SECURITY AUDIT REPORT

StakePoint Smart Contract Auditor

stakepoint.app

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Program Information

Program Name: staking_program

`Program ID: gLHaGJsZ6G7AXZxoDL9EsSWkRbKAWhFHi73gVfNXuzK`

100

Security Score

out of 100

LOW RISK

16 Instructions Analyzed

8/8 Security Checks Passed

Executive Summary

Analyzed 16 instructions across the staking_program. Found 0 high-severity issues and 0 warnings. 8/8 security checks passed. The program follows most Solana security best practices.

Security Checks

- Signer Validation — PASS
  16/16 instructions have signer checks
- PDA Validation — PASS
  PDA seeds and bumps are validated
- Owner Checks — PASS
  16/16 mutable instructions verify ownership
- Initialization Guards — PASS
  Has initialization instructions
- Access Control — PASS
  11 instructions require admin/authority
- Emergency Pause — PASS
  Has pause/unpause functionality
- Error Handling — PASS
  42 custom error types defined
- Event Logging — PASS
  14 events for audit trails

Instructions Analysis

`claim` — 11 accounts

Signer PDA Owner

`claim_reflections` — 8 accounts

Signer PDA Owner

`claim_unclaimed_tokens` — 7 accounts

Signer PDA Owner

`create_project` — 7 accounts

Signer PDA Owner

`deposit` — 12 accounts

Signer PDA Owner

`deposit_rewards` — 7 accounts

Signer PDA Owner

`emergency_unlock` — 2 accounts

Signer PDA Owner

`initialize` — 4 accounts

Signer PDA Owner

`initialize_pool` — 9 accounts

Signer PDA Owner

`pause_project` — 2 accounts

Signer PDA Owner

`refresh_reflections` — 4 accounts

Signer PDA Owner

`set_fees` — 2 accounts

Signer PDA Owner

`unpause_project` — 2 accounts

Signer PDA Owner

`update_fee_collector` — 2 accounts

Signer PDA Owner

`update_referrer` 2 accounts

Signer PDA Owner

`withdraw` 12 accounts

Signer PDA Owner

Recommendations

! Consider a professional manual audit for production deployment

Disclaimer

This security audit report was automatically generated by StakePoint Smart Contract Auditor on 12/11/2025, 3:38:04 PM.

IMPORTANT: This automated analysis is provided for informational purposes only and should not be considered a comprehensive security audit. It analyzes publicly available IDL data and applies pattern-based checks for common vulnerabilities.

Limitations of this automated audit include:

- Cannot analyze actual program bytecode or implementation details
- Cannot detect logical vulnerabilities specific to business logic
- Cannot verify runtime behavior or edge cases
- Cannot assess cross-program invocation risks in full context
- May not detect all vulnerability patterns

For production deployments involving significant value, we strongly recommend engaging a professional security auditing firm to conduct a thorough manual review of your smart contract code.

SP

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