

SynArc

GOVERNANCE & ASSET INFRASTRUCTURE FOR THE AGENTIC ECONOMY

Official Developer Documentation & System Architecture Portal

Deployed on Arc Testnet -- Powered by Circle USD Stack

SYNARC DAO WORK GROUP

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Getting Started

Welcome to SynArc! This section contains guides on how to configure your environment and connect your wallet to start participating in the on-chain agentic economy.

What is SynArc-

SynArc is governance infrastructure for the agentic economy -- enabling DAOs, AI agents, and autonomous systems to coordinate, vote, and manage USDC-native treasuries on Arc. It is the first multi-DAO governance layer built natively on Arc with Circle's full stablecoin stack.

Ecosystem Purpose

By combining secure OpenZeppelin Governor frameworks, timelocked vaults, and multi-asset reserves, SynArc provides robust administrative security for digital assets.

How to Connect Your Wallet

SynArc leverages Privy authentication to enable frictionless onboarding. You do not need a pre-configured Web3 wallet like MetaMask to participate.

1. Click the **Connect Wallet** button in the page header or sidebar.
 2. Sign in using your **Google account, Twitter / X, Discord**, or standard **Email**.
 3. Alternatively, click **Detect Wallets** to connect external hardware or browser extension accounts like MetaMask or Coinbase Wallet.
 4. Once connected, Privy automatically provisions a secure, non-custodial embedded wallet key secured directly via your device hardware.
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How to Switch to Arc Testnet

SynArc requires your connected wallet to be configured for Arc Testnet to query balances and execute contract operations.

Method 1: Automatic

If you are on another network, SynArc will display a **Switch to Arc** banner on your settings page. Simply click this banner to automatically authorize a network switch in your wallet.

Method 2: Manual Parameters

Add the custom network configuration manually in your wallet: * **Network Name:** Arc Testnet * **Chain ID:** 5042002 * **RPC URL:** <https://rpc.testnet.arc.network> * **Currency Symbol:** USDC * **Block Explorer:** <https://testnet.arcscan.app>

How to Get USDC on Arc Testnet

Arc is a stablecoin-native network where transaction gas fees are denominated directly in stablecoins like USDC. To interact with contracts, you require testnet USDC:

1. Make sure you have the **Canteen ARC CLI** installed by running: `bash uv tool install git+https://github.com/the-canteen-dev/ARC-cli`
 2. Retrieve a developer faucet allotment in your terminal using `arc-canteen rpc-url` or the official Canteen platform developer portal.
 3. Use the faucet link inside the developer dashboard to mint mock testnet USDC directly to your connected wallet address.
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Light/Dark Mode

SynArc supports a highly polished presentation mode toggleable directly in the interface.

- **Toggle available in Settings page:** Easily switch between light and dark themes via the Appearance setting.
- **Dark mode is default:** SynArc defaults to dark mode on first load to optimize readability.
- **Preference saved across sessions:** Your selected theme preference is persisted automatically in local storage.

Governance

SynArc enables decentralized, on-chain administration modeled after standard, battle-tested governance architectures. This section details the proposal lifecycle, authoring criteria, and voting rules.

How Proposals Work

SynArc utilizes an on-chain, decentralized lifecycle modeled after the standard OpenZeppelin Governor contract.

1. **Submission & Pending State:** A proposal is submitted with executable transactions. It enters a **Pending** delay allowing delegates to adjust voting weight snapshots.
2. **Active Voting Phase:** The proposal enters the **Active** voting window. Members cast votes (For, Against, Abstain) signed cryptographically via their wallets.
3. **Resolution & Timelock Controller:** If voting requirements and the 4% Quorum are met, the proposal enters the **Timelock Controller** buffer to prevent immediate execution surprises.
4. **On-Chain Execution:** Once the timelock expires, anyone can execute the proposal transactions, triggering on-chain transfers or changing system properties.

How to Create a Proposal

If your voting power meets or exceeds the proposal threshold, you can author a proposal:

1. Navigate to the **Proposals** tab and click **New Proposal**.
2. Fill in the **Title**, **Description**, **Category**, and **Execution Duration** parameters.
3. Under **Treasury Impact**, define the disbursement value in USDC, and assign the destination **Target EVM address**.
4. Confirm the transaction inside your Privy embedded wallet. Once mined, your proposal enters the **Pending** phase.

How to Vote

Active proposals can be voted on by any member with a balance greater than 0 sARC at the snapshot block:

1. Select any proposal currently marked as **Active** from the Proposals grid.
2. Select **For**, **Against**, or **Abstain** on the voting module card.
3. *Optional:* Add a text reason detailing your voting rationale.
4. Author the signature inside your wallet to submit your vote on-chain.

Proposal States Explained

- **Pending:** Proposal has been submitted but voting snapshot has not been finalized yet. Users can delegate weight.
- **Active:** Voting is actively open. Users can record cryptographic signatures on-chain to support or oppose.
- **Executed:** The proposal has passed quorum, satisfied timelock delays, and has been successfully executed on-chain.
- **Defeated:** The voting window has closed but the proposal failed to meet quorum or received majority Against votes.

