G$_0$ Group

Security Review of

Zodiac

September 2021

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Files in scope

All contract files in
https://github.com/gnosis/zodiac/tree/67a0956e2bce11b5945cc79f1aff4ee3a0a4ea2a/contracts

Current status

All issues have been fixed by the developer. There are no known issues in
https://github.com/gnosis/zodiac/tree/c7aea1be89447584d7fb38911c9a8410d8b64acd/contracts

Issues

1. FactoryFriendly.initialized is redundant

type: optimization / severity: minor

`FactoryFriendly.initialized` is redundant since the functionality is already implemented in the OZ Initializable contract.

status - fixed

Issue has been fixed and is no longer present in

https://github.com/gnosis/zodiac/tree/c7aea1be89447584d7fb38911c9a8410d8b64acd/contracts

2. Proxy deployment bytcode in ModuleProxyFactory.createProxy can be optimized

type: optimization / severity: minor

In the deployment part of the bytecode `DUP2` opcode is used to put a `0` on stack instead of a cheaper `RETURNDATASIZE` opcode, when `DUP2` is replaced by `RETURNDATASIZE`, it also allows the very first `RETURNDATASIZE` opcode to be removed.

status - fixed

Issue has been fixed and is no longer present in

https://github.com/gnosis/zodiac/tree/c7aea1be89447584d7fb38911c9a8410d8b64acd/contracts