Feasibility Study - Data Availability with Validation on Cardano

Sky Protocol Team

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Overview

This report addresses milestone 1 of the Sky Protocol: Data Availability for Cardano Layer 2 Solutions proposal.

Maintenance of Unique Identifiable Contract State

For the maintenance of unique identifiable contract state, we will use NFT-based oracles, similar to the example from the Plutus Pioneer Program.

Multisig for Data Availability Committee

Initially, we will use a simple N-of-M multisig based on Ed25519 signatures.

Merkle Proof of Data Availability

We will use the usual Merkle proof approach.