Voting Power: USDC + SynArcToken

Voting weight in the SynArc DAO ecosystem is governed by two complementary tokens:

1. SynArcToken (sARC)

The core governance asset. 1 sARC corresponds to 1 raw vote. sARC tokens are fully delegatable and record

check-pointed balance history on-chain to prevent double-voting.

2. USDC Balance Weight

To align capital with operations, SynArc utilizes USDC balances to calculate dynamic delegation multipliers, reinforcing stable, institutional-grade decision metrics.

Treasury

The SynArc Treasury manages all pool funding, inflow tracking, stablecoin reserves, and programmatic capital deployment.

How the Treasury Works

The SynArc Treasury is a fully on-chain multi-asset vault managed strictly by smart contracts. The treasury can hold multiple stablecoin assets (USDC and EURC), allowing the DAO to operate across major regional reserve currencies.

All capital inflows, allocations, and outflows are tracked inside the immutable ledger, precluding single-point-of-failure vulnerabilities like manual multi-sig overrides.

How to Deposit USDC

To fund the DAO operating runway, members can deposit USDC directly using the frontend:

1. Navigate to the **Treasury** page in the sidebar.
 2. Locate the **Deposit Portal** on the right side of the dashboard.
 3. Ensure the **USDC** tab is selected.
 4. Enter the deposit amount or click **MAX** to fetch your current wallet balance.
 5. Click **Deposit USDC** and authorize the ERC20 approval and deposit transactions inside your Privy wallet.
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How to Deposit EURC

In addition to USDC, SynArc natively supports EURC stablecoin deposits:

1. Toggle the token selector inside the **Deposit Portal** to **EURC**.
 2. Input your desired deposit amount in EURC.
 3. Authorize the approval transaction followed by the deposit transaction.
 4. Once validated, your EURC will populate the treasury reserves separately, with the frontend converting its value dynamically to USD (converting EURC at a 1.08 exchange rate) for portfolio mapping.
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How Funds are Released via Governance

SynArc has no admin keys. No founder, member, or developer can withdraw assets manually. Release of funds is automated:

Automated Smart Contract Flow

When a proposal requesting treasury capital successfully passes, the executable target inside the proposal represents a call to the treasury. Once the execution transaction is submitted on-chain, the Governor contract calls the `execute` wrapper, releasing the approved tokens directly to the proposal target address.

AI Agents

SynArc is optimized for the agentic economy, supporting automated autonomous systems that can analyze proposals, execute votes, and manage resources programmatically.

What are AI Agents-

SynArc supports autonomous AI agents that can analyze proposals, cast votes, and create proposals on behalf of their operators.

How to Use AI Analysis

Unlock instant insight on any governance proposal using our built-in AI analyst:

1. Open any proposal page.
2. Click the **Get AI Analysis** button.
3. The agent will analyze the treasury impact, risk level, and alignment of the proposal.
4. It returns a clear recommendation: **FOR / AGAINST / ABSTAIN** with detailed reasoning.

How to Register Your AI Agent

Deploy and authorize your autonomous systems to participate in SynArc governance:

1. Go to the `/agents` page.
2. Connect your agent wallet.
3. Ensure the agent wallet holds sARC or USDC to participate.
4. Once registered, all agent actions are fully on-chain, transparent, and auditable.

SynArc Governance API

Any autonomous system or AI can interact programmatically with SynArc using our public REST API endpoints:

1. Get Proposals

- **Method:** GET
- **Endpoint:** `/api/v1/proposals`
- **Description:** Returns a list of active and historic proposals on the governance registry.

2. Get Treasury Portfolio

- **Method:** GET
- **Endpoint:** `/api/v1/treasury`
- **Description:** Returns real-time USDC/EURC reserves and ledger transactions.

3. Cast programmatic Vote

- **Method:** POST
- **Endpoint:** `/api/v1/vote`
- **Description:** Authenticates and records an autonomous system's vote signature.

4. Create proposal

- **Method:** POST
- **Endpoint:** /api/v1/propose
- **Description:** Submits a new proposal from an authorized agent wallet.

DAO Registry

SynArc hosts a unified, multi-DAO coordination layer. Approved communities can integrate our smart contracts to manage custom memberships and treasury pools.

What is the DAO Registry-

SynArc hosts governance infrastructure for approved DAOs on Arc. Each registered DAO manages its own proposals, treasury allocation, and active member directory.

How to Join the Registry

Get your community listed on the SynArc DAO Registry:

1. Click the **Apply for Your DAO** button on the DAOs page.
 2. Fill in your community and contract details.
 3. Your application is automatically sent to the core team at devsynarc@gmail.com.
 4. Review and verification takes approximately 48 hours.
 5. For support or direct contact, reach out to [@Kellycryptos](#) on Telegram.
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How to Deploy Your DAO Contracts

Set up custom governance contracts for your community:

1. Clone the official repository: github.com/kellycryptos/SynArc
2. Update the contract parameters to match your DAO's voting power, threshold, and voting periods.
3. Deploy your custom contracts to Arc Testnet using Hardhat.
4. Send your contract addresses to our team for verification and listing.

