaos Engine (HCE)

The HCE manages HESTIA's deflationary mechanics by accumulating USDC reserves through trading fees and liquidity pool management. These reserves are used to buy and burn HESTIA tokens, creating deflationary pressure while providing price support. During market uptrends, the system can regenerate the liquidity pool to support increased trading activity.

Key Metrics

FMV (Fair Market Value): The theoretical "fair price" of RAGE calculated by dividing the total monetary value of all active pHestia and pCircle backing assets by the total number of active RAGE tokens in existence. This represents what RAGE should be worth based on its underlying

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assets.

Treasury value: The actual total value of all backing assets (pHestia and pCircle) held by the contract. This value grows over time through yield generation, bonuses, and burns, and represents the collective wealth backing all active RAGE tokens.

Backing per Share: The actual quantity of underlying tokens backing each RAGE token at the current target ratio (80% HESTIA, 20% ULTRAROUND by value). This metric represents the protocol's core goal: continuously increasing the amount of underlying assets that back each RAGE token.

Active Supply

The **Active Supply** is a metric that represents the actual number of RAGE tokens that have a claim on the protocol's backing assets. This differs from the total circulating supply as it excludes tokens that do not participate in backing calculations.

Excluded from Active Supply:

- **RCE Balance:** RAGE tokens held in the Rage Chaos Engine contract are reserved for protocol operations and do not claim backing
- **RCE Pool NFT Holdings:** RAGE tokens in the RAGE/USDC liquidity pool NFT position are providing liquidity and therefore excluded from backing claims until they are bought
- **Multisig Balance:** RAGE tokens in the multisig wallet are reserved for ecosystem development and do not participate in backing calculations

Segregated Backing System

The contract maintains separate accounting for two types of backing assets using different tokens:

- **Pending Backing:** HESTIA and ULTRAROUND tokens from investments that haven't been converted to RAGE tokens yet (NFT receipts)
- **Active Backing:** pHestia and pCircle tokens that back existing RAGE tokens in circulation

When RAGE tokens are minted, the HESTIA and ULTRAROUND from pending backing get converted to pHestia and pCircle and moved to active backing. This token-based segregation makes accounting simpler and clearer. Only active backing (pHestia and pCircle) is used for FMV calculations and conversion math, ensuring accurate pricing and preventing dilution from outstanding NFT receipts.

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CORE MECHANICS

The Rage Buying Protocol (RBP)

This is the main public facing smart contract with 5 key functions:

Invest function

What you do: Send USDC to the contract (minimum $10, maximum $10,000)

What happens:

1. 80% of your USDC buys HESTIA tokens
2. 20% of your USDC buys ULTRAROUND tokens (through ETH)
3. You get a 5% bonus on each token at their respective ratios (80% HESTIA, 20% ULTRAROUND) from ecosystem supply that covers the 1% Peapods wrapping fees and provides a net benefit. For example, on a $100 investment, you receive $4.00 worth of additional HESTIA and $1.00 worth of additional ULTRAROUND.
4. Your tokens are stored in **pending assets** as HESTIA and ULTRAROUND
5. You receive an NFT receipt that shows:
   - How much you invested
   - How many **HESTIA and ULTRAROUND** tokens you own
   - When you can claim RAGE (after 3 days)
   - When Asset Decline Protection becomes available (after 60 days) and its percentage (80%)
   - When you can get a 85% refund (after 1000 days)
   - The refund percentage applicable to this investment
   - The investor bonus percentage that was applied to this investment
6. The ecosystem receives another 5% bonus distributed across both tokens at their respective ratios (80% HESTIA, 20% ULTRAROUND) added to the **active assets** (this benefits all RAGE holders).

Note: An alternative invest function will also exist for those providing ETH instead of USDC.

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Referral System: When making an investment, users can optionally specify a referrer address. This referrer address will be permanently recorded in the NFT receipt for tracking purposes. The smart contract itself does not distribute any rewards to referrers - all referral incentives and rewards are managed through external mechanisms outside the contract's scope.

