

Security Assessment

Meta Speed

Dec 16th, 2021



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Disclaimer

About



Summary

This report has been prepared for Meta Speed to discover issues and vulnerabilities in the source code of the Meta Speed project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Static Analysis and Manual Review techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases;
- Provide more comments per each function for readability, especially contracts that are verified in public;
- Provide more transparency on privileged activities once the protocol is live.



Overview

Project Summary

Project Name	Meta Speed
Platform	bsc
Language	Solidity
Codebase	https://bscscan.com/address/0x6a0C486139213FDB9c1D4fC1c9f658D0a4e4317E#code
Commit	

Audit Summary

Delivery Date	Dec 16, 2021
Audit Methodology	Static Analysis, Manual Review
Key Components	

Vulnerability Summary

Vulnerability Level	Total	① Pending	⊗ Declined	(i) Acknowledged	Partially Resolved	
Critical	0	0	0	0	0	0
Major	3	0	0	3	0	0
Medium	3	0	0	3	0	0
Minor	1	0	0	1	0	0
Informational	10	0	0	10	0	0
Discussion	0	0	0	0	0	0

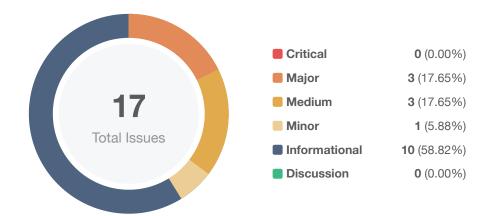


Audit Scope

ID	File	SHA256 Checksum
MSM	MetaSpeed/MetaSpeed.sol	cfcef4adab512bae0a0f017fe15e7bc40f91134703384d8758b789c3c42c2c64



Findings



ID	Title	Category	Severity	Status
MSM-01	Variable Declare as Immutable	Gas Optimization	Informational	(i) Acknowledged
MSM-02	Variable could be declared as constant	Gas Optimization	Informational	(i) Acknowledged
MSM-03	Initial token distribution	Centralization / Privilege	Major	(i) Acknowledged
MSM-04	Incorrect Error Message	Logical Issue	Minor	(i) Acknowledged
MSM-05	Missing Error Messages	Coding Style	Informational	(i) Acknowledged
MSM-06	Variable _r0wned[account] Not Updated in Function includeInReward()	Control Flow	Medium	(i) Acknowledged
MSM-07	Centralization Risk	Centralization / Privilege	Major	(i) Acknowledged
MSM-07	Centralization Risk Missing Emit Events		MajorInformational	Acknowledged Acknowledged
		Privilege	•	
MSM-08	Missing Emit Events	Privilege Coding Style	Informational	(i) Acknowledged
MSM-08	Missing Emit Events Missing Zero Address Validation	Privilege Coding Style Coding Style	InformationalInformational	Acknowledged Acknowledged
MSM-08 MSM-09	Missing Emit Events Missing Zero Address Validation Lack of Specified Rate Range Restriction	Privilege Coding Style Coding Style , Logical Issue Language	InformationalInformationalMedium	Acknowledged Acknowledged Acknowledged
MSM-08 MSM-09 MSM-10	Missing Emit Events Missing Zero Address Validation Lack of Specified Rate Range Restriction Unlocked Compiler Version	Privilege Coding Style Coding Style , Logical Issue Language Specific	InformationalInformationalMediumInformational	Acknowledged Acknowledged Acknowledged Acknowledged Acknowledged



ID	Title	Category	Severity	Status
MSM-14	Incorrect Transfer Token	Logical Issue	Major	i) Acknowledged
MSM-15	Discussion For Function _transferStandard()	Control Flow	Informational	(i) Acknowledged
MSM-16	Unused Functions	Volatile Code	Informational	(i) Acknowledged
MSM-17	Unused variable	Gas Optimization	Informational	(i) Acknowledged



MSM-01 | Variable Declare as Immutable

Category	Severity	Location	Status
Gas Optimization	Informational	MetaSpeed/MetaSpeed.sol: 161~163, 167, 167	(i) Acknowledged

Description

The variables _NAME, _SYMBOL, _DECIMALS and _DECIMALFACTOR assigned in the constructor can declare with Immutable. Immutable state variables can be assigned during contract creation but will remain constant throughout the lifetime of a deployed contract. A big advantage of immutable variables is that reading them is significantly cheaper than reading from regular state variables since will not be stored in storage. Still, values will be directly inserted the values into the runtime code.

Recommendation

We recommend using an immutable state variable for these variables.

Alleviation



MSM-02 | Variable could be declared as constant

Category	Severity	Location	Status
Gas Optimization	Informational	MetaSpeed/MetaSpeed.sol: 166	(i) Acknowledged

Description

Variables _MAX and _GRANULARITY could be declared as constant since these state variables are never to be changed.

Recommendation

We recommend declaring those variables as constant.

