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Data Serivce

APRO Oracle: Secure Off-Chain & On-Chain

APRO is building a secure platform by combining **off-chain processing** with **on-chain verification**, extending both data access and computational capabilities. This forms the foundation of **APRO Data Service**, improving data accuracy and efficiency while offering the flexibility to create custom solutions tailored to the specific needs of DApp businesses.

APRO Data Service supports two data models—**Data Push** and **Data Pull**—that deliver real-time Price Feeds and other essential data services, ensuring comprehensive support for all DApp business scenarios. Currently, we support 161 Price Feed services across 15 major blockchain networks:

- **Data Push**: APRO Data Push uses a "Push-Based" data model to deliver Price Feed services. Decentralized independent node operators continuously gather and push data updates to the blockchain when certain price thresholds or time intervals are met. This method improves blockchain scalability, supports various data products, and provides timely updates.
- **Data Pull:** APRO Data Pull uses a "Pull-Based" data model to deliver real-time Price Feed services to dApps. It is designed for on-demand access, high-frequency updates, low latency, and cost-effective integration. This flexible and efficient model is ideal for DeFi protocols, decentralized exchanges, and other applications needing rapid, dynamic data without ongoing on-chain costs.

We continually refine and optimize our platform to deliver enhanced services and experiences, driving forward the development and application of blockchain technology.

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Key Benefits of APRO Data Service

- **Advantages of APRO Combination of Off-Chain Computing and On-Chain Verification**
  APRO platform integrates off-chain computing with on-chain verification to extend computing capabilities and data access while ensuring system security and reliability.
- **Customization of Secure and Trustworthy Computing Logic**
  DApp businesses can customize computing logic according to their needs and run it on the APRO platform, achieving personalized business logic processing without concerns about security issues.
- **Enhancement of Oracle Network Security and Stability**
  We focus on enhancing the security and stability of the Oracle network through various measures to ensure continuous service capability.
- **Hybrid Node Approach**
  Introducing a Hybrid node approach that combines on-chain and off-chain computing resources to improve computing efficiency and performance.
- **Multi-Network Network Communication Scheme**
  Establishing a multi-centralized network communication scheme ensures network stability and reliability while reducing the risk of single-point failures.
- **TVWAP Price Discovery Mechanism**
  Applying the TVWAP price discovery mechanism ensures fairness and accuracy of data prices, preventing data tampering and malicious manipulation.

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