Technical Whitepaper

AdventureWurld Technical Whitepaper

Disclaimer

This document is a technical reference. Contract addresses, network parameters, multisig configurations, and governance contracts reflect the state of the AdventureWurld network as of the date issued. The platform is in active development and governed by the DAO, so configurations, contracts, and parameters may change.

GULD Token · Multi-Chain Infrastructure · Decentralized Governance

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1. Executive Summary

This whitepaper documents the full technical architecture of the AdventureWurld network, including all smart contract addresses, bridge infrastructure, multi-signature custody arrangements, governance contracts, and token mechanics. It is intended as a reference document for custodians, technical integrators, and governance participants.

2. Network Overview

AdventureWurld operates two network environments: a Testnet for development and staging, and a Mainnet for production activity. Both networks are built on the BlockFabric infrastructure stack and are accessible via dedicated RPC endpoints.

2.1 Network Parameters

Parameter	Testnet	Mainnet
Network Name	AdventureWurld Testnet	AdventureWurld Mainnet
Network ID / Chain ID	5966	24202723
RPC URL	https://rpc.testnet.adventurewurld.blockfabric.net	https://rpc.adventurewurld.blockfabric.net
Block Explorer	https://adventurewurld-testnet.elevatescan.com/ ↗	https://adventurewurld.elevatescan.com/ ↗

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3. Token Architecture — GULD

The GULD token is the native digital asset of the AdventureWurld ecosystem. It is a multichain token, enabled by synthetic representations (i.e. ERC-20 token contracts) deployed on Ethereum, Binance Smart Chain, and Base with additional on-chain and off-chain bridging infrastructure to facilitate token movement between chains. The native GULD token can be bridged to public chains via the PrivateChainBridge smart contract.

3.1 Token Details

GULD Token Identity

Token Name: GULD

Token Symbol: GULD

Deployed Networks: AdventureWurld Mainnet, Ethereum, Binance Smart Chain, Base

Distribution Start: October 1, 2025

4. AdventureWurld Mainnet — Smart Contracts

The following contracts are deployed on the AdventureWurld Mainnet (ChainID: 24202723) and govern core protocol functions including bridging, token custody, distribution, governance, and gas operations.

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4.1 Bridge & Custody Infrastructure

Contract / Role	Address
PrivateChainBridge	0x14d6c649292c5c9790c5196d1a9ea039307947a1
Bridge Fee Receiver	0x18946817369E5D6Aa4b3894C298319aEbf01F857
Token Vault	0xD48faec2075a2b35C719B4C985fecab2cB7c44e5
Multisig SAFE (Bridge Owner)	0xE8f86dF9DdF417C47e99C239409e517C6f453D95

4.2 Distribution & Lockup

Contract / Role	Address
Lockup Contract	0x47e9Fbef8C83A1714F1951F142132E6e90F5fa5D
Distribution Contract	0x8Be503bcdEd90ED42Eff31f56199399B2b0154CA
Distribution Issuer (EOA)	0x499b7F4E84D7ABf93D4f00D80B2ef5310630b1Aa

4.3 Gnosis Safe Multisig

Contract / Role	Address
Gnosis Singleton	0x3E5c63644E683549055b9Be8653de26E0B4CD36E
Gnosis Multisig	0x1aE42a80dAE5D3A1AB06673fCCeFe7a887D024b4

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4.4 Decentralized Governance Framework (DGF)

The DGF governs node ownership and network-wide voting. The approver role is held by a designated custodian via a hardware-secured wallet.

Contract / Role	Address
NodeOwnership Contract (DGF)	0xD5ba686D221d11AC765fFb916Ddf679066eC4e8d
GlobalVoting Contract (DGF)	0xBe6BA981BcE5f22923F930acdA824Aeae3B72335
DGF Approver	0x04Dd1C24e89a34D1373e147Ff3FAd3E4Fe7cCCC1

4.5 Ledger / Gas Operations

These contracts support day-to-day operational functions including gas provisioning and on-chain action execution.