Alleviation



MSM-03 | Initial token distribution

Category	Severity	Location	Status
Centralization / Privilege	Major	MetaSpeed/MetaSpeed.sol: 202	(i) Acknowledged

Description

_rTotal of the tokens are sent to the token0wner when deploying the contract. This could be a centralization risk as the owner can distribute tokens without obtaining the consensus of the community. Since the privilege of the owner, it is possible of being maliciously manipulated by hackers if the account of the owner was compromised.

Recommendation

We recommend the team be transparent regarding the initial token distribution process, and the team shall make enough efforts to restrict the access of the private key.

Alleviation

The team acknowledged this issue and they stated the following:

"The project team will maintain the transparency of token distribution during the project's marketing and launch process, and all data can be queried on the chain. The private key will not be opened and protect the security of backstage operations. After the project operation is stable, the project team will abandon the Owner's permission, and the community will participate in the common governance."



MSM-04 | Incorrect Error Message

Category	Severity	Location	Status
Logical Issue	Minor	MetaSpeed/MetaSpeed.sol: 310	① Acknowledged

Description

The error message in require(_isExcluded[account], "Account is already excluded") does not describe the error correctly.

Recommendation

The message "Account is already excluded" can be changed to "Account is not excluded".

Alleviation



MSM-05 | Missing Error Messages

Category	Severity	Location	Status
Coding Style	Informational	MetaSpeed/MetaSpeed.sol: 338	① Acknowledged

Description

The **require** can be used to check for conditions and throw an exception if the condition is not met. It is better to provide a string message containing details about the error that will be passed back to the caller.

Recommendation

We recommend providing the error message.

Alleviation



MSM-06 | Variable _r0wned[account] Not Updated in Function includeInReward()

Category	Severity	Location	Status
Control Flow	Medium	MetaSpeed/MetaSpeed.sol: 309	(i) Acknowledged

Description

Variable _r0wned[account] Not Updated in Function includeInReward() The function below has a known bug.

```
309
         function includeAccount(address account) external onlyOwner() {
310
             require(_isExcluded[account], "Account is already excluded");
311
             for (uint256 i = 0; i < _excluded.length; i++) {</pre>
312
                 if (_excluded[i] == account) {
313
                     _excluded[i] = _excluded[_excluded.length - 1];
314
                     _{t0wned[account] = 0};
315
                     _isExcluded[account] = false;
316
                     _excluded.pop();
317
                     break;
318
                 }
319
             }
320
        }
```

Variable _r0wned[account] is not updated in the function includeInReward(), which will make the accounts included siphon off the tokens out of the balances of all token holders.

Details of this finding can be seen in this article from Pera Finance: Link

Recommendation

Variable _r0wned[account] Not Updated in Function includeInReward() We recommend updating _r0wned[account] before setting _t0wned[account] to 0.

Sample code:

```
309
         function includeInReward(address account) external onlyOwner() {
310
             require(_isExcluded[account], "Account is already excluded");
311
             for (uint256 i = 0; i < excluded.length; <math>i++) {
312
                 if (_excluded[i] == account) {
                     _excluded[i] = _excluded[_excluded.length - 1];
313
314
                    _rOwned[account] = _tOwned[account].mul(_getRate());
315
                     _{towned}[account] = 0;
                     _isExcluded[account] = false;
316
```



Alleviation





MSM-07 | Centralization Risk

Category	Severity	Location	Status
Centralization / Privilege	Major	MetaSpeed/MetaSpeed.sol: 137, 141, 322, 300, 309, 332	(i) Acknowledged

Description

In the contract, the role _owner has the authority over the following function:

- renounceOwnership(), to renounce ownership.
- transferOwnership(), to transfer ownership.
- setAsCharityAccount(), to set charity account.
- excludeAccount(), to exclude account.
- includeAccount(), to include account.
- updateFee(), to update fee.

Any compromise to the _owner account may allow the hacker to take advantage of this.

Recommendation

We advise the client to carefully manage the _owner account's private key to avoid any potential risks of being hacked. In general, we strongly recommend centralized privileges or roles in the protocol to be improved via a decentralized mechanism or smart-contract-based accounts with enhanced security practices, e.g., Multisignature wallets.

Indicatively, here is some feasible suggestions that would also mitigate the potential risk at the different level in term of short-term and long-term:

- Time-lock with reasonable latency, e.g., 48 hours, for awareness on privileged operations;
- Assignment of privileged roles to multi-signature wallets to prevent a single point of failure due to the private key;
- Introduction of a DAO/governance/voting module to increase transparency and user involvement.

Alleviation

The team acknowledged this issue and they stated the following:

"The private key will not be opened and protect the security of backstage operations. After the project operation is stable, the project team will abandon the Owner's permission, and the community will participate in the common governance."





MSM-08 | Missing Emit Events

Category	Severity	Location	Status
Coding Style	Informational	MetaSpeed/MetaSpeed.sol: 322, 332	(i) Acknowledged

Description

The function that affects the status of sensitive variables should be able to emit events as notifications.

Recommendation

Consider adding events for sensitive actions, and emit them in the function.

Alleviation



MSM-09 | Missing Zero Address Validation

Category	Severity	Location	Status
Coding Style	Informational	MetaSpeed/MetaSpeed.sol: 186, 322	(i) Acknowledged

Description

Addresses should be checked before assignment to make sure they are not zero addresses.

