

Blockchain Security | Smart Contract Audits | KYC Development | Marketing



DMX DAO

Audit

Security Assessment 07. April, 2023

For







Disclaimer	3
Description	5
Project Engagement	5
Logo	5
Contract Links	5
Methodology	8
Used Code from other Frameworks/Smart Contracts (direct imports)	9
Tested Contract Files	10
Source Lines	19
Risk Level	19
Capabilities	20
Inheritance Graph	21
CallGraph	22
Scope of Work/Verify Claims	23
Modifiers and public functions	25
Source Units in Scope	26
Critical issues	30
High issues	30
Medium issues	30
Low issues	30
Informational issues	30
Audit Comments	31
SWC Attacks	32

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Version	Date	Description
1.0	31. March 2023 - 6. April 2023	Layout projectAutomated-/Manual-Security TestingSummary

Network

Fantom Blockchain

Website

https://dmxdao.com/

Telegram

https://t.me/DMX_Community

Twitter

https://twitter.com/DmxDao

Medium

https://medium.com/@DMXDAO

Description

DMX is a decentralized spot and perpetual exchange that supports low swap fees and zero price impact trades.

Trading is supported by a unique multi-asset pool that earns liquidity providers fees from market making, swap fees and leverage trading.

Project Engagement

During the 31th of March 2023, **DMX DAO Team** engaged Solidproof.io to audit smart contracts that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

Logo



Contract Links v1.0

DMX: 0x0Ec581b1f76EE71FB9FEefd058E0eCf90EBAb63E

Vault: 0xD093eeE7c968CEef2df96cA9949ebalalA9b2306

Router: <u>0xE9a5FfCE7596AACf0Cb7fAF1e084fD2B59838C0B</u>

PositionRouter: 0x42bb8B3b8d60A3e58B9F10D67AfCff5DE54F26eD

OrderBook: 0xeD077045f38f864fba8aD9bdbF1CE8F108e5ddb9

Reader: 0xC5EAC26893224E0BCB9a685aa0b82446a48a944E

OrderBookReader: <u>0x75A29e4D607a426440ae88B44AF18B562D246022</u>

DlpManager: 0xd2b6784b8302D0705a90B720d18E16362EFbda76

RewardRouter: 0x3136A318F40Cffc7b75cea83A4F6FB0C372E4922

GitHub- https://github.com/dmxdao/damx-protocol

Commit: c5efdf1



Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level	Value	Vulnerability	Risk (Required Action)
Critical	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
High	7 – 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon aspossible.
Medium	4 – 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
Low	2 – 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
Informational	O – 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as there were discovered.

Methodology

The auditing process follows a routine series of steps:

- 1. Code review that includes the following:
 - i) Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
 - ii) Manual review of code, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
 - iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.
- 2. Testing and automated analysis that includes the following:
 - i) Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
 - ii) Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.
- 3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
- 4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.

Used Code from other Frameworks/Smart Contracts (direct imports)

Imported packages:

The contract is an identical fork of GMX and have the same imports and libraries



Tested Contract Files

This audit covered the following files listed below with a SHA-1 Hash.

A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

v1.0

File Name	SHA-1 Hash
contracts/staking/ StakedGlpMigrator.sol	40a75eb4fe0e4216edb632263 7f438352c8587ff
contracts/staking/GlpBalance.sol	f812ec71143d27a31847b04fb 0bf8f3e390dafce
contracts/staking/ RewardRouterV2.sol	541de87a0b89c0c0574920f66 97a5a168f4c1f25
contracts/libraries/math/Math.sol	c39054602f9a9c506e0d7806c da05fb53155cae5
contracts/libraries/math/ UQ112x112.sol	f97edb26adf392a66e467e646 0b2e6b2aa34a3d7
contracts/libraries/math/SafeMath.sol	77b960c856f29c76aa78767f9 66de67f8b739454
contracts/oracle/PriceFeed.sol	137c096402a1ef4737cda876d 92530833fe47d61
contracts/oracle/FastPriceEvents.sol	51b56e6a847cce4a147056a5 ac8800c4fef6ef24
contracts/oracle/FastPriceFeed.sol	83f5c3e5d435fd1aa2a968451 ae33aebc1ea3885
contracts/tokens/YieldFarm.sol	1b4bceec6cc9e055e5330b2c9 d28096c0db7368e
contracts/tokens/YieldTracker.sol	98cc93c94e66e7b4174e9a14 3b227ba5ae54c6a2

contracts/tokens/YieldToken.sol	d61334487af72819ad4d7211b 7b0f00512ea7d88
contracts/tokens/TimeDistributor.sol	0eaecfde7cb997c61a02ffb1ae 26e0e53fed7f45
contracts/tokens/Token.sol	7b671c4619396166b449f2d87 bb281a803ecc245
contracts/staking/BonusDistributor.sol	ed72905fd8b9c2bb3d8f1b34e 78bd35b14a09c39
contracts/tokens/USDG.sol	644862d4a48b9aa11a2a65acf 93758bfff8f11c9
contracts/peripherals/	d091742cb818df7e4667ebdf8
PriceFeedTimelock.sol	02270ebcecbad5a
contracts/staking/interfaces/	6165aef87d3a390a96107dbc0
IRewardDistributor.sol	15b2d5bd2aaa941
contracts/peripherals/	0bc2bca8553d65a073c6089b
EsGmxBatchSender.sol	1e3ef767be978bc6
contracts/oracle/interfaces/	6d99a297b10e29f4000a7fc2f8
IChainlinkFlags.sol	c131d2ce069be2
contracts/peripherals/	1c7623593a567e9f9b62b18d3
GmxTimelock.sol	8d7ddec04ce3e0c
contracts/libraries/introspection/	21852df340c01e66c1efda22d
IERC165.sol	8fa48417f08c814
contracts/staking/interfaces/	f43c18b2d9d43e68d5b0c24a3
IRewardRouterV2.sol	d31eb62e799ce61
contracts/peripherals/	b3ee4edf3351f8244a6df5d997
OrderBookReader.sol	6fc73ee77f9b3e
contracts/gambit-token/interfaces/	3b20d9d683f236f9b0453a11b
IGMT.sol	4a6e06994ef1fc4
contracts/tokens/BaseToken.sol	2ab07293ea5f7fd49f2ad31026 fcb097db56c283

