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FINAL REPORT:

CVE Token

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1. Project Details

Project	CVE Token
Website	N/A
Туре	Token
Language	Solidity
Methods	Manual Analysis
Github repository	https://github.com/Chainverge/SmartContracts/blob/main/C VE%20Token

2. Detections Overview

Severity	Found	Resolved	Partially Resolved	Acknowledged (no change made)
High	0			
Medium	0			
Low	0			
Informational	1			
Governance	1			
Quality assurance	0			
Total	2			



2.1 Detections Definitions

Severity	Description		
High	The problem poses a significant threat to the confidentiality of a considerable number of users' sensitive data. It also has the potential to cause severe damage to the client's reputation or result in substantial financial losses for both the client and the affected users.		
Medium	While medium level vulnerabilities may not be easy to exploit, they can still have a major impact on the execution of a smart contract. For instance, they may allow public access to critical functions, which could lead to serious consequences.		
Low	Poses a very low-level risk to the project or users. Nevertheless the issue should be fixed immediately		
Informational	Effects are small and do not post an immediate danger to the project or users		
Governance	Governance privileges which can directly result in a loss of funds or other potential undesired behavior		
Qauality assurance	Aggregated minor issues, ensuring a high quality codebase.		



3. Detections

BurnableTaxToken

The BurnableTaxToken is an ERC20 token that integrates functionalities from OpenZeppelin's esteemed ERC20Burnable library, ensuring a foundation of tested and trusted code. This token introduces a distinct transfer-tax mechanism. On every transfer, a fee of up to 1% can be levied, part of which is burned, permanently removing it from circulation, and the rest is directed to a designated fee address. This fee structure supports both deflationary and revenue-generating mechanics. contingent on the ratio set between burning and fee distribution. To cater to strategic partnerships or privileged users, the token introduces a whitelisting mechanism. If either the sender or recipient of a transfer is whitelisted, the transaction is exempted from the fee, facilitating tax-free transfers. This offers a level of flexibility to encourage specific transactions or partnerships. The initial supply of the token is minted by the owner during contract deployment. This supply is capped, meaning the owner cannot mint beyond this initial issuance, ensuring predictability in the token's monetary policy. Additionally, while the fee address, which receives part of the transfer tax, is mutable, any changes made to it will be transparent, ensuring that the community is informed of any revenue redirection. Overall, this token melds tried-and-true functionalities with innovative features, striking a balance between usability, revenue generation, and deflationary characteristics. Proper governance and communication channels will be key to leveraging these functionalities for the benefit of all stakeholders.



Issue	Adjustable fee and whitelist mechanism
Severity	Governance
Description	The ERC20 TaxToken's whitelist feature introduces potential centralization issues, as the owner possesses the power to grant certain addresses tax-free transactions. This preferential treatment may result in uneven economic dynamics within the token ecosystem. Moreover, large whitelisted token holders can significantly influence tokenomics by conducting vast tax-exempt transfers. Without transparent governance, this structure could lead to market manipulations and erode trust among regular token holders.
Recommendations	We highly recommend informing the community before such changes.
Comments / Resolution	

Issue	Lack of events		
Severity	Informational		
Description	Certain functionalities are changing sensitive state variables, however, these do not emit corresponding events.		
Recommendations	We recommend implementing events for whitelisting and fee adjustment.		
Comments / Resolution			