Recommendation

Consider adding a check as below,

constructor(),

```
1 require(_FeeAddress != address(0), "fee address cannot be 0");
2 require(tokenOwner != address(0), "token Owner address cannot be 0");
```

setAsCharityAccount(),

```
1 require(account != address(0), "charity address cannot be 0");
```

Alleviation



MSM-10 | Lack of Specified Rate Range Restriction

Category	Severity	Location	Status
logi, Logical Issue	Medium	MetaSpeed/MetaSpeed.sol: 193~195, 332	(i) Acknowledged

Description

The owner of the contract has permission to modify the fees without limitation.

Therefore, in the extreme case, that fee could be a very large amount of value, which might cause unexpected loss to the project and users.

Recommendation

We advise the client to set a reasonable range restriction for the aforementioned states to ensure the fair distribution of the fees/tokens.

Alleviation

The team acknowledged this issue and they stated the following:

"They will set a fixed value before the start of marketing, and every function change will take a community vote and other plans to ensure the fair distribution of fees."



MSM-11 | Unlocked Compiler Version

Category	Severity	Location	Status
Language Specific	Informational	MetaSpeed/MetaSpeed.sol: 14	(i) Acknowledged

Description

The contract has unlocked compiler version. An unlocked compiler version in the source code of the contract permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to differing compiler version numbers. This can lead to an ambiguity when debugging as compiler specific bugs may occur in the codebase that would be hard to identify over a span of multiple compiler versions rather than a specific one.

Recommendation

We advise that the compiler version is instead locked at the lowest version possible that the contract can be compiled at. For example, for version v0.8.2 the contract should contain the following line:

pragma solidity 0.8.2;

Alleviation



MSM-12 | The purpose of function deliver

Category	Severity	Location	Status
Control Flow	Informational	MetaSpeed/MetaSpeed.sol: 274	① Acknowledged

Description

The function deliver can be called by anyone. It accepts an uint256 number parameter tAmount. The function reduces the MetaSpeed token balance of the caller by rAmount, which is tAmount reduces the transaction fee. Then, the function adds tAmount to variable _tFeeTotal, which represents the contract's total transaction fee. We wish the team could explain more on the purpose of having such functionality.

Alleviation



MSM-13 | Incorrect Burn Token Amount

Category	Severity	Location	Status
Logical Issue	Medium	MetaSpeed/MetaSpeed.sol: 337	① Acknowledged

Description

The burn() function is used to burn the reflection tokens by the amount specified by _value parameter. The amount of reflection tokens burnt needs to be converted(amount = amount * _getRate()) to the decrease in normal token before it is then subtracted from the total token amount _r0wned. Besides, if the user-specified by _who argument has been excluded from the reward, the account's t0wned should decrease by _value. The current bookkeeping logic is inconsistent with the underlying asset shift.

Recommendation

We advise the client to review the function again.

Alleviation



MSM-14 | Incorrect Transfer Token

Category	Severity	Location	Status
Logical Issue	Major	MetaSpeed/MetaSpeed.sol: 362	(i) Acknowledged

Description

When the desired address is excluded from receiving holder rewards, it cannot benefit from the deflation, _towned tracks the token amount owned by the address. The sender transfers tokens to the recipient which is excluded from the rewards, it will get incorrect results when calling the function balanceOf().

Recommendation

We advice the client to review the function again.

Alleviation



MSM-15 | Discussion For Function _transferStandard()

Category	Severity	Location	Status
Control Flow	Informational	MetaSpeed/MetaSpeed.sol: 366	① Acknowledged

Description

The function _transferStandard() is useless to call _reflectFees(), so the transaction fee will not be deducted during the transfer process, and there will be no deflation. We would like to know if it is consistent with project design?

Alleviation



MSM-16 | Unused Functions

Category	Severity	Location	Status
Volatile Code	Informational	MetaSpeed/MetaSpeed.sol: 378, 390, 402	(i) Acknowledged

Description

The private functions _transferToExcluded() \ _transferFromExcludeds() and _transferBothExcluded() are never used.

Recommendation

We advise removing it if there is no plan for further usage.

Alleviation



MSM-17 | Unused variable

Category	Severity	Location	Status
Gas Optimization	Informational	MetaSpeed/MetaSpeed.sol: 149	(i) Acknowledged

Description

The variable isMint on line 15 is declared but never used.

Recommendation

We recommend removing the unused variable.

Alleviation



Appendix

Finding Categories

Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how block.timestamp works.

Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being invoke-able by anyone under certain circumstances.

Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

Language Specific

Language Specific findings are issues that would only arise within Solidity, i.e. incorrect usage of private or delete.

Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

Checksum Calculation Method



The "Checksum" field in the "Audit Scope" section is calculated as the SHA-256 (Secure Hash Algorithm 2 with digest size of 256 bits) digest of the content of each file hosted in the listed source repository under

the specified commit.

The result is hexadecimal encoded and is the same as the output of the Linux "sha256sum" command against the target file.



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