contracts/libraries/introspection/ ERC165.sol	29a66d5bc5dbfbebd739267db d61c24b84919e25
contracts/peripherals/ RewardReader.sol	e11989dee441e95fe2fcd0235 e9c33e253191fac
contracts/staking/interfaces/ IRewardTracker.sol	c9ea55c4c6c74cc6fc8c5ab00 e37fe4481515bcb
contracts/referrals/ReferralReader.sol	5b9cf7c82fbd8155a6cd42e76c 76328104f741d0
contracts/tokens/ MintableBaseToken.sol	12e55334d799c6a9b24e7f99b 7208bd409097b97
contracts/peripherals/ BalanceUpdater.sol	37278011aad8478ad5046a9a a604f5261fd99721
contracts/tokens/WETH.sol	2da9af6a09db8acb1fad8f82f0 7e82339ae6b46d
contracts/peripherals/Timelock.sol	e7ad9cd7b17a16d28c2513e0 bd03d3cf600ca593
contracts/referrals/ReferralStorage.sol	87d0be4b6a5b35cc97ecfb7c9 0876f74a5575646
contracts/tokens/Bridge.sol	35f60d14b4a7cec6a1b28330e ee6232b9f14fcaf
contracts/peripherals/Reader.sol	a39078fe9dc5f95ff907292ba5 d096878b48f3fe
contracts/oracle/interfaces/ IFastPriceFeed.sol	5a0b9c59198b76ccda704846 9d771c7482f1435f
contracts/staking/interfaces/ IVester.sol	9cc838d160a5c5e71943544a 666cee56c4c85619
contracts/peripherals/ ShortsTrackerTimelock.sol	4c8b074d29ffde48fc807ade97 02395804d5bd76
contracts/peripherals/VaultReader.sol	3d3ffd9ad412b0c7a353136bcf e8fe44d7208246

contracts/peripherals/BatchSender.sol	6846a9ec48924767b4386d61 6b8f4551a798fb5a
contracts/gambit-token/Treasury.sol	35c283f8b5f7aefdc0145522b0 07fdc025e973f3
contracts/gambit-token/GMT.sol	b9ac165178dfb9c12f0624e26 7a31b28af8cb423
contracts/staking/StakedGlp.sol	f45974718453fa1909dafa03fb 72cd4bf5625f44
contracts/oracle/interfaces/ IFastPriceEvents.sol	99ac2e248cdc92441bab30a9 52b191726beb3bda
contracts/oracle/interfaces/ ISecondaryPriceFeed.sol	a6b76377a445e30447d5a0d4 8eba5ec85fd333fa
contracts/oracle/interfaces/ IPriceFeed.sol	b6695b7784849790b2f7544c7 4365741c0e2c9c7
contracts/referrals/interfaces/ IReferralStorage.sol	9c47db454e13c8f69cfe0dc600 9230f661677498
contracts/staking/StakeManager.sol	1b5a78374c09f6a12b186cca3 6e3d2733fe5b853
contracts/staking/Vester.sol	b2250a623c07a86a0d2a06ee 9b0f0bdf6b85fa51
contracts/staking/ RewardDistributor.sol	0662464a90b793e3ed16928f8 1e99e476e6fc6de
contracts/libraries/access/ Ownable.sol	3b8b43b96279a54053561e60 6ce9ff220b7c6a0a
contracts/amm/PancakePair.sol	d251aa72ef71b34a23ebed939 78c6eac2fa6ff9e
contracts/amm/UniFactory.sol	7868887c450d9a7bf00bb2fcd 4f8f461d5093f87
contracts/amm/PancakeRouter.sol	b133fbd7d310dfd1978b9bbd6 e3dab7a510347d8

contracts/amm/UniPool.sol	bbc6dc2247b3f19f38b9a2dfa2 ea891487e756a2
contracts/amm/UniNftManager.sol	cc48523f89cddce0ad84bd831 1bc7d9a57f117a5
contracts/staking/RewardTracker.sol	b40b1cd6cd1c35a23f1abc450 5765c0b5a03e078
contracts/staking/RewardRouter.sol	fa9e85c1dbe8863c5fbe65217 3b8735208a10bb7
contracts/amm/PancakeFactory.sol	b85332f48ecf949add7d5ad87 17115919c82a6d3
contracts/peripherals/interfaces/ ITimelock.sol	212174462e86b1c0b74aa61ef 60a02200acc2abc
contracts/peripherals/interfaces/ ITimelockTarget.sol	0c1c4578897fc45f0ba57cc8d2 d8a4ffbe63afeb
contracts/peripherals/interfaces/ IGmxTimelock.sol	e86bb0eb492d5d8db803cebb e0dd5366671fb2a8
contracts/peripherals/interfaces/ IHandlerTarget.sol	0a2a4fd80b2fda94ea9685c02 ca0df999179fe20
contracts/libraries/GSN/Context.sol	ae89f5593a48ee0e86398ad6e f981f515674ec12
contracts/tokens/SnapshotToken.sol	44777d96c971738976785a75 5bea38d58e32f9c7
contracts/libraries/utils/ EnumerableMap.sol	c2fa7432211f3b4381688359e d316dcd30767d41
contracts/amm/interfaces/ IPancakeRouter.sol	af1d67a298fab838536be9d0d 4a507b484e7bf21
contracts/amm/interfaces/ IPancakePair.sol	a2b07ac4925605264c2cb0cb8 3c14827c34533fd
contracts/amm/interfaces/ IPancakeFactory.sol	8133c5b9cd563ab335695f58e 1e05c31bd08910f

