

Treasure ARC Implementation Project Doc

Documents & Links

- [TreasureDAO & Hats: Implementation Proposal](#)
- Temperature Check: <https://commonwealth.im/treasure-dao/discussion/14207-tip32-alloca...>
- Snapshot Vote (Passed): <https://snapshot.org/#/treasuregaming.eth/proposal/0x22fd637c...>
- Testnet Hats Tree: <https://app.hatsprotocol.xyz/trees/5/306>
- Arbitrum One Hats Tree: <https://app.hatsprotocol.xyz/trees/42161/6>
- Zodiac Roles Modifier: <https://roles.gnosisguild.org/arb1:0xd8c71be42ae496286b8b75929f9cec967ade7455/roles/arc>
- SnapshotSigner: <https://arbiscan.io/address/0xb0382209806345d27dfdab5bbc17b2ab553165ac>

Enabling the Zodiac Roles Modifier

The [Zodiac Roles Modifier](#) has been deployed, [configured](#), and ownership transferred to the [Treasure DAO Multisig](#). The last step is to enable it as a module on the Treasure DAO Multisig. Here's how to do that:

1. From the Treasure DAO Safe, go to Apps > Zodiac > Custom Module
2. Enter the module address in the Module Address field
 - a. `0xd8c71be42ae496286b8b75929f9cec967ade7455`
3. Click Add Module and sign the message
4. This will queue up the transaction in the multisig for other signers to review and confirm
5. Once confirmed, execute 🚀

Minting ARC Liaison Hats

ARC Liaison addresses

- 0x58244ea236d2ff57c023a4028e228f77dc328894
- 0x1ab7aa47008c8d2a706978a5b692d89cbf5fed6a
- 0xbae65c4ba62799f68817cbb2bb353da4572c23ae
- 0xed47e1f7fd024e35f5db9d1f53c1abbc855ff06e

- **Notes:**
 - Has been delegated a large number of \$ARB votes
 - Seeks to “re-delegate” those votes for voting by the ARC

B. Arbitrum Representative Council (ARC)

- **Account:** Safe multisig:
<https://app.safe.global/home?safe=arb1:0x83e3ca8ddebbd81c3bc3aa9e3afcd2bfb7c360>
- **Zodiac module:** Hats Signer Gate
- **Hat:** Will wear the Arbitrum Representative Council hat (Hat ID 6.1.1)
- **Notes:**
 - Composed of up to 8 Treasure DAO community members
 - Will be delegated the authority to vote in Arbitrum DAO with Treasure DAO’s \$ARB votes

C. ARC Members

- **Account:** Individual EOAs for each member
- **Hat:** Will wear the ARC Member hat (Hat [ID 6.1.2](#))
- **Notes:**
 - Will have signing authority on the ARC Safe multisig, conferred by Hats Signer Gate
 - **[elected? eligibility?]**

D. Arbitrum DAO

- DAO on Tally: <https://www.tally.xyz/gov/arbitrum>
- Onchain voting (Treasury): Governor DAO contract on Arbitrum @ <https://arbiscan.io/address/0x789fC99093B09aD01C34DC7251D0C89ce743e5a4>
- Onchain voting (Core): Governor DAO contract on Arbitrum @ <https://arbiscan.io/address/0xf07DeD9dC292157749B6Fd268E37DF6EA38395B9>
- Offchain signaling: [Snapshot space](#)

E. Roles Mod

- Connected to the Treasure DAO multisig
- Grants permission to the ARC multisig to:
 - vote onchain in the [Arbitrum Core Governor contract](#)
 - vote onchain in the [Arbitrum Treasury Governor contract](#)
 - vote offchain in the [Arbitrum Snapshot space](#)
- Configuration: <https://roles.gnosisguild.org/arb1:0xd8c71be42ae496286b8b75929f9ce967ade7455/roles/arc>
 - owner: [Treasure DAO multisig](#)
 - avatar: [Treasure DAO multisig](#)

