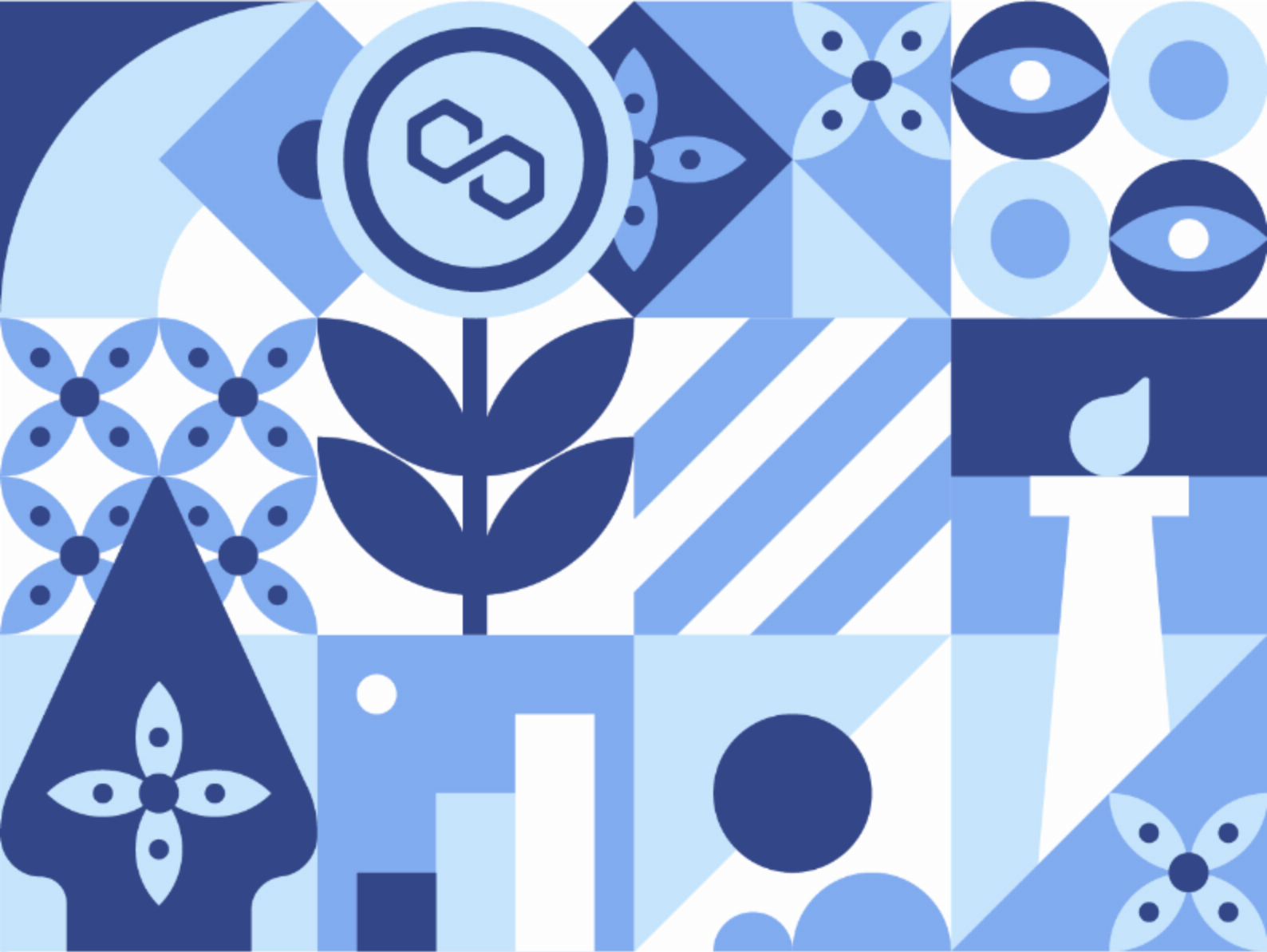




DAFI Token

Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
DAFI Token	DAFI	Polygon Matic