contracts/libraries/utils/Strings.sol 444a4b378eeb1b3a7ac60150 0210f2b09bb1d7b2 contracts/libraries/utils/ EnumerableSet.sol ba5f82a34c23ede5e592cabe2 dfb5c9285f90e08 contracts/libraries/utils/ EnumerableSet.sol ff28b75e68496eff70710d1dad 8e7699a7371540 contracts/tokens/FaucetToken.sol d50c187cc161c8be0ba4fe2fdd 342de1219f4ebd contracts/access/TokenManager.sol fa5a9401cfb3eb559df185b324 f4d843d42c9435 contracts/libraries/utils/Address.sol 40ba11bb4b1e3ff517e21bb12 3913b65690215c5 contracts/libraries/utils/ ReentrancyGuard.sol 49394da5ad4c91f2b42f00b73 84dbf3f2cfa4b94 contracts/gmx/GmxFloor.sol 1a68a4a76a1d111050a03221 581efcd5a3b17de2 contracts/gmx/GmxFloor.sol df341545447df4bdcd481624e bc0d8ea7de0f9f1 contracts/gmx/GMX.sol aad72ec39ec2568dc2c7d3320 9a05be4d9081e44 contracts/gmx/MigrationHandler.sol 8448b4fd227228c5b505b01d2 36c0eb233283684 contracts/gmx/EsGMX.sol 1d37c610465abc8f07e6bd729 8345e1512ab2ab contracts/gmx/GmxMigrator.sol 1d37c610465abc8f07e6bd729 8345e15f12ab2ab contracts/gmx/GmxMigrator.sol 1ceb0b1f85e208b745086f101 318090fc76354fe		
contracts/access/Governable.sol dfb5c9285f90e08 contracts/libraries/utils/ EnumerableSet.sol 8e7699a7371540 contracts/tokens/FaucetToken.sol d50c187cc161c8be0ba4fe2fdd 342de1219f4ebd contracts/access/TokenManager.sol fa5a9401cfb3eb559df185b324 f4d843d42c9435 contracts/libraries/utils/Address.sol 40ba11bb4b1e3ff517e21bb12 3913b65690215c5 contracts/libraries/utils/ 49394da5ad4c91f2b42f00b73 84dbf3f2cfa4b94 contracts/gmx/GmxFloor.sol 1a68a4a76a1d111050a03221 581efcd5a3b17de2 contracts/gmx/GLP.sol df341545447df4bdcd481624e bc0d8ea7de0f9f1 contracts/gmx/GMX.sol 2ad72ec39ec2568dc2c7d3320 9a05be4d9081e44 contracts/gmx/MigrationHandler.sol 2ad72ec39ec2568dc2c7d3320 9a05be4d9081e44 contracts/access/interfaces/ ed2e089186d08606f9a422db1 2e274277ad4dded contracts/gmx/EsGMX.sol 1d37c610465abc8f07e6bd729 8345e15f12ab2ab contracts/gmx/GmxMigrator.sol 1ceb0b1f85e208b745086f101	contracts/libraries/utils/Strings.sol	
EnumerableSet.sol 8e7699a7371540 contracts/tokens/FaucetToken.sol d50c187cc161c8be0ba4fe2fdd 342de1219f4ebd contracts/access/TokenManager.sol fa5a9401cfb3eb559df185b324 f4d843d42c9435 contracts/libraries/utils/Address.sol 40ba11bb4b1e3ff517e21bb12 3913b65690215c5 contracts/libraries/utils/ ReentrancyGuard.sol 49394da5ad4c91f2b42f00b73 84dbf3f2cfa4b94 contracts/gmx/GmxFloor.sol 1a68a4a76a1d111050a03221 581efcd5a3b17de2 contracts/gmx/GLP.sol df341545447df4bdcd481624e bc0d8ea7de0f9f1 contracts/gmx/GMX.sol aad72ec39ec2568dc2c7d3320 9a05be4d9081e44 contracts/gmx/MigrationHandler.sol 8448b4fd227228c5b505b01d2 36c0eb233283684 contracts/access/interfaces/ IAdmin.sol ed2e089186d08606f9a422db1 2e274277ad4dded contracts/gmx/EsGMX.sol 1d37c610465abc8f07e6bd729 8345e15f12ab2ab contracts/gmx/GmxMigrator.sol 02bbee26ba7733017ab6e406 7672ab12d6729ed3 contracts/gmx/GmxMigrator.sol 1ceb0b1f85e208b745086f101	contracts/access/Governable.sol	
contracts/tokens/FaucetToken.sol 342de1219f4ebd contracts/access/TokenManager.sol fa5a9401cfb3eb559df185b324 f4d843d42c9435 contracts/libraries/utils/Address.sol 40ba11bb4b1e3ff517e21bb12 3913b65690215c5 contracts/libraries/utils/ ReentrancyGuard.sol 49394da5ad4c91f2b42f00b73 84dbf3f2cfa4b94 contracts/gmx/GmxFloor.sol 1a68a4a76a1d111050a03221 581efcd5a3b17de2 contracts/gmx/GLP.sol df341545447df4bdcd481624e bc0d8ea7de0f9f1 contracts/gmx/GMX.sol aad72ec39ec2568dc2c7d3320 9a05be4d9081e44 contracts/gmx/MigrationHandler.sol 8448b4fd227228c5b505b01d2 36c0eb233283684 contracts/access/interfaces/ IAdmin.sol ed2e089186d08606f9a422db1 2e274277ad4dded contracts/gmx/EsGMX.sol 1d37c610465abc8f07e6bd729 8345e15f12ab2ab contracts/gmx/GmxMigrator.sol 02bbee26ba7733017ab6e406 7672ab12d6729ed3 contracts/gmx/Gmx/Igrator.sol 1ceb0b1f85e208b745086f101		
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contracts/gmx/GLP.sol bc0d8ea7de0f9f1 contracts/gmx/GMX.sol aad72ec39ec2568dc2c7d3320 9a05be4d9081e44 contracts/gmx/MigrationHandler.sol 8448b4fd227228c5b505b01d2 36c0eb233283684 contracts/access/interfaces/ IAdmin.sol ed2e089186d08606f9a422db1 2e274277ad4dded contracts/gmx/EsGMX.sol 1d37c610465abc8f07e6bd729 8345e15f12ab2ab contracts/gmx/Gmx/Injury/Gmx/Injur	contracts/gmx/GmxFloor.sol	
contracts/gmx/GMX.sol 9a05be4d9081e44 contracts/gmx/MigrationHandler.sol 8448b4fd227228c5b505b01d2 36c0eb233283684 contracts/access/interfaces/ IAdmin.sol ed2e089186d08606f9a422db1 2e274277ad4dded contracts/gmx/EsGMX.sol 1d37c610465abc8f07e6bd729 8345e15f12ab2ab contracts/gmx/GmxMigrator.sol 02bbee26ba7733017ab6e406 7672ab12d6729ed3 contracts/gmx/GmxIou.sol 1ceb0b1f85e208b745086f101	contracts/gmx/GLP.sol	
contracts/gmx/MigrationHandler.sol 36c0eb233283684 contracts/access/interfaces/ IAdmin.sol ed2e089186d08606f9a422db1 2e274277ad4dded contracts/gmx/EsGMX.sol 1d37c610465abc8f07e6bd729 8345e15f12ab2ab contracts/gmx/GmxMigrator.sol 02bbee26ba7733017ab6e406 7672ab12d6729ed3 contracts/gmx/GmxIou.sol 1ceb0b1f85e208b745086f101	contracts/gmx/GMX.sol	
IAdmin.sol 2e274277ad4dded contracts/gmx/EsGMX.sol 1d37c610465abc8f07e6bd729 8345e15f12ab2ab contracts/gmx/GmxMigrator.sol 02bbee26ba7733017ab6e406 7672ab12d6729ed3 contracts/gmx/GmxIou.sol 1ceb0b1f85e208b745086f101	contracts/gmx/MigrationHandler.sol	
contracts/gmx/EsGMX.sol 8345e15f12ab2ab contracts/gmx/GmxMigrator.sol 02bbee26ba7733017ab6e406 7672ab12d6729ed3 contracts/gmx/Gmx/GmxIou.sol 1ceb0b1f85e208b745086f101		
contracts/gmx/GmxMigrator.sol 7672ab12d6729ed3 contracts/gmx/Gmx/ou.sol 1ceb0b1f85e208b745086f101	contracts/gmx/EsGMX.sol	
contracts/amy/(-imylou sol	contracts/gmx/GmxMigrator.sol	
	contracts/gmx/Gmxlou.sol	

