

Zero-Knowledge Health Records Market Forecasts to 2032 – Global Analysis By Component (Software Solutions and Services), Deployment Model (Cloud-Based and On-Premise), End User and By Geography

<https://marketpublishers.com/r/ZEACFEB11388EN.html>

Date: September 2025

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: ZEACFEB11388EN

Abstracts

According to Statistics MRC, the Global Zero-Knowledge Health Records Market is accounted for \$41.8 billion in 2025 and is expected to reach \$235.6 billion by 2032 growing at a CAGR of 28% during the forecast period. Zero-Knowledge Health Records (ZKHR) are a cutting-edge approach to storing and managing personal medical data, designed to maximize privacy and security. In this system, health information is encrypted in such a way that even service providers cannot access the underlying data, ensuring complete confidentiality. Patients retain full control over who can view or share their records, granting permissions through secure cryptographic methods. This eliminates risks associated with centralized data breaches while maintaining interoperability for authorized healthcare providers. ZKHR empowers individuals to manage their health information securely, enabling privacy-preserving data sharing for clinical care, research, and personalized treatments without exposing sensitive details.

Market Dynamics:

Driver:

Enhanced data privacy and security

Encrypted data exchange mechanisms allow information sharing without exposing sensitive patient details, aligning with global privacy mandates. Integration of blockchain and post-quantum cryptography is strengthening authentication protocols and confidentiality safeguards. Compliance with regulations such as GDPR, HIPAA, and

emerging regional frameworks is becoming a top priority for healthcare providers. Rising concerns over data misuse and unauthorized access are prompting institutions to invest in privacy-preserving technologies. As a result, ZKHR is emerging as a foundational layer in secure, patient-centric digital health infrastructure.

Restraint:

High implementation costs

Infrastructure upgrades, software integration, and personnel training add to long-term operational burden. Smaller facilities may find it difficult to justify investment without high patient throughput. Compatibility challenges with legacy systems require additional customization. Reimbursement limitations for privacy technologies reduce financial viability. These constraints are slowing penetration across mid-tier providers.

Opportunity:

Rising incidences of data breaches

Zero-knowledge frameworks offer secure access control without compromising patient confidentiality. Regulatory mandates and public concern are accelerating investment in breach-resistant platforms. Integration with remote care and telehealth services is expanding application scope. Decentralized verification and tamper-proof architecture are enhancing system resilience. These trends are fueling momentum for ZKHR adoption.

Threat:

Scalability issues

High computational demands and latency in proof generation affect performance. Integration across diverse clinical systems remain technically complex. Limited interoperability with existing EHRs restricts seamless deployment. Bottlenecks in processing and data exchange hinder efficiency. These issues pose risks to widespread implementation.

Covid-19 Impact:

The Covid-19 pandemic significantly influenced the Zero-Knowledge Health Records

(ZKHR) market by accelerating the demand for secure and privacy-focused digital health solutions. Increased telemedicine adoption and remote patient monitoring highlighted the need for confidential data management. Healthcare providers sought technologies that ensure patient information security while enabling seamless access for authorized personnel. Additionally, rising awareness of data privacy regulations and pandemic-driven digital transformation fostered greater investment in ZKHR solutions, strengthening market growth and encouraging innovation in privacy-preserving healthcare technologies.

The software solutions segment is expected to be the largest during the forecast period

The software solutions segment is expected to account for the largest market share during the forecast period due to their role in enabling zero-knowledge data exchange. These platforms offer encrypted storage, secure authentication, and decentralized access management. Integration with health IT systems improves scalability and workflow compatibility. Vendors are developing modular, cloud-native architectures to meet diverse provider needs. Regular updates and compliance features enhance usability. This segment will remain central to ZKHR deployment.

The patients segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the patients segment is predicted to witness the highest growth rate owing to rising demand for secure and personalized health data control. Mobile apps and portals are integrating zero-knowledge protocols to support selective sharing. Awareness of data ownership and consent rights is increasing among consumers. Adoption is expanding across chronic care, wellness, and preventive health domains. Engagement is being driven by transparency and privacy assurance. This segment is set for rapid expansion in consumer-driven healthcare models.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share by high adoption of advanced digital healthcare solutions and stringent data privacy regulations, particularly in the U.S. and Canada. Hospitals, insurance providers, and government healthcare bodies are increasingly leveraging zero-knowledge health records to secure sensitive patient data. The region emphasizes compliance with HIPAA and other regulatory standards, supporting large-scale deployment in both cloud-based and on-premise models. Continuous investment in AI-enabled health data management, partnerships between tech giants and healthcare

institutions, and increasing patient awareness further strengthen market growth.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR due to expanding digital healthcare infrastructure in countries like China, Japan, India, and Australia. Governments are promoting initiatives to enhance patient data privacy, while hospitals and clinics adopt zero-knowledge solutions to mitigate cyber threats. Cloud-based deployment is gaining traction, supported by growing smartphone penetration and telemedicine services. Market growth is fuelled by collaborations between local startups and multinational tech firms, increasing investments in healthcare IT, and rising awareness among patients and providers regarding secure, privacy-centric data management.