Mint Rage function

What you do: Submit your NFT receipt (after 3 days from investment)

What happens:

1. Convert your HESTIA and ULTRAROUND tokens to pHestia and pCircle versions and move them from **pending assets** to **active assets**
2. Calculate how many RAGE tokens you should get using the converted pHestia and pCircle amounts (using getRageFromAssets function)
3. If your NFT is at least 60 days old, calculate how many RAGE tokens you would get using 80% of your original USDC investment - this is called Asset Decline Protection (using getRageFromUsdc function)
4. Compare both calculations and use whichever gives you more RAGE tokens (Asset Decline Protection only available after 60 days)
5. Mint and send the RAGE tokens to you
6. Destroy your NFT receipt

Refund function

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What you do: Submit your NFT receipt (after 1000 days)

What happens:

1. Sell your HESTIA and ULTRAROUND tokens (from pending assets) to USDC
2. Verify the contract has enough USDC reserves to cover any shortfall from the sale
3. Receive 85% of your original USDC investment (you forfeit any potential RAGE tokens)
4. Your NFT receipt is destroyed

Reserve claim function

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What you do: Choose how many RAGE tokens you want to cash out

What happens:

1. Calculate your HESTIA and ULTRAROUND entitlement **from active assets** (using getAssetsFromRage function). A 5% claim exit fee is then deducted from your entitlement. The deducted amount stays in the contract to benefit all RAGE holders.
2. The contract stores your claim reservation internally with:
   - The calculated HESTIA and ULTRAROUND amounts
   - The number of RAGE tokens to be burned
   - The claim validity window (starts after 30 days with a 10-day validity period)
3. Your RAGE tokens remain in your wallet until the actual claim execution

Claim function

What you do: Execute your reserved claim with the exact amount of RAGE tokens specified in your reservation (within the 10-day validity window starting 30 days after reservation)

What happens:

1. Verify your RAGE tokens match exactly what was specified in your reservation
2. **Asset Recalculation:** The system recalculates the current asset value you're entitled to (using getAssetsFromRage function) and compares it to what's stored in your reservation. You receive the lowest amount between these two calculations. Additionally, a 5% claim exit fee applies to all claims and stays in the contract to benefit all remaining RAGE holders.
3. Convert the pHestia and pCircle from active assets back to HESTIA and ULTRAROUND
4. Burn your RAGE tokens
5. Receive your HESTIA and ULTRAROUND tokens
6. Clear your claim reservation from the contract's state

Schedule Overview

- **Day 0:** Invest USDC → Receive NFT receipt
- **Day 3+:** Mint RAGE tokens from your NFT receipt
- **After minting RAGE:** Reserve claims anytime (one claim per wallet at a time)
- **Day 60+ (from investment):** Asset Decline Protection becomes available for NFT

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conversion to RAGE

- **30 days after each claim reservation:** Execute claims (with 10-day validity window)
- **Day 1000+:** Request 85% USDC refund (alternative to minting RAGE)

How the Conversion Math Works

Important: All conversion calculations use only the **active backing** (pHestia and pCircle tokens) and active RAGE supply. Pending backing from outstanding NFT receipts is excluded to ensure accurate pricing and prevent dilution.

The system uses three important calculation functions to determine fair exchanges:

Converting Assets to RAGE (getRageFromAssets)

When you're minting new RAGE tokens from pHestia and pCircle:

The system:

1. Looks up current prices for HESTIA and ULTRAROUND
2. Calculates the monetary value of your pHestia and pCircle
3. Figures out what percentage of the active backing by monetary value you're adding
4. Gives you the same percentage of new RAGE tokens from the active supply

Converting USDC to RAGE (getRageFromUsdc)

When calculating Asset Decline Protection during MINT RAGE:

The system:

1. Takes the USDC amount
2. Compares this USDC value to the total monetary value of the active backing
3. Calculates what percentage of the active backing this USDC amount represents
4. Gives the same percentage of RAGE tokens from the active supply

Converting RAGE to Assets (getAssetsFromRage)

When you're claiming pHestia and pCircle from RAGE tokens:

The system:

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1. Looks up current prices for HESTIA and ULTRAROUND
2. Calculates what percentage of active RAGE supply you're burning
3. Gives you the same percentage of the contract's active backing holdings by monetary value (not by token amounts)

How RAGE Increases Its Backing

1. **Automatic Yield Generation:** The pHestia and pCircle tokens automatically grow in value by farming market volatility through Peapods Finance
2. **Sell Pressure on the Pool:** When traders sell RAGE to the pool, these tokens move from active supply to the excluded pool position, concentrating backing for remaining holders as fewer tokens claim the same backing value
3. **Investment Bonuses:** Every time someone invests, the system adds a 5% bonus distributed across both tokens at their ratios (80% HESTIA, 20% ULTRAROUND) to the investor and another 5% bonus distributed at the same ratios to the active backing that benefits existing RAGE holders
4. **Claims Increase Backing:** ALL claims increase backing for remaining RAGE tokens. When users claim their RAGE tokens, a 5% claim exit fee applies to all claims. The fee stays in the contract, continuously increasing the backing value for all remaining RAGE holders.
5. **Delayed Claims:** When you cash out, you only get the value from when you made your claim reservation (30+ days ago), not the current higher value
6. **Shared Ecosystem Benefits:** The Peapods wrap and unwrap fees are not lost but are shared across the entire ecosystem (Mine, Temple, RAGE), creating cross-protocol value flow.

How RAGE Decreases Its Backing

- **Asset Decline Protection:** When users mint RAGE tokens after 60 days using the 80% USDC refund calculation instead of the actual asset value calculation (because the refund amount yields more RAGE tokens), they receive more RAGE tokens than their assets are actually worth, effectively diluting the backing per RAGE token for all holders.
- **Refunds:** When users request 85% USDC refunds after 1000 days, this requires the contract to sell some of its pHestia and pCircle assets from active assets to acquire the necessary USDC, very likely at a loss, reducing the total backing available for remaining holders.
- **Buy Pressure on the Pool:** When traders buy RAGE from the pool, these tokens move from the excluded pool position to active supply, diluting backing as more tokens now claim the same backing value

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How RAGE Will Process Refunds

- **Debt Tracking:** The smart contract keeps a record of all debt (NFT receipts that were never converted to RAGE tokens) minus the monetary value of the pending backing assets. It also tracks which net debt will become refundable within the next 10 days.
- **Asset Liquidation Process:** A privileged function exists to withdraw some active backing assets to cover any shortfall from pending asset liquidations for upcoming refunds. This process is not automated and must be executed manually by contract administators.

How URM Ecosystem will Support RAGE

The URM ecosystem maintains its position as the largest HESTIA holder, providing significant influence over the underlying asset that comprises 80% of RAGE's backing value.

- **Price Support:** The ecosystem wallet will attempt to keep RAGE price over Fair Market Value whenever possible, providing ongoing market support and stability.
- **Liquidity Increase:** The ecosystem can provide USDC to the Rage Chaos Engine for liquidity increases. The RCE mints new RAGE tokens directly into the excluded pool position, requiring only USDC contribution from the ecosystem wallet.
- **Dilution Mitigation:** To prevent dilution from Asset Decline Protection, the ecosystem can increase the percentage of bonus tokens given to existing RAGE holders on new investment calls through the setConfigs function, providing stronger backing growth to offset any dilution effects.

The RAGE Flywheel

The Protocol's Self-Reinforcing Premium Mechanism

How It Works:

1. **RAGE Trades at Premium:** Market price exceeds fair value (e.g., $10 vs $8)
2. **Arbitrage Opportunity:** To capture the premium, traders must use the INVEST function - they can't simply buy RAGE directly as that would be unprofitable
3. **Forced Underlying Demand:** INVEST automatically purchases HESTIA (80%) and ULTRAROUND (20%) with trader's USDC, creating buying pressure on underlying assets
4. **Backing Value Increases:** Higher HESTIA/ULTRAROUND prices increase total treasury value, raising RAGE's fair value
5. **Premium Support/Expansion:** The increased fair value either justifies the existing

