# Polymer Proof
## Blockchain at the Speed of Business

COVAX DATA

Covax Data's Polymer Proof is a multi-use data integrity solution built on our proprietary form of blockchain called Polymer Chain. Polymer Chain is a lightweight, highly-performant, energy efficient form of blockchain technology designed for high throughput environments.

The exponential growth of data has empowered businesses to operate with greater efficiency and improved visibility. However, confidence in that data is crucial for making effective business decisions and fulfilling legal and regulatory burdens. Polymer Proof not only imparts trust into the data universe, but also acts as an independent notary when your data is needed for litigation defense or regulatory compliance audits. With Polymer Proof, assurance is insurance.

## Key Features & Benefits

- Simple, fast, and secure API allows flexible building on Covax Data's Polymer Chain
- High-performing, low latency blockchain allows for tens of thousands of transactions per second
- Real-time immutable chain commitment ensures data integrity
- Universal timestamp provides verifiable proof of state
- Hash lookup and compare provides targeted data validation
- Multi-tenant and private blockchains available
- Low resource demand reduces carbon footprint compared to traditional blockchains

## Sample Use Cases

- **Chain of Custody/Evidence**
  Establish and maintain a digital provenance for critical data by committing hashed data and events to the Polymer Chain. Polymer Proof's performance allows for blockchain-based chain of custody creation even in high-throughput, low-latency applications such as IoT.

- **Data Integrity Certification**
  Universal time stamping of committed hashes into the blockchain provides an immutable proof of state. Data integrity checks offer many more specific uses, such as log file comparison as an early warning system for breaches, and the integrity of evidence in litigation defense and regulatory compliance audits.

- **Software Supply Chain Security**
  Software publishers face many threats but none greater than becoming weaponized by bad actors against their own customers. Polymer Proof provides periodic or continual validation of published versions compared to what the customer is attempting to use, preventing malicious or pirated code from being used.

- **Data Security**
  Leveraging Polymer Proof's chain of custody feature allows for all events on data to be immutably logged. This capability enables an assured environment for anomaly detection to operate, tamper-proof logs for monitoring and investigation, as well as a strong deterrent to would-be insider threats.

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