Contract / Role	Address
Gas Tank	0x9D2aACA8C3f01F9378fD45235Eb75E134fe70ED4
Action Contract	0xD5Db7829C37eCe36F355257D2F1C3d3a615b1809
Distribution Contract (Ledger)	0xf107d54CD2e5A0b96f4f6641454cFfF663df020B

5. Public Bridge — Ethereum Mainnet

The Ethereum public bridge enables GULD tokens to be transferred between the AdventureWurld Mainnet and the Ethereum network. The bridge and token contracts are owned and configurable by a 2-of-3 Multisig SAFE

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5.1 Ethereum Bridge Contracts

Contract / Role	Sepolia (Testnet)	Ethereum (Mainnet)
PublicBridge	0xe6d50fF90532fF1926D32B8B4a757Cb44af128E5	0xe6d50fF90532fF1926D32B8B4a757Cb44af128E5
Token Vault	0xDA46EE2535641B2F1411a7B11904e6085395EE37	0xDA46EE2535641B2F1411a7B11904e6085395EE37
ERC-20 Token (GULD)	0x14d6c649292c5c9790c5196d1a9ea039307947a1	0x14d6c649292c5c9790c5196d1a9ea039307947a1
Multisig SAFE (Bridge+Token)	—	0x49b9D4a14c21f01f92644662508FF0228C941bD8
Bridge Fee Receiver	—	0x18946817369E5D6Aa4b3894C298319aEbf01F857

5.2 Ethereum Multisig Signers

Signer	Address
Signer 1	0x5c0125c76066215666DFe4751Dd38e484226BCc2
Signer 2	0x2312255e6D97D29F9CC623cB2fF7356318E37108
Signer 3	0x0079466ED382CC6C60E8a8380d1E8c1b2Cf47A71

6. Public Bridge — Binance Smart Chain

The BSC bridge enables GULD tokens to circulate on Binance Smart Chain. The bridge and token ownership are jointly controlled by a dedicated Multisig SAFE with the same three signers as the Ethereum bridge.

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6.1 BSC Bridge Contracts

Contract / Role	BSC Testnet	Binance Mainnet
PublicBridge	0xe6d50fF90532fF1926D32B8B4a757Cb44af128E5	0xe6d50fF90532fF1926D32B8B4a757Cb44af128E5
Token Vault	0xDA46EE2535641B2F1411a7B11904e6085395EE37	0xDA46EE2535641B2F1411a7B11904e6085395EE37
Token — GULD	—	0x14D6C649292c5c9790c5196D1a9EA039307947a1
Multisig SAFE (Bridge+Token)	—	0x2CC70734CbafB4AF7373A77fDc3dE250557a4A79
Bridge Fee Receiver	—	0x18946817369E5D6Aa4b3894C298319aEbf01F857

6.2 BSC Multisig Signers

Signer	Address
Signer 1	0x5c0125c76066215666DFe4751Dd38e484226BCc2
Signer 2	0x2312255e6D97D29F9CC623cB2fF7356318E37108
Signer 3	0x0079466ED382CC6C60E8a8380d1E8c1b2Cf47A71

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7. Public Bridge — Base

The Base bridge provides GULD token interoperability on the Base Layer-2 network. It shares the same token contract address as the BSC deployment and uses a dedicated Multisig SAFE for ownership management.

7.1 Base Bridge Contracts

Contract / Role	Base Sepolia (Testnet)	Base (Mainnet)
PublicBridge	0xe6d50ff90532ff1926d32b8b4a757cb44af128e5	0xe6d50ff90532ff1926d32b8b4a757cb44af128e5
Token Vault	0xDA46EE2535641B2F1411a7B11904e6085395EE37	0xDA46EE2535641B2F1411a7B11904e6085395EE37
Token (GULD)	—	0x14D6C649292c5c9790c5196D1a9EA039307947a1
Multisig SAFE (Bridge+Token)	—	0xB930802a16BD4b823D6E0a380101f63007547dC9
Bridge Fee Receiver	—	0x18946817369E5D6Aa4b3894C298319aEbf01F857

