

Supra Oracles

Optimizing Smart Contract Interoperability
with Peak Performance Oracles

IN A NUTSHELL

True to its decentralized ethos, Supra Oracles report price feeds for use by smart contracts on a variety of destination L1 and L2 chains, ushering in a new gold standard for efficient cross-chain communications.

USE CASES

Universal Web3

Cross-chain token swaps, tokenized equities and RWAs, weather conditions, sports scores, election results, futures markets, etc.

Supply Chain Management

Ensure transparency, traceability, and authenticity of products as they move through their logistical lifecycle.

Identity Verification

Verify decentralized identifiers (DIDs) and safely authorize access to dApps or sensitive documents, enhancing both security and privacy.

KEY BENEFITS

Data Accuracy

Supra Oracles provide unparalleled precision when it comes to data from its multi-echelon aggregation algos to the detection and filtering out of outliers.

Scalability

Supra Oracles handle a perpetually expanding ecosystem of nodes without degradation of its safety guarantees, setting a new gold standard for performance.

Tamper-Resistance

Supra's Oracle network periodically re-assigns nodes to different Tribes and Clans, and shuffles the commodities being reported on by clans, making them resistant to manipulation, front-running, and internal collusion.

Flexibility

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Fallback Mechanisms

Ensures high liveness quotient even in turbulent market conditions, making the network more robust and keeping it online.

PROBLEM IT SOLVES

Unifying Fragmented Liquidity

Swap tokens and automate your smart contracts no matter which chain you're using with cross-chain data powered by Supra's decentralized Oracle price feeds.

Minimize Slippage From Latency

Supra's Push oracle refreshes its price feeds roughly every single second, and remains available for 600-900 millisecond Pull requests. Swap assets at the price you intended.

Reduce Excess Gas Costs

Offering both 'Push' or 'Pull' subscription models, each project can request price feeds from Supra Oracles according to their budgets and specific needs.

Maintain a Decentralized Ethos

The distributed architecture of Supra Oracles eliminates single-point-of-failure risks, employs anti-collusion guardrails, and periodically randomizes clans and nodes.

OUR VISION

Enhance Utility via Interoperability

DORA expands the use cases of blockchains beyond value transfers, enabling a variety of creative cross-chain applications and business models, scaling with the industry's explosive demand for the interoperability of digital assets.

HOW IT WORKS

Across each epoch, Supra's dVRF randomly samples a committee of validators from the Supra blockchain tribe to become part of the Supra Oracle clans running our cross-chain communications protocol.

Next, Oracle clans fetch prices from a multitude of high-quality sources, detect and filter anomalous outlier inputs, and aggregate them at the Clan and Tribe layers to provide an S-Value.

These values are updated approximately every single second, and represent the officially-validated spot prices of assets.

Subsequently, the S-values are published deterministically to destination chains fashion for use by dApps running smart contracts in that ecosystem.

WHO IS IT FOR?

AMMs & DEXs

Futures & Forex Markets

Money Markets & Lending

NFT Marketplaces

Collateralization

Decentralized ID Authentication

Futures & Forex Markets

Token Bridges

ADDITIONAL NOTES & RESOURCES

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