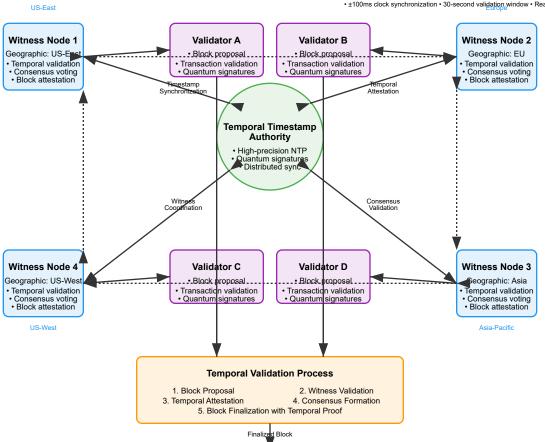
ographic Distribution:

## **FIGURE 2: Temporal Witness Network Architecture**

Temporal Requirements:

• ±100ms clock synchronization • 30-second validation window • Real-time attestation



## Quantum-Safe Blockchain Network

Block Structure:

Quantum-safe signaturesTemporal witness proofs

- Consensus Mechanism:
- Byzantine fault tolerance
  Temporal validation required

- Security Features:
- Post-quantum cryptography
  Geographic distribution
- Performance:
- 3-6 second block time 10K+ TPS capacity