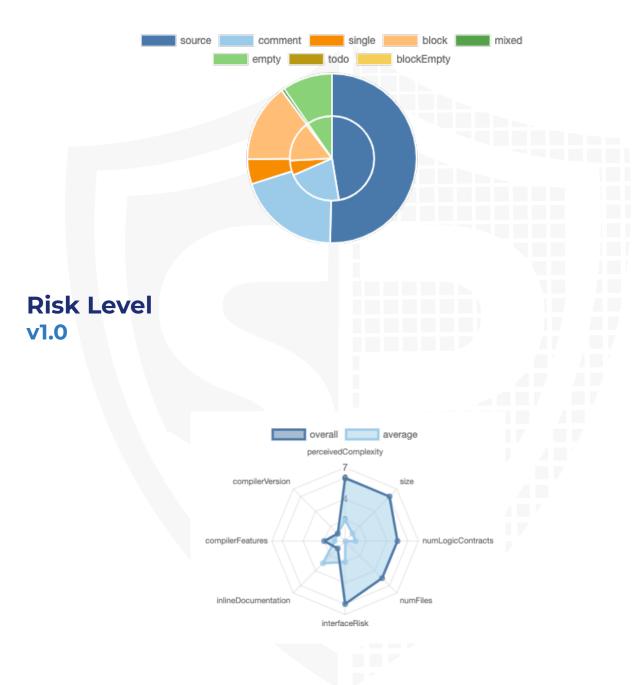
contracts/libraries/token/	494c092678a64d33825396ebf
SafeERC20.sol	9ff0625f5fb307d
contracts/libraries/token/ERC20.sol	223536578c8b208b540ce362 c36f8a7ea5d2478b
contracts/libraries/token/IERC20.sol	dcf4f07f947c93d5949a5fd780 3e411db32a7c21
contracts/tokens/interfaces/	bd0ab606e47640983d81ee5f6
IYieldToken.sol	e978458bad5e6df
contracts/tokens/interfaces/	20b7401e157fb33da458b50ee
IDistributor.sol	d205ecac6a174ac
contracts/tokens/interfaces/	360dbd26eb04be76c89ce6a4f
IMintable.sol	24e4f07b890d7db
contracts/tokens/interfaces/IUSDG.sol	269d4e7e802a2d9dc56c9d8a 175664a5c369cc2c
contracts/tokens/interfaces/	0993cb783747efce3a82ce671
IWETH.sol	449901ad71be1e5
contracts/libraries/token/ERC721/	37a39b62a3f38c5ad1545a6dd
IERC721.sol	08c976e53dff646
contracts/tokens/interfaces/	0a56ce7f21299450fbbbf07830
IYieldTracker.sol	7fdf76ba542251
contracts/tokens/interfaces/	8907934faad88399fa11d5b5c
IBaseToken.sol	cb5b85e0abc61bc
contracts/libraries/token/ERC721/	0ed1800f6b2884b12e5a652ae
ERC721.sol	fc9e41d49d9390a
contracts/tokens/interfaces/IBridge.sol	12e96b9eaaa8e39bcb2b595cf bedd44487fb0c7d
contracts/tokens/interfaces/IGLP.sol	cb4c850cf1a80ad9916724af8 77cd60a4bf9c339
contracts/libraries/token/ERC721/	085af91f67db310c21f684722d
IERC721Receiver.sol	8d5a8e488fefeb