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premium or makes it appear even more reasonable, potentially attracting higher market prices

6. **Cycle Accelerates:** Larger premiums attract more arbitrageurs, creating more INVEST activity and further supporting the underlying asset prices

The Key Insight: Unlike traditional arbitrage that eliminates price gaps, this mechanism uses arbitrage activity to support and potentially expand premiums by increasing the fundamental backing value. The very act of profiting from the premium feeds into the premium's sustainability. The Stack Underlying function amplifies this effect by systematically converting premium prices into increased backing value.

Accretive Dilution: When RAGE trades at premium, the RCE's Stack Underlying function can also sell RAGE at high prices to buy more backing assets, creating accretive dilution that further increases FMV and justifies even higher premiums

How RAGE Trading Works

Trading Pool: RAGE can be bought and sold on a RAGE/USDC trading pool controlled by the Rage Chaos Engine.

1. When RAGE is Cheap (below fair value):

- Buy RAGE tokens in the RAGE/USDC pool
- Reserve a claim to lock in future payout
- Wait 30 days and claim the underlying HESTIA and ULTRAROUND for profit

2. When RAGE is Expensive (above fair value):

- Send USDC to the Invest function
- Use the Rage NFT to mint new RAGE tokens
- Sell those RAGE tokens for profit

3. Sell and Buy Lower:

- After reserving a claim, you can sell your RAGE tokens if you want
- You only need to have RAGE tokens when you're ready to actually claim

How RAGE Option Trading Works

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The NFT Receipt as a Financial Option: When you invest, your NFT receipt functions like a sophisticated financial option with multiple exercise strategies based on market conditions.

Important: NFT holders possess static HESTIA + ULTRAROUND tokens that don't generate yield, while RAGE tokens are backed by yield-generating pHestia and pCircle. In normal conditions, as the protocol's backing grows through accretive dilution, yield generation, invest bonuses, and claim fees, NFT holders get fewer RAGE tokens per dollar of assets the longer they delay conversion.

1. Fast Conversion to RAGE (After 3 days)

- Convert your NFT to RAGE tokens using your actual asset value
- **Best when:** RAGE trades at high premium (your new RAGE tokens are worth more than underlying assets) or backing per RAGE is steadily increasing (convert now to get more RAGE tokens before each token becomes backed by more value) or after significant buying from the pool has diluted backing (you'll get more RAGE tokens per dollar of assets)

2. Strategic Waiting Before RAGE Conversion

- Hold your NFT and monitor market conditions before deciding when to convert
- **Upside Confirmation Strategy:** Wait to confirm your HESTIA+ULTRAROUND assets have appreciated before converting to RAGE tokens - this strategy trades fewer RAGE tokens (due to backing growth while waiting) for the certainty of asset price gains, potentially guaranteeing profit even though you're slightly diluted by the increased backing per RAGE
- **Asset Decline Strategy:** After 60 days, use the 80% USDC refund value calculation when your assets have declined significantly - this lets you profit by getting more RAGE tokens than your assets are worth, effectively diluting other holders
- **Backing Decline Strategy:** Use your HESTIA+ULTRAROUND asset value when the backing per RAGE token has decreased due to **Asset Decline Protection** or **Refunds** from other users or after significant buying from the pool - this lets you get more RAGE tokens per dollar of asset value since each RAGE token is now backed by less value

3. USDC Refund (Day 1000+)

- Request 85% USDC refund, forfeit all RAGE potential
- **Best when:** Strategic waiting did not offer the opportunity investor wanted or when the 1000-day commitment is worth the extra 5% premium over Asset Decline Protection (85% vs 80%)

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THE RAGE CHAOS ENGINE (RCE)

The Rage Chaos Engine (RCE) is the protocol's market operations contract. It holds the RAGE/USDC liquidity pool NFT and executes automated strategies to maintain price stability and increase backing value.

