INTERFI

SMART CONTRACT SECURITY ASSESSMENT

PREPARED FOR

BUMI CRYPTO PROJECT

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FOR BUMI CRYPTO PROJECT

Date of Report	July 04, 2025
Live Code	0x86336c0089cf24ecf53033727a0dcdacf1d1d1d2
Platform	Binance Chain
Website	https://bumicrypto.com/
Telegram	https://t.me/bumicryptox
X	https://x.com/BumiCrypto
Language	Solidity
Methodology	Automated Review, Unit Tests, Manual Review
Auditor	InterFi

Disclaimer: Smart contracts deployed on blockchains are inherently exposed to potential exploits, vulnerabilities, and security risks. Blockchain and cryptographic technologies are emerging and carry ongoing uncertainties. Please review the full audit report for detailed insights into risk severity, vulnerabilities, and audit scope limitations.

Centralization Warning: Centralized privileges—regardless of intent or access control—introduce elevated risks to contract security and user trust.

KYC Advisory: The project lacks verified third-party KYC of its owners, team, or deployers. Without independent KYC, transparency and accountability are reduced, increasing the risk of fraud or rug pulls.

Verification: Verify this report: https://www.github.com/interfinetwork

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1. SUMMARY

The audit resulted in the identification of issues across a range of severity levels, including logic flaws, access control oversights, and design inconsistencies. All high-impact findings were communicated to the development team with clear recommendations for remediation. Where applicable, the team has confirmed implementation of fixes or provided justifications for design choices.

1.1 Summary of Findings

Severity	Count
Critical	0
Major	0
Medium	0
Minor	3
Unknown	0
Centralization	2

1.2 Resolution Status

Status	Count
Fixed	2
Partially Fixed	0
Acknowledged	0
Pending	3

1.3 System Overview

This system is a decentralized protocol comprising a suite of smart contracts. These contracts collectively define the rules, permissions, and operational workflows for managing on-chain assets, executing user interactions, and enforcing protocol-level logic. Smart contracts in this context are self-executing code units that autonomously manage the state and behavior of digital assets based on predefined conditions. The protocol utilizes these contracts to enable key functionalities such as:

- Ownership and access control enforcement
- Permission and role-based actions
- Data storage and updates
- Event logging and auditability
- Batch processing and collection management

1.4 Files in Scope

InterFi was engaged by `Bumi Crypto Project` to perform a security audit of the smart contracts. The audit scope was strictly limited to the files explicitly listed under the “Files in Scope” section. No other files or components were reviewed unless otherwise stated.

File	Path	Notes
BUMI	`BUMI.sol`	

1.5 Out-of-Scope Assumptions

The following components and assumptions were explicitly excluded from this audit:

- Frontend or backend integration logic.
- Off-chain components, scripts, or oracles.
- External contracts or libraries unless explicitly stated.
- Compiler-level or EVM-specific behavior outside the contract's scope.
- Governance or tokenomics-related decisions not implemented in code.
- All third-party dependencies as discussed in findings.

2. METHODOLOGY

2.1 Audit Objectives

This audit aims to ensure that the smart contract system is predictable, and behaves as intended under normal conditions. Primary audit objectives are to:

- Identify potential vulnerabilities or logic errors in the implementation.
- Evaluate adherence to best practices in smart contract development.
- Assess the correctness of access controls and permission systems.
- Recommend remediations or enhancements for improved security and performance.

2.2 Methodologies

The audit follows a layered security approach using both automated tools and manual techniques. We review the contracts for functional correctness, exploitability, and adherence to smart contract best practices:

Type	Tools & Techniques
Manual Code Review	Line-by-line analysis to check logic, permissions, and edge cases
Automated Analysis	Tools like Slither, MythX, or custom linters to catch known patterns
Static Analysis	Identification of bugs without executing the code (compile-time checks)
Unit Test Inspection	Evaluation of existing test coverage, assumptions, and potential false positives/negatives (if applicable)
Architecture Review	Mapping of privileged roles, callable paths, and contract interdependencies (if applicable)

2.3 Risk Categorization

Each issue identified during the audit is assigned a severity level based on its potential impact, exploitability, and likelihood of real-world abuse. These categories help prioritize remediation efforts:

Risk Severity	Definition
Critical	Represents a severe vulnerability that may result in complete contract compromise, such as asset theft, permanent loss of functionality, or unrestricted access. These issues are often easily exploitable and require immediate resolution.
Major	Indicates significant risk that can affect core contract behavior, enable unauthorized operations, or create unintended financial exposure. While not as urgent as critical risks, they should be remediated promptly.
Medium	These are moderate-level risks that may become exploitable under specific conditions. They often relate to logic errors, insufficient validation, or architectural oversights that could escalate over time.
Minor	Denotes issues that have low security impact but may degrade code quality, performance, or maintainability. These include inefficiencies, style violations, or redundant logic. Fixes are recommended for robustness.
Unknown	Risks where the severity cannot be confidently determined due to limited context, external dependencies, or ambiguous design intent. It is advised to treat these conservatively and address them proactively.
Centralization	Any function controlled by a single privileged role is treated as a critical risk, regardless of its purpose, due to the potential for misuse, override, or total asset control.

2.4 Resolution Status Definitions

All identified issues are also assigned a resolution status, indicating the current handling and response from the development team:

Status	Definition
Fixed	The issue has been remediated and verified as resolved during the re-audit or final check.
Partially Fixed	The issue has been partially mitigated, but remnants or related concerns may still exist. Further attention may be required.
Acknowledged	The development team has accepted the finding but opted not to implement a fix.
Pending	The issue remains unresolved at the time of publication. It poses a potential risk and should be addressed.