Key players in the market

Some of the key players in Zero-Knowledge Health Records Market include MedRec, BurstIQ, Patientory, Healthereum, Solve.Care, Medicalchain, Coral Health, Doc.ai, IBM, Microsoft, Google, Guardtime, Hashed Health, MediBloc and Equideum Health.

Key Developments:

In March 2025, BurstIQ partnered with the Digital Health Institute for Transformation (DHIT) to co-develop privacy-first health data ecosystems using its LifeGraph® platform. The collaboration aims to integrate zero-knowledge proof capabilities into decentralized health data exchanges, enhancing patient control and regulatory compliance across multi-stakeholder environments.

In October 2024, MedRec partnered with Beth Israel Deaconess Medical Center (BIDMC) to pilot its blockchain-based electronic health record system. The collaboration focused on decentralized access control and permission management, enabling patients to securely share medical data across providers without centralized storage.

Components Covered:

Software Solutions

Services

Deployment Models Covered:

Cloud-Based

On-Premise

End Users Covered:

Hospitals and Healthcare Providers

Insurance Companies

Patients

Government and Regulatory Bodies

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 End User Analysis
- 3.7 Emerging Markets
- 3.8 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL ZERO-KNOWLEDGE HEALTH RECORDS MARKET, BY COMPONENT

- 5.1 Introduction
- 5.2 Software Solutions
- 5.3 Services
 - 5.3.1 Consulting
 - 5.3.2 Integration
 - 5.3.3 Support

6 GLOBAL ZERO-KNOWLEDGE HEALTH RECORDS MARKET, BY DEPLOYMENT MODEL

- 6.1 Introduction
- 6.2 Cloud-Based
- 6.3 On-Premise

7 GLOBAL ZERO-KNOWLEDGE HEALTH RECORDS MARKET, BY END USER

- 7.1 Introduction
- 7.2 Hospitals and Healthcare Providers
- 7.3 Insurance Companies
- 7.4 Patients
- 7.5 Government and Regulatory Bodies
- 7.6 Other End Users

8 GLOBAL ZERO-KNOWLEDGE HEALTH RECORDS MARKET, BY GEOGRAPHY

- 8.1 Introduction
- 8.2 North America
 - 8.2.1 US
 - 8.2.2 Canada
 - 8.2.3 Mexico
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.2 UK
 - 8.3.3 Italy
 - 8.3.4 France
 - 8.3.5 Spain
 - 8.3.6 Rest of Europe
- 8.4 Asia Pacific

- 8.4.1 Japan
- 8.4.2 China
- 8.4.3 India
- 8.4.4 Australia
- 8.4.5 New Zealand
- 8.4.6 South Korea
- 8.4.7 Rest of Asia Pacific
- 8.5 South America
 - 8.5.1 Argentina
 - 8.5.2 Brazil
 - 8.5.3 Chile
 - 8.5.4 Rest of South America
- 8.6 Middle East & Africa
 - 8.6.1 Saudi Arabia
 - 8.6.2 UAE
 - 8.6.3 Qatar
 - 8.6.4 South Africa
 - 8.6.5 Rest of Middle East & Africa

9 KEY DEVELOPMENTS

- 9.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 9.2 Acquisitions & Mergers
- 9.3 New Product Launch
- 9.4 Expansions
- 9.5 Other Key Strategies

10 COMPANY PROFILING

- 10.1 MedRec
- 10.2 BurstIQ
- 10.3 Patientory
- 10.4 Healthereum
- 10.5 Solve.Care
- 10.6 Medicalchain
- 10.7 Coral Health
- 10.8 Doc.ai
- 10.9 IBM
- 10.10 Microsoft

