



Date: 26 Aug 2025

Audit Process: version 0.9

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PQR Score: 94% **PASS**Protocol Website: <https://www.templarfi.org/>

Scoring Appendix

The final review score is indicated as a percentage. The percentage is calculated as Achieved Points due to MAX Possible Points. For each element the answer can be either Yes/No or a percentage. For a detailed breakdown of the individual weights of each question, please consult this [document](#).

The blockchain used by this protocol

Bitcoin

Ethereum

Solana

Near

#	Question	Answer
Code and Team		100%
1.	<u>Are the smart contract addresses easy to find? (%)</u>	100%
2.	<u>Does the protocol have a public software repository? (Y/N)</u>	Yes
3.	<u>Is the team public (not anonymous)?</u>	100%
4.	<u>How responsive are the devs when we present our initial report?</u>	100%
Code Documentation		83%
5.	<u>Is there a whitepaper? (Y/N)</u>	Yes
6.	<u>Is the protocol's software architecture documented? (%)</u>	85%
7.	<u>Does the software documentation fully cover the deployed contracts' source code? (%)</u>	100%
8.	<u>Is it possible to trace the documented software to its implementation in the protocol's source code? (%)</u>	80%
9.	<u>Is the documentation organized to ensure information availability and clarity? (%)</u>	50%
Testing		87%
10.	<u>Has the protocol tested their deployed code? (%)</u>	100%
11.	<u>How covered is the protocol's code? (%)</u>	56%
12.	<u>Is there a detailed report of the protocol's test results?(%)</u>	70%
13.	<u>Has the protocol undergone Formal Verification? (Y/N)</u>	Yes
Security		97%
14.	<u>Is the protocol sufficiently audited? (%)</u>	100%
15.	<u>Is there a matrix of audit applicability on deployed code (%)? Please refer to the example doc for reference.</u>	100%
16.	<u>Is the bug bounty value acceptably high (%)</u>	70%
17.	<u>Is there documented protocol monitoring (%)?</u>	100%
18.	<u>Is there documented protocol front-end monitoring (%)?</u>	100%

Admin Controls		100%
19.	<u>Is the protocol code immutable or upgradeable? (%)</u>	100%
20.	<u>Is the protocol's code upgradeability clearly explained in non technical terms? (%)</u>	100%
21.	<u>Are the admin addresses, roles and capabilities clearly explained? (%)</u>	100%
22.	<u>Are the signers of the admin addresses clearly listed and provably distinct humans? (%)</u>	100%
23.	<u>Is there a robust documented transaction signing policy? Please refer to the Example doc for reference.(%)</u>	100%
		Total: 94%

Summary

Very simply, the review looks for the following declarations from the developer's site. With these declarations, it is reasonable to trust the smart contracts.

- Here are my smart contract on the blockchain(s)
- Here is the documentation that explains what my smart contracts do
- Here are the tests I ran to verify my smart contracts
- Here are all the security steps I took to safeguard these contracts
- Here is an explanation of the control I have to change these smart contracts
- Here is how these smart contracts get information from outside the blockchain (if applicable)

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This section looks at the code deployed on the relevant chains and team aspects. The document explaining these questions is [here](#).

1. Are the smart contract addresses easy to find? (%)

Answer: **100%**

Smart contract addresses are available at <https://docs.templarfi.org/guide/deployments.html>.

Percentage Score Guidance:

100%	Clearly labelled and on website, documents or repository, quick to find
70%	Clearly labelled and on website, docs or repo but takes a bit of looking
40%	Addresses in mainnet.json, in discord or sub graph, etc
20%	Address found but labelling not clear or easy to find
0%	Executing addresses could not be found

2. Does the protocol have a public software repository? (Y/N)

Answer: **Yes**

Yes: <https://github.com/Templar-Protocol>

Score Guidance:

Yes	There is a public software repository with the code at a minimum, but also normally test and scripts. Even if the repository was created just to hold the files and has just 1 transaction.
No	For teams with private repositories.

3. Is the team public (not anonymous)?

Answer: **100%**

The team can be seen on the GitHub [contributors](#) page. There are two contributors using their actual names. Score 100%.

Percentage Score Guidance:

100%	At least two names can be easily found in the protocol's website, documentation or medium. These are then confirmed by the personal websites of the individuals / their linkedin / twitter.
50%	At least one public name can be found to be working on the protocol.
0%	No public team members could be found.

4. How responsive are the devs when we present our initial report?

Answer: **100%**

The team reached out to DeFiSafety for the review. Automatic 100%.

Percentage Score Guidance:

100% Devs responded within 24hours

100% Devs slow but very active in improving the report

75% Devs responded within 48 hours

50% Devs responded within 72 hours

25% Data not entered yet

0% no dev response within 72 hours

Code Documentation

83%

This section looks at the software documentation. The document explaining these questions is [here](#).