- target: [Treasure DAO multisig](#)
- Role 0:
 - Target: [Arbitrum Core Governor](#)
 - Allowed Function Signatures:
 - `castVote()`
 - `castVoteWithReason()`
 - `castVoteWithReasonAndParams()`
 - Target: [Arbitrum Treasury Governor](#)
 - Allowed Function Signatures:
 - `castVote()`
 - `castVoteWithReason()`
 - `castVoteWithReasonAndParams()`
 - Target:
 - Allowed Function Signatures: [Treasure DAO multisig](#)
 - Uses the [SnapshotSigner library](#) to constrain these functions to the necessary parameters (see [zodiac roles page](#) for details)
 - `signSnapshotVote()`
 - `signSnapshotVoteArray()`
 - `signSnapshotStringVote()`

F. Hats Signer Gate

- Connected to the ARC multisig
- Parameters:
 - `maxSigners`: 9
 - `minThreshold`: 3
 - `targetThreshold`: 3
 - `signerHat`: ARC Member (6.1.2)
 - `ownerHat`: Treasure DAO top hat (6)

2. Hats

Hat 6 (Top Hat): Treasure DAO

- Parameters:
 - details:
 - `name`: Treasure DAO
 - `description`: Treasure is the decentralized gaming ecosystem bringing games and players together through MAGIC



- image:
- Wearer(s):
 - A. Treasure DAO

Hat 6.1: Automated Admin

- Parameters:
 - maxSupply: 5
 - eligibility: A. Treasure DAO
 - toggle: A. Treasure DAO
 - mutable
 - details:
 - name: Automated Admin
 - description: Placeholder for future contracts that automate minting and modification of child hats



- image:
- Wearer(s):
 - None (at first)

Hat 6.1.1: Arbitrum Representative Council

- Parameters:
 - maxSupply: 1
 - eligibility: A. Treasure DAO
 - toggle: A. Treasure DAO

- mutable
- details:
 - name: Arbitrum Representative Council
 - description: The Arbitrum Representative Council (ARC) represents Treasure DAO in the Arbitrum DAO
 - responsibilities:
 - Vote on behalf of Treasure DAO in the Arbitrum DAO
 - authorities:
 - Vote on offchain signaling proposals with Treasure DAO's \$ARB voting power
 - Vote on Arbitrum Core proposals with Treasure DAO's \$ARB voting power
 - Vote on Arbitrum Treasury proposals with Treasure DAO's \$ARB voting power



- image:
- Wearer(s):
 - B. Arbitrum Representative Council (ARC)

