



TCGC

Completed on 2022-03-17

Score **POSITIVE**

Risk level

Critical	0
High	0
Medium	0
Low	1
Note	0

Risk level detail

Overall Risk Severity				
Impact	HIGH	Medium	High	Critical
	MEDIUM	Low	Medium	High
	LOW	Note	Low	Medium
		LOW	MEDIUM	HIGH
	Likelihood			

The tester arrives at the likelihood and impact estimates, they can now combine them to get a final severity rating for this risk. Note that if they have good business impact information, they should use that instead of the technical impact information.

https://owasp.org/www-community/OWASP_Risk_Rating_Methodology

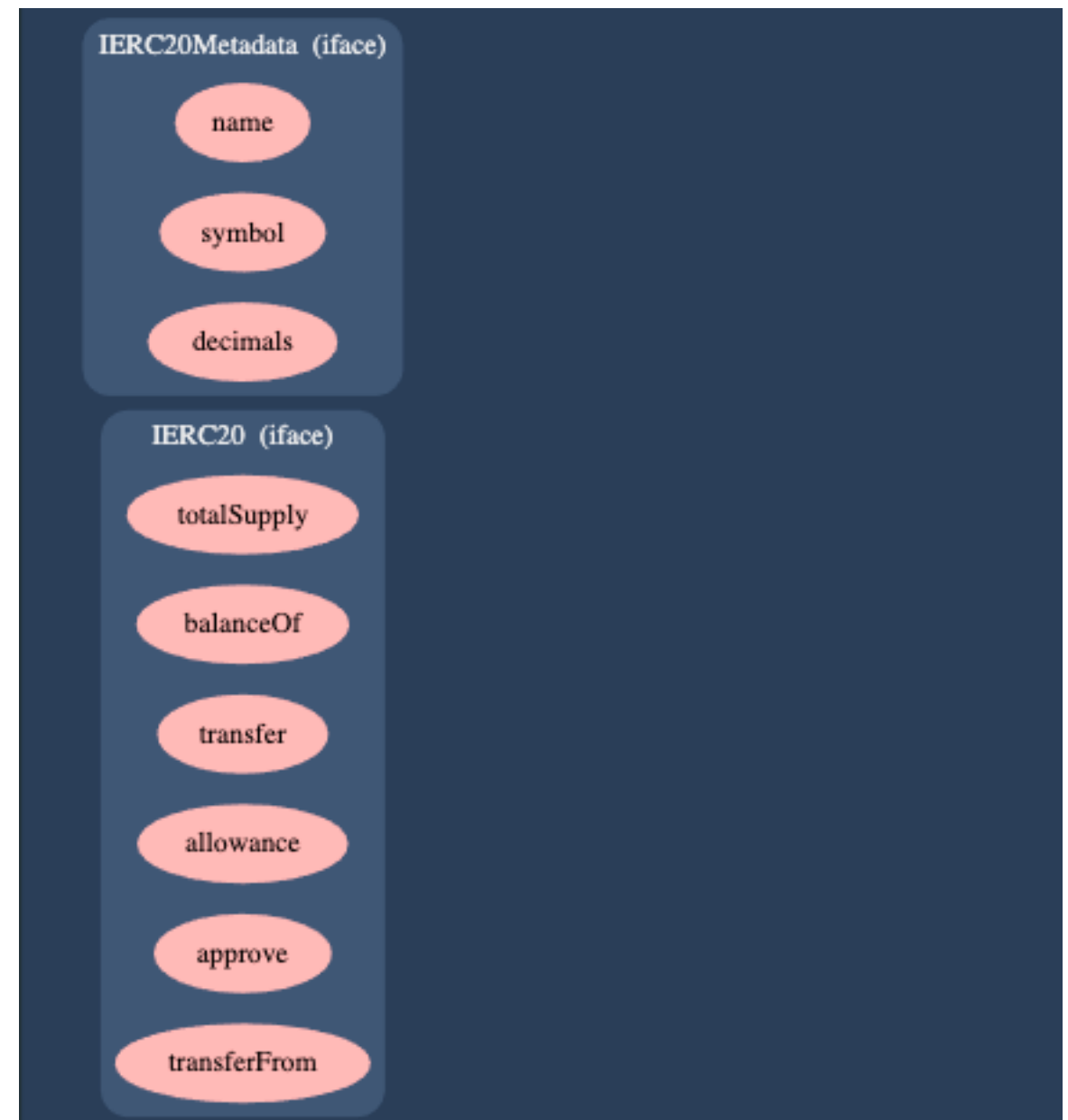
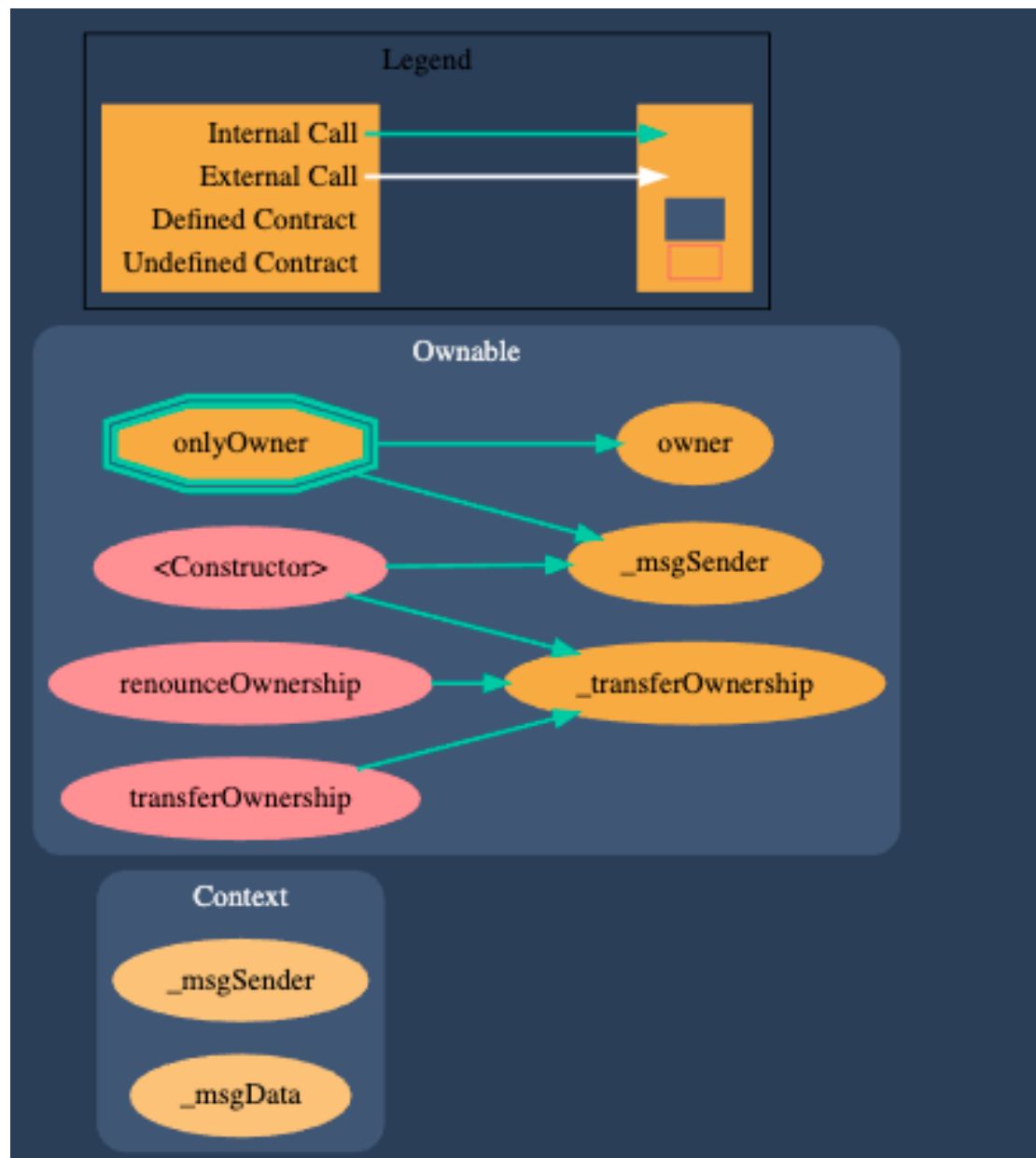
Vulnerability Review