Mint and allowance

RAGE Minting Flow

The RCE can request new RAGE token mints through a controlled process:

1. RCE calls **requestSupply** on the RAGE contract
2. Maximum 5% of total supply can be minted per request
3. 24-hour cooldown between requests
4. Newly minted RAGE goes directly to RCE and are excluded from active supply
5. These tokens can only be used for protocol operations, not arbitrary withdrawals

Multisig Yearly Allowance

Once per year, the automator can request up to 15% of the active RAGE supply be sent to the multisig wallet:

- Provides sustainable funding for protocol development and operations
- 365-day cooldown between requests
- RAGE tokens in the multisig are not part of active supply and do not claim backing

The Rage Chaos Engine Pool

The RCE manages the RAGE/USDC trading pool with a unique mechanism: RAGE tokens held in the pool's liquidity position are excluded from backing calculations. This creates a dynamic where trading activity directly affects backing concentration:

How It Works:

- **When traders BUY RAGE:** Tokens move from the pool (excluded) to their wallet

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(included), increasing active supply and diluting backing per token

- **When traders SELL RAGE:** Tokens move from their wallet (included) to the pool (excluded), decreasing active supply and concentrating backing per token

Impact on Protocol:

- **Selling benefits holders:** Each sale increases backing concentration for remaining RAGE tokens
- **Buying dilutes holders:** Each purchase reduces backing per RAGE token
- **Free liquidity provision:** RCE can mint new RAGE directly into the pool (excluded position) without diluting holders, requiring only USDC contribution
- **Burns affect price, not backing:** When RCE burns collected RAGE, it reduces supply and supports price, but doesn't increase backing since those tokens already didn't claim backing

Stack Underlying function

Purpose: Increases backing value per RAGE token when market price exceeds Fair Market Value (FMV)

How it works:

1. Sells a small percentage (0.01% - 1%) of RAGE from the pool position
2. Uses proceeds to purchase pHestia and pCircle at configured ratios
3. Transfers these pTokens to the RBP, increasing active backing
4. Results in "accretive dilution" - while RAGE supply increases slightly, backing value increases more

Example: If RAGE trades at $10 but FMV is $8, selling 100 RAGE for $1,000 and adding $1,000 of backing increases FMV more than the dilution decreases it, benefiting all holders.

Pool Boost function

Purpose: Increases liquidity depth when RAGE trades above FMV

How it works:

1. Optionally sells RAGE for USDC if configured (when trading above FMV)
2. Uses all available RAGE and USDC in RCE to increase liquidity in the pool

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3. Deeper liquidity reduces price impact for traders

Rage Crush function

Purpose: Reduces RAGE supply and provides price support when trading below FMV

How it works:

1. Optionally decreases liquidity position to unlock additional USDC
2. Collects all accumulated trading fees from the pool
3. If enabled, uses collected USDC to buy RAGE from the market
4. Burns all collected and purchased RAGE tokens

setConfigs functions

The RAGE Protocol includes privileged **setConfigs** functions on both the Rage Buying Protocol and Rage Chaos Engine contracts. These enable the URM ecosystem automator to adjust key protocol parameters after launch based on evolving market conditions and performance data.

Rage Buying Protocol

The Rage Buying Protocol's configuration function controls the core investment mechanics and user-facing parameters of the protocol.

Important: Parameter changes through setConfigs only apply to newly created NFTs and investments. Existing NFT receipts retain their original terms and are unaffected by subsequent configuration updates.

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Configurable Parameters and Ranges:

- **Minimum Investment:** Adjustable from $1 to $100 (default: $10) - determines the minimum amount of USDC required to create a position
- **Maximum Investment:** Adjustable from $1,000 to $100,000 (default: $10,000) - determines the maximum amount of USDC allowed per investment
- **HESTIA Allocation Ratio:** Adjustable from 55% to 95% (default: 80%) - determines the percentage of each investment allocated to HESTIA tokens. CIRCLE receives the remaining percentage
- **Investor Bonus:** Adjustable from 1% to 15% (default: 5%) - sets the bonus percentage in both tokens (at their ratios) given to investors on their token purchases to cover wrapping