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7.2 Base Multisig Signers

Signer	Address
Signer 1	0x5c0125c76066215666DFe4751Dd38e484226BCc2
Signer 2	0x2312255e6D97D29F9CC623cB2fF7356318E37108
Signer 3	0x0079466ED382CC6C60E8a8380d1E8c1b2Cf47A71

8. Cross-Chain Architecture Summary

AdventureWurld employs a hub-and-spoke bridging model. The AdventureWurld Mainnet serves as the canonical hub. All GULD tokens on external networks (Ethereum, BSC, Base) are backed 1:1 by assets locked in the corresponding Token Vault on each chain.

Key architectural properties include:

- Unified token contract address across BSC and Base deployments
- Shared bridge fee receiver address across all three public chains
- Consistent 3-signer multisig governance on all public bridges
- Separate Multisig SAFE per public chain for isolation and security
- PrivateChainBridge contract manages the Mainnet side of all cross-chain transfers

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9. Governance Framework

AdventureWurld governance is managed through the Decentralized Governance Framework (DGF), consisting of two on-chain contracts: the NodeOwnership Contract and the GlobalVoting Contract. These enable weighted governance participation based on node ownership.

9.1 DGF Roles

Role	Contract / Address	Notes
Node Ownership	0xD5ba686D221d11AC765fFb916Ddf679066eC4e8d	Manages DGF node registration and ownership records
Global Voting	0xBe6BA981BcE5f22923F930acdA824Afae3B72335	Facilitates network-wide governance votes
DGF Approver	0x04Dd1C24e89a34D1373e147Ff3FAd3E4Fe7cCCC1	Admin role held by Blockade

The DGF Approver address is held on a Ledger hardware device, ensuring that the most privileged governance action remains air-gapped from hot wallet risk. All proposals that are submitted must be reviewed and approved by the Approver role prior to going live for a vote. The Approver will also set the start and end dates of the vote.

10. Security & Custody Model

AdventureWurld employs a layered custody model across all critical protocol functions. The following principles underpin the security architecture:

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10.1 Multi-Signature Controls

All bridge and token ownership on public chains is managed through Gnosis SAFE multisig contracts. The current signing quorum requires 2 of 3 designated signers to authorize any transaction affecting bridge contracts, token ownership, or vault withdrawals. This prevents single points of failure and requires collusion of multiple custodians to execute sensitive operations.

10.2 Hardware Wallet Custody

The DGF Approver role — the highest-privilege governance function on the AdventureWurld network — is held exclusively on a Ledger hardware wallet. This ensures the key never exists in memory on a networked device, and all DGF approval transactions must be physically confirmed on the device.

10.3 Separation of Concerns

Bridge fee collection, token vault management, distribution issuance, and governance approval are held by distinct addresses. This limits the blast radius of any single key compromise and provides a clear audit trail of on-chain activity by function.

10.4 Testnet Isolation

All protocol components have corresponding testnet deployments on Sepolia (Ethereum), BSC Testnet, and Base Sepolia. Production contracts are never used for testing, and testnet deployments use equivalent contract logic to enable safe pre-production validation.

11. Related Resources

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Resource	URL / Reference
AdventureWurld Mainnet RPC	https://rpc.adventurewurld.blockfabric.net
AdventureWurld Testnet RPC	https://rpc.testnet.adventurewurld.blockfabric.net
Block Explorer	https://adventurewurld.elevatescan.com ↗
DGF Website	https://adventurewurld.node-governance.io ↗

12. Disclaimer

This document is provided for informational and technical reference purposes only. All contract addresses, network parameters, and governance configurations were accurate as of the Distribution Start Date of October 1, 2025. Recipients are advised to verify all on-chain data independently. This document does not constitute financial, legal, or investment advice. Unauthorized distribution is prohibited.

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Next
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