Addresses

Contract address	0x638df98ad8069a15569da5a6b01181804c47e34c
Contract deployer address	0x63ec5767F54F6943750A70eB6117EA2D9Ca77313

Project Website

<https://www.dafiprotocol.io/>

Codebase

<https://polygonscan.com/address/0x638df98ad8069a15569da5a6b01181804c47e34c#code>

SUMMARY

DAFI is a non-refundable functional utility token which will be used as the medium of exchange between participants on the Dafi platform. The goal of introducing DAFI is to provide a convenient and secure mode of payment and settlement between participants who interact within the ecosystem on the Dafi platform, and it is not, and not intended to be, a medium of exchange accepted by the public (or a section of the public) as payment for goods or services or for the discharge of a debt; nor is it designed or intended to be used by any person as payment for any goods or services whatsoever that are not exclusively provided by the issuer.

Contract Summary

Documentation Quality

DAFI Token provides a very poor documentation with standard of solidity base code.

- The technical description is provided unclear and disorganized.

Code Quality

The Overall quality of the basecode is poor.

- Solidity basecode and rules are unclear and disorganized by DAFI Token.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-110 SWC-123 | It is recommended to use of `revert()`, `assert()`, and `require()` in Solidity, and the new REVERT opcode in the EVM on lines 24.
- SWC-112 | Use `delegatecall` with caution and make sure to never call into untrusted contracts on lines 24.

CONCLUSION

We have audited the DAFI Token project released on April 2021 to find issues and identify potential security vulnerabilities in the DAFI Token project. This process is used to find technical issues and security loopholes that may be found in smart contracts.

The security audit report yielded unsatisfactory results, discovering high-risk and low-risk issues.

Writing a contract that does not follow the Solidity style guide can pose a significant risk. The high risk issue found is that the smart contract delegates execution to a user-supplied address. This could allow an attacker to execute arbitrary code in the context of this contract account and manipulate the state of the contract account or execute actions on its behalf. The low risk issue found is that a requirement was violated in a nested call, and the call was reverted as a result. Ensure valid inputs are provided to the nested call (for instance, via passed arguments).

We were recommended to keep being aware of investing in this risky smart contract.

AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	PASS
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	PASS
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	PASS
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	ISSUE FOUND

DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	PASS
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS
Insufficient Gas Griefing	SWC-126	Insufficient gas grieving attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS

Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	PASS
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS

SMART CONTRACT ANALYSIS

Started	Tuesday Apr 06 2021 14:57:40 GMT+0000 (Coordinated Universal Time)
Finished	Wednesday Apr 07 2021 04:16:42 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	UChildERC20Proxy.sol

| Detected Issues

ID	Title	Severity	Status
SWC-112	THE CONTRACT DELEGATES EXECUTION TO ANOTHER CONTRACT WITH A USER-SUPPLIED ADDRESS.	high	acknowledged
SWC-123	REQUIREMENT VIOLATION.	low	acknowledged

SWC-112 | THE CONTRACT DELEGATES EXECUTION TO ANOTHER CONTRACT WITH A USER-SUPPLIED ADDRESS.

LINE 24

high SEVERITY

The smart contract delegates execution to a user-supplied address. This could allow an attacker to execute arbitrary code in the context of this contract account and manipulate the state of the contract account or execute actions on its behalf.

Source File

- UChildERC20Proxy.sol

Locations

```
23 assembly {  
24   let result := delegatecall(  
25     sub(gas(), 10000),  
26     _dst,  
27     add(_calldata, 0x20),  
28   )  
}
```

SWC-123 | REQUIREMENT VIOLATION.

LINE 24

low SEVERITY

A requirement was violated in a nested call and the call was reverted as a result. Make sure valid inputs are provided to the nested call (for instance, via passed arguments).

Source File

- UChildERC20Proxy.sol

Locations

```
23  assembly {  
24    let result := delegatecall(  
25      sub(gas(), 10000),  
26      _dst,  
27      add(_calldata, 0x20),  
28
```

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

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ABOUT US

Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.