5. Is there a whitepaper? (Y/N)

Answer: **Yes**

Yes, the [light paper](#) is part of the architecture documentation in the GitHub.

Score Guidance:

Yes There is an actual whitepaper or at least a very detailed doc on the technical basis of the protocol.

No No whitepaper. Simple gitbook description of the protocol is not sufficient.

6. Is the protocol's software architecture documented? (%)

Answer: **85%**

There is a large selection of architecture diagrams available in the GitHub. Some connecting explanation would improve comprehension. This results in a score of 85%.

Percentage Score Guidance:

100% Detailed software architecture diagram with explanation

75% Basic block diagram of software aspects or basic text architecture description

0% No software architecture documentation

7. Does the software documentation fully cover the deployed contracts' source code? (%)

Answer: **100%**

Excellent and comprehensive software [documentation](<https://docs.templarfi.org/guide/index.html>) is available in the docs. We still have not found a link from the website to the docs. Score 100%.

Percentage Score Guidance:

100%	All contracts and functions documented
80%	Only the major functions documented
79 - 1%	Estimate of the level of software documentation
0%	No software documentation

8. Is it possible to trace the documented software to its implementation in the protocol's source code? (%)

Answer: **80%**

Excellent and comprehensive software [documentation](<https://docs.templarfi.org/guide/index.html>) is available in the docs. Score 80%.

Percentage Score Guidance:

100%	Will be Requirements with traceability to code and to tests (as in avionics DO-178)
90%	On formal requirements with some traceability
80%	For good autogen docs
60%	Clear association between code and documents via non explicit traceability
40%	Documentation lists all the functions and describes their functions
0%	No connection between documentation and code

9. Is the documentation organized to ensure information availability and clarity? (%)

Answer: **50%**

There is code documentation but it is still rather disconnected. First, there is no connection or link between the website and the docs. Second, the link between the protocol guide and the API documentation is quite thin. Score 50%.

Percentage Score Guidance:

100%	Information is well organized, compartmentalized and easy to navigate
50%	Information is decently organized but could use some streamlining
50%	Minimal documentation but well organized
0%	information is generally obfuscated

Testing

87%

This section covers the testing process of the protocol's smart contract code previous to its deployment on the mainnet. The document explaining these questions is [here](#).

10. Has the protocol tested their deployed code? (%)

Answer: **100%**

Test to Code = $5009/7440 = 67\%$ which gives a score of 40% as per guidance, but for Rust, given its inherent structure anything above 50% gives a 100% score. However with just 26% code coverage we have to reduce the score to 67%. Just inadequate indication of comprehensive testing.

Percentage Score Guidance:

100% TtC > 120% Both unit and system test visible

80% TtC > 80% Both unit and system test visible

40% TtC < 80% Some tests visible

0% No tests obvious

11. How covered is the protocol's code? (%)

Answer: **56%**

As per the readme at <https://github.com/Templar-Protocol/contracts>, the code coverage is 26%

Percentage Score Guidance:

100% Documented full coverage

99 - 51% Value of test coverage from documented results

50% No indication of code coverage but clearly there is a complete set of tests

30% Some tests evident but not complete

0% No test for coverage seen

12. Is there a detailed report of the protocol's test results?(%)

Answer: **70%**

GitHub code coverage report visible at <https://app.codecov.io/gh/Templar-Protocol/contracts>. Score 70%

Percentage Score Guidance:

100% Detailed test report as described below

70% GitHub code coverage report visible

0% No test report evident

13. Has the protocol undergone Formal Verification? (Y/N)

Answer: **Yes**

Formal Verification report privately shared.

Score Guidance:

Yes Formal Verification was performed and the report is readily available

No Formal Verification was not performed and/or the report is not readily available.

This section looks at the 3rd party software audits done. It is explained in this [document](#).

14. Is the protocol sufficiently audited? (%)

Answer: **100%**

Two audits performed (one and two) before deployment and audit findings are public and fixes implemented. Score 100%.

Percentage Score Guidance:

100%	Multiple Audits performed before deployment and the audit findings are public and implemented or not required
90%	Single audit performed before deployment and audit findings are public and implemented or not required
70%	Audit(s) performed after deployment and no changes required. The Audit report is public.
65%	Code is forked from an already audited protocol and a changelog is provided explaining why forked code was used and what changes were made. This changelog must justify why the changes made do not affect the audit.
50%	Audit(s) performed after deployment and changes are needed but not implemented.
30%	Audit(s) performed are low-quality and do not indicate proper due diligence.
20%	No audit performed
0%	Audit Performed after deployment, existence is public, report is not public OR smart contract address' not found.