contracts/libraries/token/ERC721/	9ca42611901c231b4acd37d67
IERC721Metadata.sol	184048456113955
contracts/libraries/token/ERC721/	63b8e526b2a490c58af723147
IERC721Enumerable.sol	04125d19023f8cc
contracts/gmx/interfaces/	8c1039087c4d7a469185cab5
IAmmRouter.sol	7e57ce3e79ded4f0
contracts/core/Vault.sol	3e28d7e70617ecc434e075aa 390f7d33a1a77db7
contracts/core/PositionUtils.sol	36fb734ac51ba2f4dc9959ecf3 db8c98da830744
contracts/gmx/interfaces/	da7d65044045e958cac4b4dc
IGmxMigrator.sol	2d6982b9d76aab03
contracts/gmx/interfaces/IGmxlou.sol	b1bf8e3091a6e4252ba680dd1 1e341d11aa6f005
contracts/core/VaultUtils.sol	aef40009826863374c7774747 428fd0b44bc9da1
contracts/core/interfaces/	d90d14592b63224485b4a143
IPositionRouter.sol	40ea2f6e5c357c5a
contracts/core/interfaces/ IPositionRouterCallbackReceiver.sol	7a52db1d3393b13a5df4c0fe3 76c12a3fe1d6a6e
contracts/core/interfaces/	ab9081b0bb4ce63cb0202cbb
IShortsTracker.sol	0c2dd71fb29367f0
contracts/core/interfaces/IRouter.sol	77d61cbe59c4f2c3ab13b9f95 e31ec7163ff3e67
contracts/core/interfaces/	57d0d7557e67e7d5255a28bd
IVaultPriceFeed.sol	e2184a57d919c97a
contracts/core/interfaces/	cc9690514916d87a46bbb2b4
IOrderBook.sol	1e064a6a19e13f64
contracts/core/interfaces/	10be398b1b704364462808e1
IGlpManager.sol	5d3ee32747be81f7

IVaultUtils.sol b9982cd9896 contracts/core/interfaces/IVault.sol 30982a3eeee b3eff16bbc98	e189177a5acc88
contracts/core/interfaces/IVault.sol b3eff16bbc98 contracts/core/interfaces/ 3325a49c5ed	3437e
	l13dee4456e561
	5fcf
contracts/core/PositionManager.sol eb06d5a59d8 d4645265415	39e0e8685a456a 576a60
contracts/core/OrderBook.sol 671f307a6bca 0f161e5cc2c6	a346ee32e63b97 6159
contracts/core/ShortsTracker.sol 6f5d8f11c71c 9c6c04bc680	45c10e51a476a8 626
contracts/core/PositionRouter.sol 8b19fa1192bc	dcc1bea583053c 60979
contracts/core/VaultPriceFeed.sol 50749ba34d6 c1d5cb31502	9357e4d240dedf 964c
contracts/core/GlpManager.sol beb704b46c6 477691cc34a	offef75f9d11b9ab df6
contracts/core/Router.sol fcc301a043e3	3e97162c354909 88e76
contracts/core/VaultErrorController.sol 007dd87b11d 510037839d6	lf74513362f534a 6d955
contracts/core/ 3ea6b190b4ff BasePositionManager.sol 560cb1bdc28	f2ad146852c71b 7cca

Metrics

Source Lines v1.0



Capabilities

Components



Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

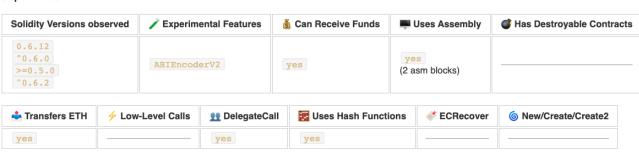


External	Internal	Private	Pure	View
846	1065	130	24	390

StateVariables

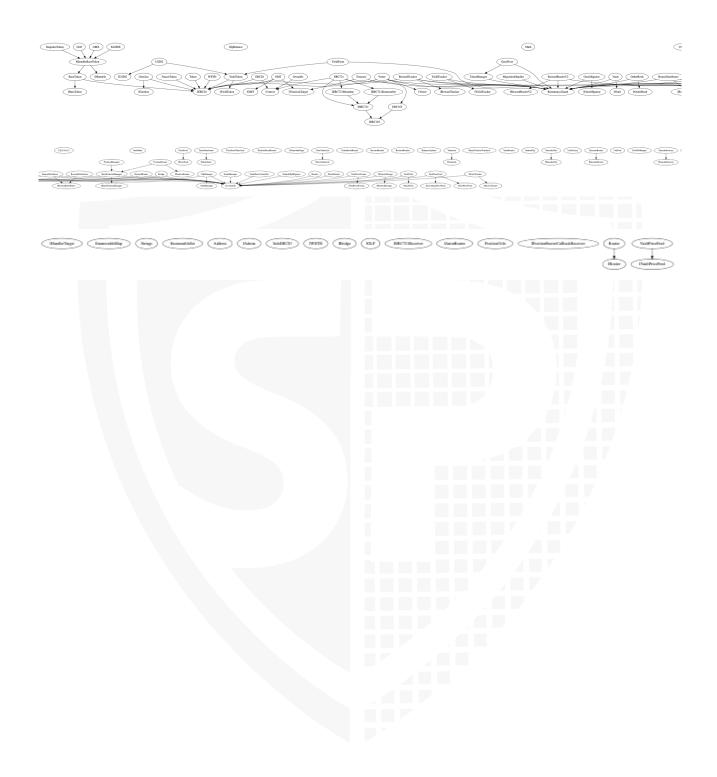


Capabilities





Inheritance Graph v1.0



CallGraph v1.0



Scope of Work/Verify Claims

The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .sol).

We will verify the following claims:

1. Overall checkup (Smart Contract Security)



Overall checkup (Smart Contract Security)



Legend

Attribute	Symbol
Verified / Checked	√
Partly Verified	
Unverified / Not checked	×
Not available	

Modifiers and public functions

v1.0

Note:

- Identical fork from GMX
- GMX
 - · Contracts inside are the same as the gmx-contracts directory
 - https://github.com/gmx-io/gmx-contracts/tree/master/ contracts

Ownership Privileges

· N/A

Please check if an OnlyOwner or similar restrictive modifier has been forgotten.