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fees and provide net benefit

- **Mint Delay Period:** Adjustable from 1 to 90 days (default: 3 days) - controls the mandatory waiting period after investment before NFT receipts can be converted to RAGE tokens
- **Asset Decline Protection Delay:** Adjustable from 30 to 300 days (default: 60 days) - sets the waiting period after investment before Asset Decline Protection becomes available for NFT conversion
- **Asset Decline Protection Percentage:** Adjustable from 55% to 90% (default: 75%) - determines the percentage of original investment value used for Asset Decline Protection calculations. Cannot exceed the refund percentage
- **Ecosystem Investment Bonus:** Adjustable from 1% to 15% (default: 5%) - controls the bonus tokens (distributed at their ratios) added to active assets with each new investment
- **Refund Percentage:** Adjustable from 55% to 95% (default: 85%) - sets the percentage of original investment recoverable through the USDC refund mechanism (does not affect Asset Decline Protection calculations)
- **Refund Delay:** Adjustable from 500 days to 1500 days (default: 1000 days) - sets the waiting period after investment before refund becomes available for NFT conversion
- **Minimum Claim:** Adjustable from 0.001 to 1 RAGE (default: 1 RAGE) - sets the minimum amount of RAGE required to reserve a claim
- **Maximum Claim:** Adjustable from 100 RAGE to infinity (default: 1000 RAGE) - sets the maximum amount of RAGE allowed per claim reservation
- **Claim Exit Fee:** Adjustable from 1% to 20% (default: 10%) - determines the fee applied when users claim their RAGE tokens
- **Claim Delay Period:** Adjustable from 10 to 100 days (default: 30 days) - sets the waiting period between creating and executing claims
- **Claim Validity Period:** Adjustable from 1 to 30 days (default: 10 days) - sets the validity period during which a claim can be executed
- **Slippage Tolerance:** Adjustable from 0% (off) to 25% (default: 5%) - sets the maximum allowed price slippage when swapping on the pool
- **TWAP Duration:** Adjustable from 1 second to 3600 seconds (default: 30 seconds) - sets the time-weighted average price duration for price calculations

Rage Chaos Engine

The Rage Chaos Engine's configuration function controls the automated market operations of the protocol.

Configurable Parameters and Ranges:

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- **Stack RAGE:** Adjustable from 100 (1%) to 10,000 (0.01%) (default: 100) - determines the percentage of RAGE in the NFT pool position to sell when stacking underlying assets to boost FMV
- **Stack HESTIA:** Adjustable from 0% to 100% (default: 80%) - sets the percentage of underlying assets allocated to HESTIA when stacking. CIRCLE receives the remaining percentage
- **Boost RAGE:** Adjustable from 0 (off) or 100 (1%) to 10,000 (0.01%) (default: 100) - determines the percentage of RAGE in the NFT pool position to sell for USDC before liquidity increases
- **Crush Decrease:** Adjustable from 0 (off) or 100 (1%) to 10,000 (0.01%) (default: 0) - sets whether and how much liquidity to decrease before collecting fees during Rage Crush operations
- **Crush Buy:** Boolean true/false (default: true) - determines whether Rage Crush should use collected USDC to buy and burn additional RAGE tokens
- **Burst RAGE:** Adjustable from 1 to 200 RAGE (default: 10 RAGE) - determines the amount of RAGE to sell in each loop of the Rage Burst volume generation function
- **Burst Loop:** Adjustable from 1 to 5 (default: 2) - sets the number of buy/sell cycles to execute during each Rage Burst operation
- **Slippage:** Adjustable from 0 (off) to 2,500 (25%) (default: 500 or 5%) - sets the maximum allowed slippage for swaps and liquidity operations on the RAGE/USDC pool
- **Pod Address:** Address (default: 0x0) - sets the Peapods pool address to exclude from active supply calculations
- **Side Address 1:** Address (default: 0x0) - sets the first side pool address to exclude from active supply calculations
- **Side Address 2:** Address (default: 0x0) - sets the second side pool address to exclude from active supply calculations

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