Deduct 25% if the audited code is not available for comparison.

15. Is there a matrix of audit applicability on deployed code (%)? Please refer to the example [doc](#) for reference.

Answer: **100%**

Not required, just one audit.

Percentage Score Guidance:

100%	Current and clear matrix of applicability
100%	4 or less clearly relevant audits
50%	Out of date matrix of applicability
0%	no matrix of applicability

16. Is the bug bounty value acceptably high (%)

Answer: **70%**

Immunifi bug bounty of 100k.

Percentage Score Guidance:

100%	Bounty is 10% TVL or at least \$1M AND active program (see below)
90%	Bounty is 5% TVL or at least 500k AND active program
80%	Bounty is 5% TVL or at least 500k
70%	Bounty is 100k or over AND active program
60%	Bounty is 100k or over
50%	Bounty is 50k or over AND active program
40%	Bounty is 50k or over
20%	Bug bounty program bounty is less than 50k
0%	No bug bounty program offered / the bug bounty program is dead

An active program means that a third party (such as Immunefi) is actively driving hackers to the site. An inactive program would be static mentions on the docs.

17. Is there documented protocol monitoring (%)?

Answer: **100%**

Strong suite of monitoring tools. Score 100%.

Percentage Score Guidance:

80%	Documentation covering protocol specific threat monitoring
60%	Documentation covering generic threat monitoring
40%	Documentation covering operational monitoring
0%	No on chain monitoring

Add 20% for documented incident response process

18. Is there documented protocol front-end monitoring (%)?

Answer: **100%**

Front end monitoring is documented.

Percentage Score Guidance:

25%	DDOS Protection
25%	DNS steps to protect the domain
25%	Intrusion detection protection on the front end
25%	Unwanted front-end modification detection OR
60%	For a generic web site protection statement

This section covers the documentation of special access controls for a DeFi protocol. The admin access controls are the contracts that allow updating contracts or coefficients in the protocol. Since these contracts can allow the protocol admins to "change the rules", complete disclosure of capabilities is vital for user's transparency. It is explained in this [document](#).

19. Is the protocol code immutable or upgradeable? (%)

Answer: **100%**

Templars contracts are locked, Near speak for immutable. Examples [here](#), [here](#) and [here](#). Score 100%.

Percentage Score Guidance:

100%	Fully Immutable
90%	Updateable via Governance with a timelock $\geq$ 5 days
80%	Updateable with Timelock $\geq$ 5 days
70%	Updateable via Governance
50%	Updateable code with Roles
40%	Updateable code MultiSig
0%	Updateable code via EOA

Pause control does not impact immutability

20. Is the protocol's code upgradeability clearly explained in non technical terms? (%)

Answer: **100%**

The immutability is clearly explained [here](#). Score 100%

Percentage Score Guidance:

100%	Code is Immutable and clearly indicated so in documentation OR
100%	Code is upgradeable and clearly explained in non technical terms
50%	Code is upgradeable with minimal explanation
50%	Code is immutable but this is not mentioned clearly in the documentation
0%	No documentation on code upgradeability

21. Are the admin addresses, roles and capabilities clearly explained? (%)

Answer: **100%**

The contracts are [immutable](#) and there are no roles or capabilities that require multisigs. Score 100%

Percentage Score Guidance:

100%	If immutable code and no changes possible, no admins required OR
100%	Admin addresses, roles and capabilities clearly explained OR
100%	Admin control is through Governance and process clearly explained
80%	Admin addresses, roles and capabilities incompletely explained but good content
40%	Admin addresses, roles and capabilities minimally explained, information scattered
0%	No information on admin addresses, roles and capabilities

22. Are the signers of the admin addresses clearly listed and provably distinct humans? (%)

Answer: **100%**

The contracts are immutable and there are no roles or capabilities that require multisigs. Score 100%

Percentage Score Guidance:

100% If immutable and no changes possible

100% If admin control is fully via governance

80% Robust transaction signing process (7 or more elements)

70% Adequate transaction signing process (5 or more elements)

60% Weak transaction signing process (3 or more elements)

0% No transaction signing process evident

Evidence of audits of signers following the process add 20%

23. Is there a robust documented transaction signing policy? Please refer to the Example doc for reference.(%)

Answer: **100%**

The contracts are immutable and there are no roles or capabilities that require multisigs, so no need for policies. Score 100%

Percentage Score Guidance:

100% If immutable and no changes possible

100% If admin control is fully via governance

80% Robust transaction signing process (7 or more elements)

70% Adequate transaction signing process (5 or more elements)

60% Weak transaction signing process (3 or more elements)

0% No transaction signing process evident

Evidence of audits of signers following the process add 20%