Source Units in Scope v1.0

File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score
contracts/staking/StakedGlpMigrator.sol	1		59	59	41	5	30
contracts/staking/GlpBalance.sol	1		68	68	50	1	34
contracts/staking/RewardRouterV2.sol	1		423	401	296	3	365
contracts/libraries/math/Math.sol	1		25	25	18	3	5
contracts/libraries/math/UQ112x112.sol	1		22	22	10	7	4
contracts/libraries/math/SafeMath.sol	1		159	159	39	106	10
contracts/oracle/PriceFeed.sol	1		51	49	35	2	25
contracts/oracle/FastPriceEvents.sol	1		23	23	15	1	13
contracts/oracle/FastPriceFeed.sol	1		476	468	330	35	292
contracts/tokens/YieldFarm.sol	1		29	29	20	1	22
contracts/tokens/YieldTracker.sol	1		117	117	85	7	80
contracts/tokens/YieldToken.sol	1		220	220	166	2	146
contracts/tokens/TimeDistributor.sol	1		124	120	89	1	68
contracts/tokens/Token.sol	1		327	327	105	185	97
contracts/staking/BonusDistributor.sol	1		94	94	68	2	64
contracts/tokens/USDG.sol	1		36	36	25	1	24
contracts/peripherals/PriceFeedTimelock.sol	1		302	290	234	1	219
contracts/staking/interfaces/IRewardDistributor.sol		1	10	6	3	1	9
contracts/peripherals/EsGmxBatchSender.sol	1		60	55	38	1	34
contracts/oracle/interfaces/IChainlinkFlags.sol		1	7	6	3	1	3
contracts/peripherals/GmxTimelock.sol	1		563	514	422	5	378
contracts/libraries/introspection/IERC165.sol		1	24	23	3	18	3
contracts/staking/interfaces/IRewardRouterV2.sol		1	8	6	3	1	5
contracts/peripherals/OrderBookReader.sol	1		143	131	98	4	106
contracts/gambit-token/interfaces/IGMT.sol		1	8	6	3	1	5
contracts/tokens/BaseToken.sol	1		223	223	169	2	148
contracts/libraries/introspection/ERC165.sol	1		54	54	16	31	9
contracts/peripherals/RewardReader.sol	1		58	58	50	1	80
contracts/staking/interfaces/IRewardTracker.sol		1	19	6	3	1	27
contracts/referrals/ReferralReader.sol	1		18	18	12	1	20
contracts/tokens/MintableBaseToken.sol	1		31	31	21	1	21
contracts/peripherals/BalanceUpdater.sol	1		30	25	18	1	14
contracts/tokens/WETH.sol	1		322	322	103	185	90
contracts/peripherals/Timelock.sol	1		618	574	463	7	457
contracts/referrals/ReferralStorage.sol	1		119	119	89	5	62
contracts/tokens/Bridge.sol	1		38	38	27	2	30
contracts/peripherals/Reader.sol	1		398	398	329	4	454
contracts/oracle/interfaces/IFastPriceFeed.sol		1	20	6	3	1	29
contracts/staking/interfaces/IVester.sol		1	28	6	3	1	37
contracts/peripherals/ShortsTrackerTimelock.sol	1		230	230	168	1	162
contracts/peripherals/VaultReader.sol	1		76	76	63	1	78
contracts/peripherals/BatchSender.sol	1		52	52	38	1	26
contracts/gambit-token/Treasury.sol	1		169	166	126	11	131
·							

contracts/gambit-token/GMT.sol	1		163	163	111	13	97
contracts/staking/StakedGlp.sol	1		97	97	70	4	53
contracts/oracle/interfaces/IFastPriceEvents.sol		1	7	6	3	1	3
contracts/oracle/interfaces/ISecondaryPriceFeed.sol		1	7	6	3	1	3
contracts/oracle/interfaces/IPriceFeed.sol		1	11	6	3	1	11
					3		
contracts/referrals/interfaces/IReferralStorage.sol		1	15	6		1	19
contracts/staking/StakeManager.sol	1		17	12	8	1	8
contracts/staking/Vester.sol	1		377	377	277	11	229
contracts/staking/RewardDistributor.sol	1		83	83	61	2	50
contracts/libraries/access/Ownable.sol	1		68	68	27	33	23
contracts/amm/PancakePair.sol	1		23	23	17	4	13
contracts/amm/UniFactory.sol	1		7	7	4	1	2
contracts/amm/PancakeRouter.sol	1		37	28	19	3	15
contracts/amm/UniPool.sol	1		35	31	17	10	6
contracts/amm/UniNftManager.sol	1		51	34	28	2	10
contracts/staking/RewardTracker.sol	1		306	303	223	4	212
contracts/staking/RewardRouter.sol	1		272	260	187	3	210
contracts/amm/PancakeFactory.sol	1		33	33	25	1	15
contracts/peripherals/interfaces/ITimelock.sol		1	12	6	3	1	13
contracts/peripherals/interfaces/ITimelockTarget.sol		1	8	6	3	1	5
contracts/peripherals/interfaces/IGmxTimelock.sol		1	9	6	3	1	7
contracts/peripherals/interfaces/IHandlerTarget.sol		1	8	6	3	1	5
contracts/libraries/GSN/Context.sol	1		24	24	10	12	1
contracts/tokens/SnapshotToken.sol	1		18	18	13	1	15
contracts/libraries/utils/EnumerableMap.sol	1		237	237	81	130	30
contracts/amm/interfaces/IPancakeRouter.sol		1	16	6	3	1	3
contracts/amm/interfaces/IPancakePair.sol		1	7	6	3	1	3
		1	7	6	3	1	3
contracts/amm/interfaces/IPancakeFactory.sol							
contracts/libraries/utils/Strings.sol	1		34	34	22	9	18
contracts/access/Governable.sol	1		20	20	14	1	8
contracts/libraries/utils/EnumerableSet.sol	1		243	243	77	136	29
contracts/tokens/FaucetToken.sol	1		350	350	125	185	103
contracts/access/TokenManager.sol	1		230	230	188	1	196
contracts/libraries/utils/Address.sol	1		189	169	78	113	47
contracts/libraries/utils/ReentrancyGuard.sol	1		62	62	15	38	5
contracts/gmx/GmxFloor.sol	1		116	116	85	3	82
contracts/gmx/GLP.sol	1		14	14	9	1	8
contracts/gmx/GMX.sol	1		14	14	9	1	8
contracts/gmx/MigrationHandler.sol	1		159	136	107	2	107
contracts/access/interfaces/IAdmin.sol		1	7	6	3	1	3
contracts/gmx/EsGMX.sol	1		14	14	9	1	8
contracts/gmx/GmxMigrator.sol	1		239	225	175	1	161
contracts/gmx/Gmxlou.sol	1		66	66	45	9	36
contracts/libraries/token/SafeERC20.sol	1		75	74	33	32	25
contracts/libraries/token/ERC20.sol	1		306	306	89	185	81
contracts/libraries/token/IERC20.sol		1	77	26	17	57	13
contracts/tokens/interfaces/IYieldToken.sol		1	9	6	3	1	7
contracts/tokens/interfaces/IDistributor.sol		1	10	6	3	1	9
contracts/tokens/interfaces/IMintable.sol		1	10	6	3	1	9
contracts/tokens/interfaces/IUSDG.sol		1	10	6	3	1	9
CONTRACTOR CONTROL CON		1	9	6	3	1	10