Hat 6.1.2: ARC Liaison

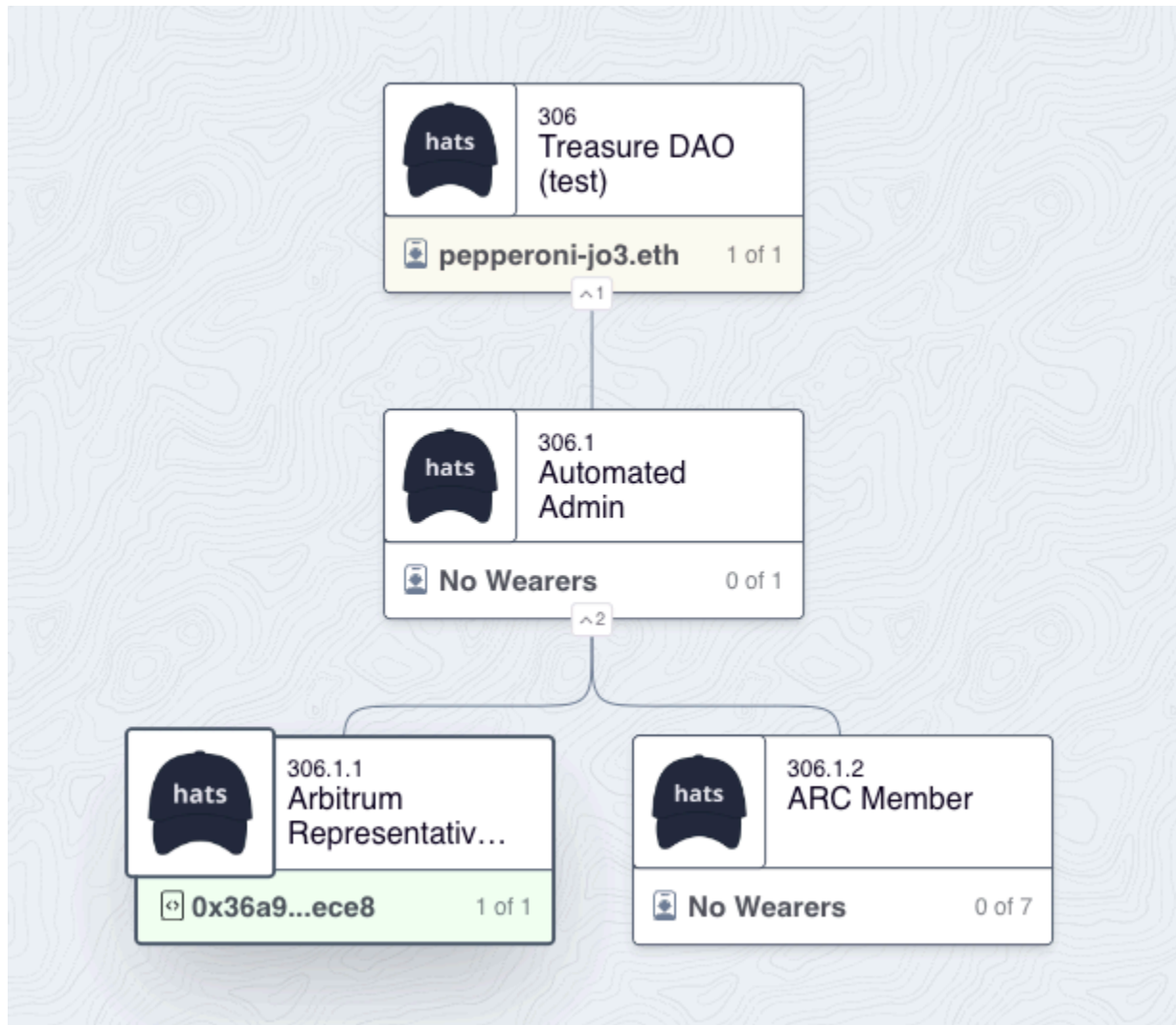
- Parameters:
 - maxSupply: 8
 - eligibility: A. Treasure DAO
 - toggle: A. Treasure DAO
 - mutable
 - details:
 - name: ARC Member
 - description: ARC members are selected from active community members from the Treasure and Arbitrum ecosystem. They support the decentralized decision-making process within TreasureDAO and engaging in Arbitrum governance initiatives

- responsibilities:
 - To make Arbitrum the home of web3 gaming and Treasure DAO a leading voice within the Arbitrum gaming ecosystem.
 - To empower web3 gaming on Arbitrum and ensure efficient and fiscally responsible execution of gaming initiatives.
 - To vote on Arbitrum Snapshot and Tally Governance Proposals
 - To represent the Treasure Community within the Arbitrum Ecosystem
- authorities:
 - Signing authority on the ARC multisig



- image:
- Wearer(s):
 - C. ARC Members

Example Hats Tree ([link](#))



Open Questions / Missing Inputs

- Image for all hats** — *Treasure*
 - An image representing each hat
 - If an image is not explicitly set for a given hat, it will default to the image of its parent.
 - Should be square; recommended size ~500x500 pixels (larger images may load slowly)
 - Can be changed after initial deployment
- Description for two hats** — *Treasure*
 - 1-2 sentences describing the role, typically focusing on its purpose. See hat X.1.1 for a simple example, or the [Hats protoDAO tree](#) for a range of examples.
 - Can be changed after initial deployment

- c. Hats that need descriptions
 - i. X: Treasure DAO tophat
 - ii. X.1.2: ARC Member
- 3. **Responsibilities for ARC Member hat** — *Treasure*
 - a. Bullet points (a phrase or sentence each) outlining the activities and/or objectives the role is responsible for upholding, completing, etc. See hat X.1.1 or the [Hats protoDAO tree](#) for examples.
 - b. Can be changed after initial deployment
- 4. **Roles Mod Configuration** — *Gnosis Guild (w/ input from Snapshot team)*
 - a. in progress
 - b. Governor function permissioning
 - c. Snapshot signature permissioning