Bridge

Cross-chain connectivity is core to SynArc's multi-chain stablecoin alignment. This section guides you through bridging operations.

Bridging USDC to Arc Testnet

If you have USDC on another chain, bridge it directly to Arc Testnet:

1. Go to the **Treasury** page.
2. Click the **Bridge USDC to Arc** button.
3. Select the source chain (e.g., Ethereum Sepolia, Base Sepolia, etc.).
4. Enter the amount and confirm the transaction.
5. USDC arrives on Arc in approximately ~20 seconds.

This secure cross-chain routing is powered by the **Circle Bridge Kit** and **CCTP (Cross-Chain Transfer Protocol)**.

Smart Contracts

All core SynArc mechanics operate programmatically through secure on-chain EVM smart contracts. This section details deployed addresses and configurations.

Deployed Contract Addresses

SynArc contracts are deployed on the Arc Testnet and can be inspected on the block explorer:

1. SynArc Governor

- **Address:** 0x17D9d585CBB1AF6aa4a3C787116f7ba59651B702
- **Description:** Implements core voting parameters, proposal execution triggers, and quorum rules.
- **Explorer:** [View on ArcScan](#)

2. SynArc Treasury

- **Address:** 0x8Ab21363cB0319548B051f129e477393908be7c1
- **Description:** Vault contract managing USDC/EURC stablecoin deposits and governance-approved disbursements.
- **Explorer:** [View on ArcScan](#)

3. SynArcToken (sARC)

- **Address:** 0x637cA7788aBC956832F389A7BB895D5249FE757B
- **Description:** Core ERC20 voting asset with checkpoint history tracking to authorize DAO voting power weight.
- **Explorer:** [View on ArcScan](#)

4. EURC Token (Circle)

- **Address:** 0x89B50855Aa3bE2F677cD6303Cec089B5F319D72a
 - **Description:** Circle's Euro-backed stablecoin used for multi-currency reserve diversity.
 - **Explorer:** [View on ArcScan](#)
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Network Configuration

Ensure your developer suite or wallet RPC parameters are configured correctly:

- **Network Name:** Arc Testnet
- **Chain ID:** 5042002
- **Currency Symbol:** USDC
- **RPC URL:** <https://rpc.testnet.arc.network>
- **Block Explorer:** <https://testnet.arcscan.app>

Mainnet Roadmap

This section outlines SynArc's multi-phase deployment roadmap towards institutional stablecoin administration and modular agent-governed networks.

Roadmap Milestones

Phase 1: Circle Programmable Wallets

- **Status:** *Planned*
- **Description:** Abstract gas fees completely using Circle Programmable Wallets, enabling user sign-in via social logins and email with automated background gas provisioning.

Phase 2: Timelock & Multi-sig Treasuries

- **Status:** *Planned*
- **Description:** Restructure execution flow to pass through a timelocked, multi-signature safety buffer for disbursements exceeding a set USDC threshold.

Phase 3: Trustless On-Chain Delegation

- **Status:** *Planned*
- **Description:** Enable members to delegate voting weights directly to specialized governance experts programmatically without moving tokens out of their wallets.

Phase 4: Cross-Chain Governance Routing

- **Status:** *Planned*
- **Description:** Implement voting parameters that bridge cross-chain seamlessly, allowing users to vote on other chains and have the outcome execute on Arc.

Phase 5: One-Click DAO Deployer Factory

- **Status:** *Planned*
- **Description:** Launch our Factory contract enabling any community to deploy a pre-configured sARC token, Governor contract, and Treasury vault in one transaction.

Phase 6: AI Agent SDK & Registry

- **Status:** *Planned*
- **Description:** Deploy a developer-friendly npm package providing pre-written models to easily register, connect, and deploy autonomous voting systems in the SynArc ecosystem.

FAQ

This section answers frequently asked questions about the SynArc ecosystem, token metrics, stablecoin integration, and security.

Frequently Asked Questions

1. What is Arc Testnet-

Arc is a high-performance EVM-equivalent blockchain tailored for the decentralized stablecoin economy and AI autonomous agent coordination. Transaction fees are denominated natively in USDC.

2. What is USDC-

USDC is a fully reserve-backed digital dollar stablecoin minted by Circle. SynArc coordinates all treasury allocations and vote parameters using USDC to prevent asset volatility risks.

3. Is SynArc audited-

The core smart contracts inherit from battle-tested OpenZeppelin Governor and ERC20 sets. The multi-asset treasury vault addition is currently undergoing internal audit preparations. Do not deploy high-value mainnet funds before final security reports are released.

4. How do I report a bug-

If you detect any issues, file a bug report directly inside our GitHub repository issue tracker, or drop a message to the engineering team in the Discord channel.

5. Where can I get help-

Visit our Discord server for technical support, or browse our internal documentation sections to learn more about the platform's core features.