contracts/libraries/token/ERC721/IERC721.sol		1	129	62	40	99	21
contracts/tokens/interfaces/IYieldTracker.sol		1	10	6	3	1	9
contracts/tokens/interfaces/IBaseToken.sol		1	11	6	3	1	11
contracts/libraries/token/ERC721/ERC721.sol	1		477	464	173	222	161
contracts/tokens/interfaces/IBridge.sol		1	8	6	3	1	5
contracts/tokens/interfaces/IGLP.sol		1	8	6	3	1	5
contracts/libraries/token/ERC721/IERC721Receiver.sol		1	21	20	3	15	3
contracts/libraries/token/ERC721/IERC721Metadata.sol		1	27	16	4	14	9
contracts/libraries/token/ERC721/IERC721Enumerable.sol		1	29	20	8	16	9
contracts/gmx/interfaces/IAmmRouter.sol		1	23	6	3	1	5
contracts/core/Vault.sol	1		1236	1211	898	96	662
contracts/core/PositionUtils.sol	1		84	65	39	7	37
contracts/gmx/interfaces/IGmxMigrator.sol		1	7	6	3	1	3
contracts/gmx/interfaces/IGmxlou.sol		1	7	6	3	1	3
contracts/core/VaultUtils.sol	1		171	171	122	22	113
contracts/core/interfaces/IPositionRouter.sol		1	10	6	3	1	9
contracts/core/interfaces/IPositionRouterCallbackReceiver.sol		1	7	6	3	1	3
contracts/core/interfaces/IShortsTracker.sol		1	27	6	3	1	13
contracts/core/interfaces/IRouter.sol		1	11	6	3	1	11
contracts/core/interfaces/IVaultPriceFeed.sol		1	27	6	3	1	33
contracts/core/interfaces/IOrderBook.sol		1	44	6	3	1	13
contracts/core/interfaces/IGIpManager.sol		1	20	8	4	1	25
contracts/core/interfaces/IVaultUtils.sol		1	17	6	3	1	23
contracts/core/interfaces/IVault.sol		1	128	8	4	1	169
contracts/core/interfaces/IBasePositionManager.sol		1	8	6	3	1	5
contracts/core/PositionManager.sol	1		314	259	190	20	195
contracts/core/OrderBook.sol	1		984	871	745	27	310
contracts/core/ShortsTracker.sol	1		221	189	138	11	108
contracts/core/PositionRouter.sol	1		790	727	583	18	241
contracts/core/VaultPriceFeed.sol	1		380	375	279	21	237
contracts/core/GlpManager.sol	1		260	260	200	5	202
contracts/core/Router.sol	1		221	221	176	5	177
contracts/core/VaultErrorController.sol	1		15	15	11	1	12
contracts/core/BasePositionManager.sol	1		327	316	243	8	153
Totals	81	47	16158	15023	10131	2303	8957

Legend

Attribute	Description
Lines	total lines of the source unit
nLines	normalised lines of the source unit (e.g. normalises functions spanning multiple lines)
nSLOC	normalised source lines of code (only source-code lines; no comments, no blank lines)
Comment Lines	lines containing single or block comments

	a custom complexity score derived from code statements that
Complexity Score	are known to introduce code complexity (branches, loops, calls,
	external interfaces,)



Audit Results

Critical issues

No critical issues

High issues

No high issues

Medium issues

No medium issues

Low issues

Issue	File	Type	Line	Description
#1	All	Multiple pragma is set		Some of the contracts contain different pragma versions which is not recommended for deployment. We recommend to have the same pragma in all contracts and also to update the old pragma versions to the new ones.
#2	All	Old Compiler Version		The contracts use a very old compiler version which is not recommended for deployment as it is susceptible to known vulnerabilities

Informational issues

Issue	File	Type	Line	Description
#1	All	Contract doesn't import npm packages from source (like OpenZeppelin etc.)		We recommend importing all packages from npm directly without flattening the contract. Functions could be modified or can be susceptible to vulnerabilities

Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information https://docs.soliditylang.org/en/latest/natspec-format.html) for your contracts to provide rich documentation for functions, return variables and more. This helps investors to make clear what that variables, functions etc. do.

07. April 2023:

- · This project consists of the following forks
 - · GMX
- Read whole report and modifiers section for more information
- The low issues that exist in the GMX codebase still exist in the forked code.
- We recommend using a multisig wallet for the owner address to prevent any risk of the loss of private key
- Do your own research here

SWC Attacks

ID	Title	Relationships	Status
<u>SW</u> <u>C-1</u> <u>36</u>	Unencrypted Private Data On-Chain	CWE-767: Access to Critical Private Variable via Public Method	PASSED
<u>SW</u> <u>C-1</u> <u>35</u>	Code With No Effects	CWE-1164: Irrelevant Code	PASSED
<u>SW</u> <u>C-1</u> <u>34</u>	Message call with hardcoded gas amount	CWE-655: Improper Initialization	PASSED
<u>SW</u> <u>C-1</u> <u>33</u>	Hash Collisions With Multiple Variable Length Arguments	CWE-294: Authentication Bypass by Capture-replay	PASSED
<u>SW</u> <u>C-1</u> <u>32</u>	Unexpected Ether balance	CWE-667: Improper Locking	PASSED
<u>SW</u> <u>C-1</u> <u>31</u>	Presence of unused variables	CWE-1164: Irrelevant Code	PASSED
<u>SW</u> <u>C-1</u> <u>30</u>	Right-To-Left- Override control character (U+202E)	CWE-451: User Interface (UI) Misrepresentation of Critical Information	PASSED
<u>SW</u> <u>C-1</u> <u>29</u>	Typographical Error	CWE-480: Use of Incorrect Operator	PASSED
<u>SW</u> <u>C-1</u> <u>28</u>	DoS With Block Gas Limit	CWE-400: Uncontrolled Resource Consumption	PASSED

