

Blockchain-based Medical Record System Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Blockchain-based Medical Record System Market was valued at USD 783.6 million in 2024 and is estimated to grow at a CAGR of 32.9% to reach USD 14.6 billion by 2034.

Market growth is fueled by the rising focus on patient-centric care models, the need for seamless healthcare data interoperability, and the increasing costs and risks associated with cybersecurity breaches. The adoption of electronic health records (EHR) and integrated interoperability solutions is accelerating demand for secure, transparent data management. Blockchain technology is also gaining traction in clinical trials for ensuring data integrity, transparency, and auditability. Healthcare providers are prioritizing solutions that empower patients with control over their personal data while enabling secure, permission-based sharing. The decentralized architecture and cryptographic protection of blockchain reduce vulnerabilities, mitigate cyber risks, and provide healthcare organizations with a high level of data security, compliance assurance, and operational efficiency.

The platform solutions segment held a share of 65% in 2024. These platforms provide the underlying infrastructure for secure storage, encryption, and decentralized access of medical data, enabling interoperability between hospitals, insurers, and patients while adhering to privacy regulations like HIPAA and GDPR.

The private blockchain segment generated USD 392.2 million in 2024. Private blockchains restrict access to authorized users, offering high transaction speed, greater security, and centralized control, which makes them ideal for healthcare organizations managing sensitive patient information. Hospitals and insurers prefer private networks

for compliance with regulatory frameworks and to ensure data confidentiality.

North America Blockchain-based Medical Record System Market held 60.1% share in 2024 and is expected to maintain significant growth during the forecast period. The region's strong healthcare infrastructure, strict regulations, and early adoption of digital health and telehealth solutions are driving demand for blockchain-enabled interoperable medical record systems. Investments from hospitals, insurers, and research institutions to protect patient data, reduce fraud, and enable seamless data sharing have further strengthened market growth.

Key players in the Global Blockchain-based Medical Record System Market include Microsoft, Oracle Corporation, IBM, Avaneer HEALTH, burstIQ, Chronicled, embleema, Factom, Guardtime, Patientory Inc., SOLULAB, and SOLVE CARE. Companies are focusing on innovation in blockchain architecture and data encryption to enhance security, interoperability, and patient control over medical records. Strategic partnerships with hospitals, insurers, and health-tech providers allow companies to integrate blockchain solutions seamlessly into existing healthcare ecosystems. Investment in R&D for platform scalability, cloud integration, and AI-enabled analytics strengthens product offerings and supports adoption. Market players are also expanding regionally, targeting high-demand areas with strict data privacy regulations. Mergers and acquisitions help consolidate technology, broaden portfolios, and improve competitive positioning. Companies emphasize regulatory compliance, HIPAA and GDPR adherence, and certification to assure clients of system reliability.

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