3. FINDINGS

01	unchecked block in _mint
Severity	Minor

Description	In `_mint`, the increase in `_totalSupply` is not wrapped in an unchecked block, unlike the other arithmetic ops.
	`_totalSupply += value; // no unchecked`
	While `uint256` overflows are virtually impossible here due to total supply size limits, consistency and minor gas savings are beneficial.

Recommendation	Wrap the `_totalSupply += value;` line in `unchecked {}` for consistency and gas optimization.
Status	Pending

02	Redundant Imports
Severity	Minor
Description	Imported interfaces (e.g., `IERC6093`) are not used directly in `BUMI.sol`.
Recommendation	Remove unused interface imports (`IERC6093, IERC20Errors`) if not needed explicitly.
Status	Pending

03	No Event for Mint Source Transparency
Severity	Minor
Description	In the constructor, the `_mint(msg.sender, ...)` operation emits a `Transfer(address(0), msg.sender, amount)` event as per `ERC20` standard. However, no separate event identifies that this was the initial supply.
Recommendation	Add a custom event like `event InitialMint(address indexed to, uint256 amount);` and emit it during the constructor to clearly indicate genesis minting.
Status	Pending

4. CENTRALIZATION

Centralization is one of the leading causes of smart contract-related asset losses. When a contract assigns critical powers to a privileged role—such as an `owner`, `admin`, or designated `controller`—the associated risk becomes elevated, especially if that role is tied to a single externally owned account (EOA). In many cases, privileged roles serve operational or safety functions, including:

- Emergency Controls: Ability to `pause()` the contract during active threats or bugs.
- Contract Configuration: Updating key addresses, thresholds, or operational variables post-deployment.

4.1 Noteworthy Privileged Functions

`onlyOwner`

`renounceOwnership`

`transferOwnership`

01	Centralization, Access Controls, Privileged Roles
Severity	Centralization
Description	A single EOA with control can be compromised via phishing, private key leakage, or insider threats. Malicious or negligent use of privileges can lead to - token supply manipulation, disruption of trading via pausing, arbitrary fee changes or wallet exclusions, asset seizures or rerouting, etc. 4.1 Privileged Functions
Recommendation	Using Multi-Signature Wallets: Assign privileged roles to a multi-sig contract requiring signatures from multiple trusted parties. This reduces the impact of any single compromised key. Time-Locked Functions: Introduce delays before executing sensitive operations, allowing time for community review or cancellation. Role Revocation or Transfer: If privileges are no longer needed post-deployment, renounce them or migrate them to DAO governance. Secure Key Management: Any private keys associated with privileged roles must be protected using hardware wallets, secret sharing schemes, or offline signing protocols.
Status	Fixed

02	Centralized Mint Allocation
Severity	Centralization
Description	Entire supply is minted to `msg.sender` during contract deployment. This hardcodes full token control to the deployer at genesis. This creates a centralization risk, allowing a single address to: ▪ Immediately dump or manipulate supply ▪ Withhold tokens from the market ▪ Mislead users into thinking the token is fairly launched or distributed
Recommendation	Implement vesting, time locks, or controlled distribution logic to mitigate single-party control.
Status	Fixed

5. DISCLAIMER

InterFi Network provides professional smart contract audits for blockchain-based codebases (commonly known as smart contracts). This audit assessed the reviewed contract(s) for common vulnerabilities, centralization risks, and logic flaws. However, no audit can guarantee the complete absence of bugs or vulnerabilities. This report does not constitute a security guarantee, endorsement, or assurance of business model soundness or legal compliance.

The review is limited strictly to the source code and its logic as provided, and does not extend to compiler behavior, off-chain components, or external integrations. Due to the evolving nature of blockchain technology and associated risks, users should understand that all materials, including this audit report, are provided strictly on an “as is”, “as available”, and “with all faults” basis.

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5.4 Timeliness & Accuracy

Audit results reflect the state of the code at the time of review. InterFi makes no commitment to update findings after publication. We do not warrant the accuracy, completeness, or timeliness of information delivered via this report.

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6. ABOUT

InterFi Network is a leading provider of intelligent blockchain solutions, offering secure, scalable, and production-ready smart contract services. Our team specializes in the development, testing, and auditing of smart contracts across a wide range of blockchain ecosystems.

We have delivered:

- 300+ smart contract systems developed
- 2,000+ smart contracts audited
- 500,000+ lines of code reviewed and analyzed

Our technical expertise spans multiple languages including:

- Solidity for EVM-compatible chains (Ethereum, BNB Chain, Polygon, Avalanche, Cronos, Fantom, Velas, Metis, and more)
- Move for next-generation platforms such as Sui and Aptos
- Rust for advanced ecosystems like Solana, Near, and Cosmos SDK-based chains

6.1 Connect with Us

InterFi Network is driven by a multidisciplinary team of engineers, developers, UI/UX specialists, and blockchain researchers. The core team consists of 3 senior members supported by 4+ expert contributors across code auditing, tooling, and protocol design.

- Website: interfi.network
- Email: hello@interfi.network
- GitHub: github.com/interfinetwork
- Telegram (Engineering): @interfiaudits
- Telegram (Onboarding): @interfisupport

THANK YOU