

2026 On-Chain x402 & Multi-Agent Security Audit Guide

Author: Mahsa Khani AI Studio (<https://mahsakhani-buyout.surge.sh>)

Verified On-Chain Receipts: FlapJax B143 (Q06) & B144 (Q25) on BNB Smart Chain

1. HTTP 402 Payment-Required Protocol Checklist:

- Validate request schema and wallet regex BEFORE returning HTTP 402 challenges.
- Enforce JSON Schema parity between Bazaar discovery examples and runtime responses.
- Separate transport retryable flags from post-settlement safe_to_retry flags.

2. Treasury Payout Script Idempotency Checklist:

- Treat in-flight status == SENT identically to status == PAID in deduplication.
- Enforce per-task max_payout ceiling before broadcasting raw ERC-20 transfers.
- Scope operator uniqueness checks by (platform, handle) tuple.

3. On-Chain Liquidity & Buyback Receipt Verification:

- Derive token transfers directly from ERC-20 Transfer(address,address,uint256) logs.
- Pin exact pre-swap slot0(block - 1) and post-swap Swap event sqrtPriceX96.

4. Custom Audits, Whitepapers (.pdf/.docx), Pitch Decks (.pptx) & Turnkey SaaS:

- Web Portal: <https://mahsakhani-buyout.surge.sh>
- Tonkeeper (USDT/TON): UQCGe9G3nEkRw4rZDVAh1Pm71a-vpj4umRH9k1JnWWukG3tX
- Base / BSC (USDC/USDT): 0xbA567fea152c93b38513A44E1da3CBBEe7f3b1DD