Number of warnings

Compiler Version	0
State Variable Default Visibility	0
Arithmetic Operations	0
Mint Method	1
Integer Overflow / Underflow	0
Parity Multisig Bug	0
Callstack Depth Attack	0
Production Node modules security	0
Development Node modules security	0
Re-Entrancy	0
Double Withdrawal	0

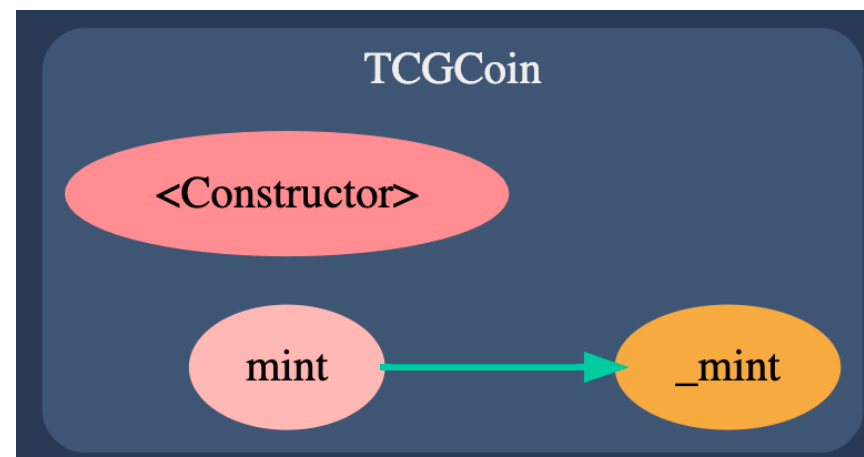
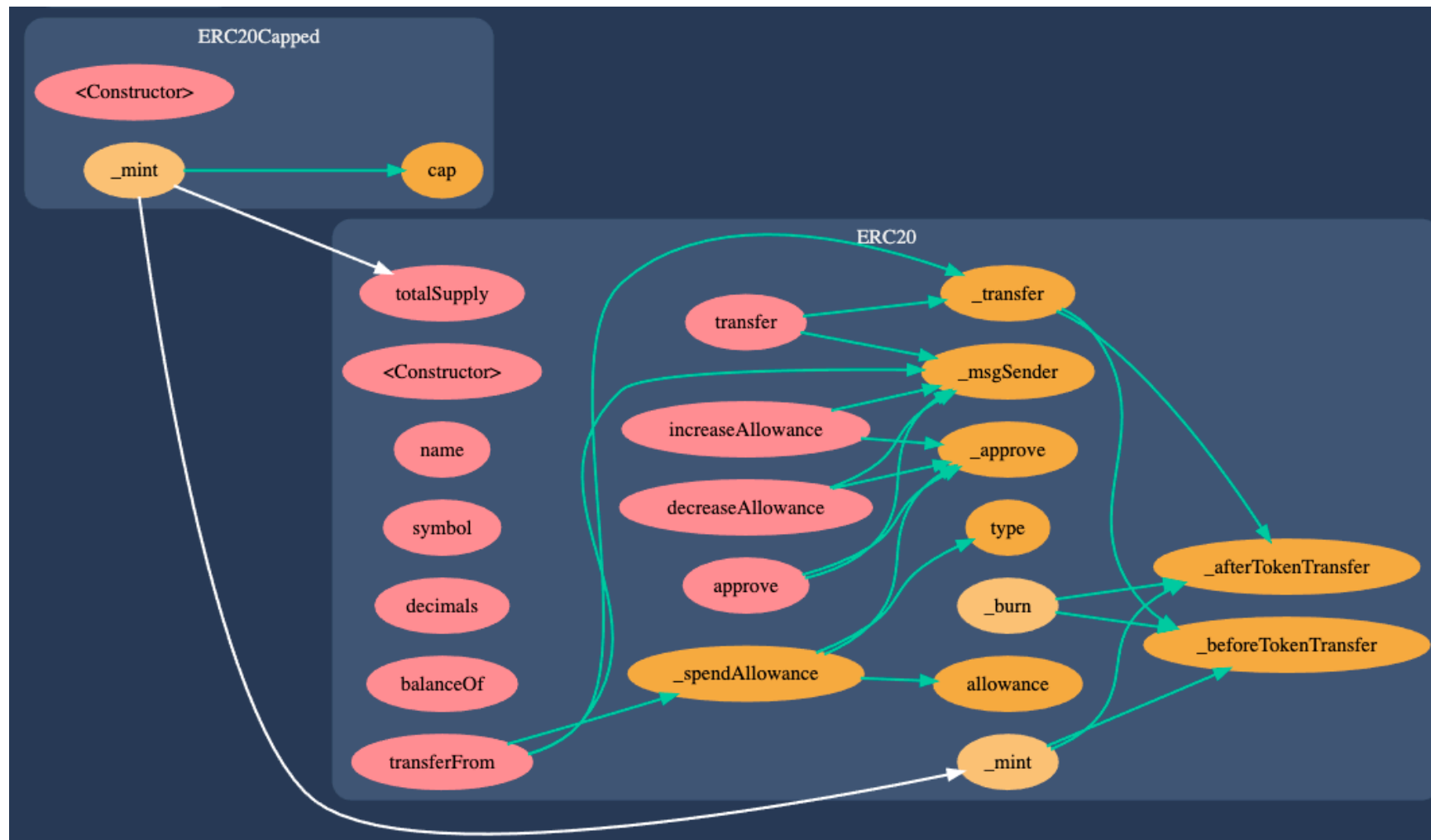


Call Graph





Call Graph : ERC20 Capped / TCGCoin





Mint Method

1

Although it is not a major issue in current case, but we highly suggest to use the function call by calling function using reference. Since both ERC20 class and ERC20Capped have references to `_mint` and it can create issues if not properly handled in future.

*Only ERC2Capped function has automatic capping check

require(ERC20.totalSupply() + amount <= cap(), "ERC20Capped: cap exceeded");

```
function mint(address to, uint256 amount) external onlyOwner {  
    _mint(to, amount);  
}
```



```
function mint(address to, uint256 amount) external onlyOwner {  
    ERC20Capped._mint(to, amount);  
}
```