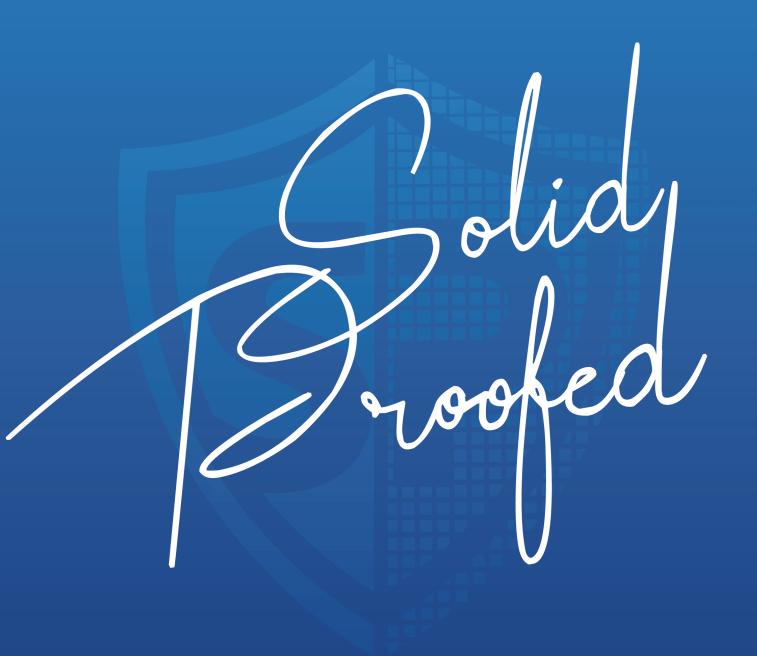
<u>SW</u> <u>C-1</u> <u>27</u>	Arbitrary Jump with Function Type Variable	CWE-695: Use of Low-Level Functionality	PASSED
<u>SW</u> <u>C-1</u> <u>25</u>	Incorrect Inheritance Order	CWE-696: Incorrect Behavior Order	PASSED
<u>SW</u> <u>C-1</u> <u>24</u>	Write to Arbitrary Storage Location	CWE-123: Write-what-where Condition	PASSED
<u>SW</u> <u>C-1</u> <u>23</u>	Requirement Violation	CWE-573: Improper Following of Specification by Caller	PASSED
<u>SW</u> <u>C-1</u> <u>22</u>	Lack of Proper Signature Verification	CWE-345: Insufficient Verification of Data Authenticity	PASSED
SW C-1 21	Missing Protection against Signature Replay Attacks	CWE-347: Improper Verification of Cryptographic Signature	PASSED
SW C-1 20	Weak Sources of Randomness from Chain Attributes	CWE-330: Use of Insufficiently Random Values	PASSED
<u>SW</u> <u>C-11</u> <u>9</u>	Shadowing State Variables	CWE-710: Improper Adherence to Coding Standards	PASSED
<u>SW</u> <u>C-11</u> <u>8</u>	Incorrect Constructor Name	CWE-665: Improper Initialization	PASSED
<u>SW</u> <u>C-11</u> <u>7</u>	Signature Malleability	CWE-347: Improper Verification of Cryptographic Signature	PASSED

<u>SW</u> <u>C-11</u> <u>6</u>	Timestamp Dependence	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
<u>SW</u> <u>C-11</u> <u>5</u>	Authorization through tx.origin	CWE-477: Use of Obsolete Function	PASSED
<u>SW</u> <u>C-11</u> <u>4</u>	Transaction Order Dependence	CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')	PASSED
<u>SW</u> <u>C-11</u> <u>3</u>	DoS with Failed Call	CWE-703: Improper Check or Handling of Exceptional Conditions	PASSED
<u>SW</u> <u>C-11</u> <u>2</u>	Delegatecall to Untrusted Callee	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
<u>SW</u> <u>C-11</u> <u>1</u>	Use of Deprecated Solidity Functions	CWE-477: Use of Obsolete Function	PASSED
<u>SW</u> <u>C-11</u> <u>O</u>	Assert Violation	CWE-670: Always-Incorrect Control Flow Implementation	PASSED
SW C-1 09	Uninitialized Storage Pointer	CWE-824: Access of Uninitialized Pointer	PASSED
<u>SW</u> <u>C-1</u> <u>08</u>	State Variable Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED
SW C-1 07	Reentrancy	CWE-841: Improper Enforcement of Behavioral Workflow	PASSED
<u>SW</u> <u>C-1</u> <u>06</u>	Unprotected SELFDESTRUC T Instruction	CWE-284: Improper Access Control	PASSED

SW	Unprotected	CIA/E 22 (I	
<u>C-1</u> <u>05</u>	Ether Withdrawal	CWE-284: Improper Access Control	PASSED
<u>SW</u> <u>C-1</u> <u>04</u>	Unchecked Call Return Value	CWE-252: Unchecked Return Value	PASSED
<u>SW</u> <u>C-1</u> <u>03</u>	Floating Pragma	CWE-664: Improper Control of a Resource Through its Lifetime	NOT PASSED
<u>SW</u> <u>C-1</u> <u>02</u>	Outdated Compiler Version	CWE-937: Using Components with Known Vulnerabilities	NOT PASSED
<u>SW</u> <u>C-1</u> <u>01</u>	Integer Overflow and Underflow	CWE-682: Incorrect Calculation	PASSED
<u>SW</u> <u>C-1</u> <u>00</u>	Function Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED







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