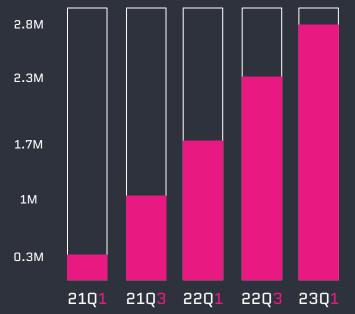


</Courses Overview

- Overlooked User Security Situation
- TSB Introduction
- What can TSB do?
- Detection Tools
- Easter egg

</Overlooked User Security



The Number Of Malicious Scam Token Smart Contract
Attacking Users

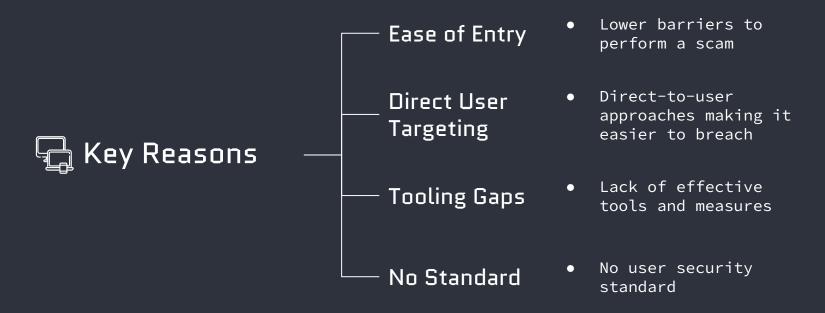
200M

scammed addresses

\$108M

lost in the first half of 2023

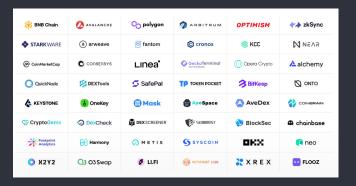
</Reasons for the Scams Growth



</TSB (Token Security Benchmark)</pre>

Background

The standard has been adopted by multiple partners of Goplus as well as members of the web3 security ecosystem, and has more than 2 years of practical experience.



Definition

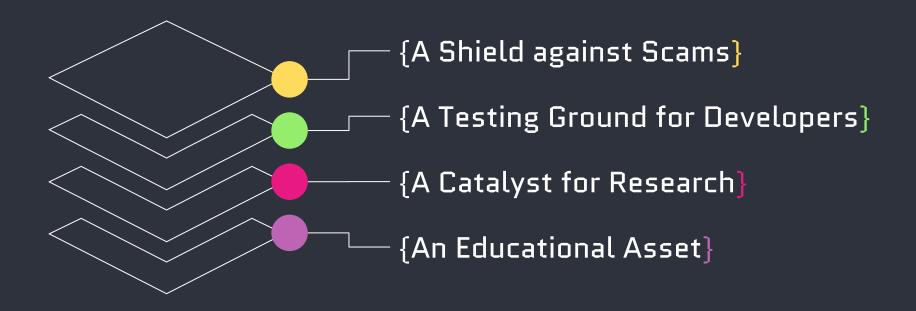
The Token Security Benchmark (TSB) is a comprehensive framework designed to identify, classify, and document deliberate and deceitful patterns, such as honeypots and intentional backdoors, found in token smart contracts within the cryptocurrency ecosystem. By shedding light on these malicious practices, the TSB provides a reference standard against which crypto participants can evaluate, understand, and guard against the concealed threats inherent in certain smart contracts.

</Dive in the TSB

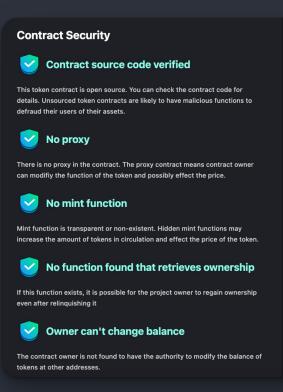
ID	Category
TSB-001	Honeypot
TSB-002	Mintable
TSB-003	OwnershipRetrieval
TSB-004	BalanceManipulation
TSB-005	HiddenOwnership
TSB-006	SelfDestruction
TSB-007	ExternalInvocation
TSB-008	PurchaseRestriction
TSB-009	FullSaleRestriction
TSB-010	SlippageModification
TSB-011	PauseableTransfer
TSB-012	TransactionBlacklisting
TSB-013	TransactionWhitelisting
TSB-014	AntiWhaleStatus
TSB-015	AntiWhaleModification
TSB-016	TradingCooldown
TSB-017	PersonalSlippageModification

TSB-002 Mintable Description Changing the percentage of a position by increasing the balance at a specific address. **Risk Pattern** function mint(unit256 amount) external onlyowner { _balances[_msgSender()] += amount; **Risk Samples** 01.sol 02.sol 03.sol 04.sol

</What can TSB do?



</ How to access the TSB data





</Detection methods

• Slither

Slither converts the smart contract source code into an intermediate representation of SlithIR. SlithIR uses a static single allocation (SSA) form and a reduced instruction set to simplify the contract analysis process while preserving the semantic information of the source code.

String Pattern Match

Because the contracts we attempt to analyze are all of the token erc-20 type, these contracts are generally more stable and the paths that trigger risks are quite clear. Therefore, using regular expressions to perform string matching can also achieve certain effects.

• Transaction simulation

Transaction simulation is a method where transactions are executed in a virtual environment without actually broadcasting them to the real blockchain network. This allows for understanding the potential outcome of a transaction before it becomes irreversible on the blockchain.

</Easter egg



</Q&A and Resources

Telegram: https://t.me/+ALSf1R8UsXsxZjll

Github: https://github.com/cryptousersecurity/token-security-benchmark

Goplus Website: https://gopluslabs.io/

Goplus Twitter: https://twitter.com/GoPlusSecurity