



TRUSTRESERVE

TrustReserve's

Oracle Service

The Power of Proof, The Guidance of Experts

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Oracle Service

TrustReserve's Oracle Services provide a secure and reliable means for clients to incorporate their data into blockchain networks, enabling smart contracts to access real-world information. As a key enabler of Web 3.0, Oracle Services bridge the gap between off-chain data and on-chain applications, fostering trust and transparency.

Oracle Services offered by TrustReserve enhance supply chain transparency and accountability by facilitating real-time access to blockchain data for external systems. With the ability to provide real-time updates and insights into blockchain network data, the Oracle solution ensures up-to-date information on all relevant aspects.

As the intermediary between real-world data and blockchain ecosystems, Oracle Services act as a vital middleware in fostering trust and transparency for the next generation of the internet. However, it is crucial to maintain the security and reliability of Oracle services, as they can represent a potential point of vulnerability within the overall system. TrustReserve's Oracle solution addresses these concerns, offering a professional and secure means of connecting smart contracts and decentralised applications (dApps) to external data sources, ultimately expanding the functionality and potential of blockchain technology.



ABOUT

TrustReserve offers professional blockchain oracle services, designed to bridge the gap between blockchain technology and external data sources. As a reliable and secure solution, our Oracle services serve as an intermediary, supplying data to smart contracts and decentralised applications (dApps) from a variety of external sources. We employ various techniques, including APIs, web scraping, and other methods, to acquire and validate data from these external sources.

In the world of blockchain, oracle services are crucial for providing secure access to external data, as they facilitate seamless interaction between blockchain networks and real-world information.

Given that blockchains are inherently decentralised and trustless, nodes on the network must agree on the ledger's state without relying on a centralised entity.

However, certain use cases necessitate information not available on the blockchain itself, such as stock prices, weather data, or real-world events.

Our Oracle services address this need by acting as a trustworthy intermediary between the blockchain and external data sources.

By providing smart contracts with the necessary off-chain data, TrustReserve's Oracle services enable the blockchain to effectively automate and support a variety of applications.



EXPLAINED

TrustReserve Oracle Services deliver vital external data to blockchain networks in a reliable and secure manner. As blockchains are decentralised and trustless systems, all nodes within the network must concur on the ledger's state without the need for a centralized entity. In some instances, smart contracts or decentralised applications (dApps) necessitate data that is not available on the blockchain, such as stock prices, weather data, or real-world events.

Our Oracle Services address this need by acting as intermediaries between the blockchain and external data sources. We ensure secure and dependable access to crucial external data, allowing the blockchain to automate and support various applications, including prediction markets, supply chain management, and insurance.

To provide the necessary data to the blockchain network, TrustReserve Oracle Services employ a variety of methods, including APIs, web scraping, and even human input.

By bridging the gap between the blockchain and external data sources, our Oracle Services play a critical role in enhancing the functionality and efficiency of smart contracts and dApps.



VALUE

TrustReserve Oracle Services addresses the challenges of ensuring data accuracy and reliability in a world where malicious actors may attempt to manipulate data provided by oracles to exploit vulnerabilities in smart contracts or dApps. To overcome these challenges, our oracle service incorporates advanced cryptographic techniques and employs multiple oracles to verify the authenticity of the data and achieve consensus.

We prioritize security by establishing a protected connection between our oracle service and the smart contracts or dApps utilizing the data. This is achieved through encryption and other security measures designed to safeguard against hacking or data breaches. Our commitment to security and reliability allows you to confidently use TrustReserve Oracle Services to enable your own or other smart contracts to access on-chain data.

By choosing TrustReserve Oracle Services, you gain access to the leading public oracle network, opening a feed to the world while leveraging our Oracle Services Control Panel. This provides visibility to all aggregated off-chain data and granular historical records, further enhancing the value of our service.

In summary, TrustReserve Oracle Services delivers unparalleled value by ensuring the accuracy, reliability, and security of the data provided to smart contracts and dApps, empowering you to harness the potential of blockchain technology with confidence.

Oracle Services enables real-world asset issuers to provide trust and transparency to their customers by bringing reserve data related to the liabilities issued, and assets used to reserve those liabilities, on-chain in a Chainlink Proof of Reserve feed.



HOW IT WORKS

TrustReserve Oracle Services function as a vital link connecting the blockchain with the external world, ensuring seamless communication between on-chain and off-chain information. Blockchains cannot access off-chain data independently, making oracles indispensable third-party services that significantly expand smart contract use cases. By enabling smart contracts to access and utilise data from the outside world, oracles make this information readily available on the blockchain.

It's essential to recognize that oracles are not the data itself; they serve as a tool that authenticates external data sources and conveys the information to the blockchain. This process guarantees the accuracy and reliability of external data, enabling blockchain technology to support various applications, such as decentralised finance (DeFi), supply chain management, and prediction markets.

As intermediaries between real-world data and blockchain ecosystems, oracles facilitate the creation of robust smart contracts capable of addressing a wide array of scenarios, including fractional ownership of real estate or other real-world assets. They also convert off-chain data into a format accessible to smart contracts, broadening the scope of data that can be utilised by blockchain technology.

The security of a smart contract depends on the accuracy and reliability of data obtained from an oracle. Incorrect or manipulated data can cause smart contract failure, potentially leading to catastrophic losses. Additionally, if the data trail is not auditable and the methodology and sources are

not transparent, the security of the smart contract is compromised. Blockchain networks and smart contracts require secure, reliable, and verifiable means to access real-world data.

A trusted Oracle solution, like TrustReserve Oracle Services, empowers businesses to bring critical off-chain legacy enterprise data, asset reserves data, and other essential financial data on-chain for use in their decentralised applications or other open protocols. This serves as a middleware of trust and transparency for the next generation of the internet.

TrustReserve Oracle Services deliver off-chain data from known and trusted sources to the blockchain network, bolstering trust in the decentralised ecosystem and enabling seamless integration of external data for smart contracts running on blockchain networks.



INTEGRATIONS

TrustReserve Oracle Services addresses the challenges of ensuring data accuracy and reliability in a world where malicious actors may attempt to manipulate data provided by oracles to exploit vulnerabilities in smart contracts or dApps. To overcome these challenges, our oracle service incorporates advanced cryptographic techniques and employs multiple oracles to verify the authenticity of the data and achieve consensus.

TrustReserve Oracle Services boasts a comprehensive integration library that currently supports over 100 integrations across diverse networks and custodians. Our integration capabilities span Layer 1 blockchains, Layer 2 networks, third-party custodians, exchange accounts, traditional bank accounts, securities brokerages, and self-custody solutions. Additionally, our library features e-statement data parsing to accommodate the unique needs of your operations.

With TrustReserve Oracle Services, you can enjoy seamless integrations and effortless connectivity, ensuring the smooth functioning of your blockchain applications and providing the flexibility to meet your diverse operational requirements.

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