10.11 Google

10.12 Guardtime

10.13 Hashed Health

10.14 MediBloc

10.15 Equideum Health

List Of Tables

LIST OF TABLES

- Table 1 Global Zero-Knowledge Health Records Market Outlook, By Region (2024-2032) (\$MN)
- Table 2 Global Zero-Knowledge Health Records Market Outlook, By Component (2024-2032) (\$MN)
- Table 3 Global Zero-Knowledge Health Records Market Outlook, By Software Solutions (2024-2032) (\$MN)
- Table 4 Global Zero-Knowledge Health Records Market Outlook, By Services (2024-2032) (\$MN)
- Table 5 Global Zero-Knowledge Health Records Market Outlook, By Consulting (2024-2032) (\$MN)
- Table 6 Global Zero-Knowledge Health Records Market Outlook, By Integration (2024-2032) (\$MN)
- Table 7 Global Zero-Knowledge Health Records Market Outlook, By Support (2024-2032) (\$MN)
- Table 8 Global Zero-Knowledge Health Records Market Outlook, By Deployment Model (2024-2032) (\$MN)
- Table 9 Global Zero-Knowledge Health Records Market Outlook, By Cloud-Based (2024-2032) (\$MN)
- Table 10 Global Zero-Knowledge Health Records Market Outlook, By On-Premise (2024-2032) (\$MN)
- Table 11 Global Zero-Knowledge Health Records Market Outlook, By End User (2024-2032) (\$MN)
- Table 12 Global Zero-Knowledge Health Records Market Outlook, By Hospitals and Healthcare Providers (2024-2032) (\$MN)
- Table 13 Global Zero-Knowledge Health Records Market Outlook, By Insurance Companies (2024-2032) (\$MN)
- Table 14 Global Zero-Knowledge Health Records Market Outlook, By Patients (2024-2032) (\$MN)
- Table 15 Global Zero-Knowledge Health Records Market Outlook, By Government and Regulatory Bodies (2024-2032) (\$MN)
- Table 16 Global Zero-Knowledge Health Records Market Outlook, By Other End Users (2024-2032) (\$MN)
- Table 17 North America Zero-Knowledge Health Records Market Outlook, By Country (2024-2032) (\$MN)
- Table 18 North America Zero-Knowledge Health Records Market Outlook, By

Component (2024-2032) (\$MN)

Table 19 North America Zero-Knowledge Health Records Market Outlook, By Software Solutions (2024-2032) (\$MN)

Table 20 North America Zero-Knowledge Health Records Market Outlook, By Services (2024-2032) (\$MN)

Table 21 North America Zero-Knowledge Health Records Market Outlook, By Consulting (2024-2032) (\$MN)

Table 22 North America Zero-Knowledge Health Records Market Outlook, By Integration (2024-2032) (\$MN)

Table 23 North America Zero-Knowledge Health Records Market Outlook, By Support (2024-2032) (\$MN)

Table 24 North America Zero-Knowledge Health Records Market Outlook, By Deployment Model (2024-2032) (\$MN)

Table 25 North America Zero-Knowledge Health Records Market Outlook, By Cloud-Based (2024-2032) (\$MN)

Table 26 North America Zero-Knowledge Health Records Market Outlook, By On-Premise (2024-2032) (\$MN)

Table 27 North America Zero-Knowledge Health Records Market Outlook, By End User (2024-2032) (\$MN)

Table 28 North America Zero-Knowledge Health Records Market Outlook, By Hospitals and Healthcare Providers (2024-2032) (\$MN)

Table 29 North America Zero-Knowledge Health Records Market Outlook, By Insurance Companies (2024-2032) (\$MN)

Table 30 North America Zero-Knowledge Health Records Market Outlook, By Patients (2024-2032) (\$MN)

Table 31 North America Zero-Knowledge Health Records Market Outlook, By Government and Regulatory Bodies (2024-2032) (\$MN)

Table 32 North America Zero-Knowledge Health Records Market Outlook, By Other End Users (2024-2032) (\$MN)

Table 33 Europe Zero-Knowledge Health Records Market Outlook, By Country (2024-2032) (\$MN)

Table 34 Europe Zero-Knowledge Health Records Market Outlook, By Component (2024-2032) (\$MN)

Table 35 Europe Zero-Knowledge Health Records Market Outlook, By Software Solutions (2024-2032) (\$MN)

Table 36 Europe Zero-Knowledge Health Records Market Outlook, By Services (2024-2032) (\$MN)

Table 37 Europe Zero-Knowledge Health Records Market Outlook, By Consulting (2024-2032) (\$MN)

Table 38 Europe Zero-Knowledge Health Records Market Outlook, By Integration (2024-2032) (\$MN)

Table 39 Europe Zero-Knowledge Health Records Market Outlook, By Support (2024-2032) (\$MN)

Table 40 Europe Zero-Knowledge Health Records Market Outlook, By Deployment Model (2024-2032) (\$MN)

Table 41 Europe Zero-Knowledge Health Records Market Outlook, By Cloud-Based (2024-2032) (\$MN)

Table 42 Europe Zero-Knowledge Health Records Market Outlook, By On-Premise (2024-2032) (\$MN)

Table 43 Europe Zero-Knowledge Health Records Market Outlook, By End User (2024-2032) (\$MN)

Table 44 Europe Zero-Knowledge Health Records Market Outlook, By Hospitals and Healthcare Providers (2024-2032) (\$MN)

Table 45 Europe Zero-Knowledge Health Records Market Outlook, By Insurance Companies (2024-2032) (\$MN)

Table 46 Europe Zero-Knowledge Health Records Market Outlook, By Patients (2024-2032) (\$MN)

Table 47 Europe Zero-Knowledge Health Records Market Outlook, By Government and Regulatory Bodies (2024-2032) (\$MN)

Table 48 Europe Zero-Knowledge Health Records Market Outlook, By Other End Users (2024-2032) (\$MN)

Table 49 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Country (2024-2032) (\$MN)

Table 50 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Component (2024-2032) (\$MN)

Table 51 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Software Solutions (2024-2032) (\$MN)

Table 52 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Services (2024-2032) (\$MN)

Table 53 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Consulting (2024-2032) (\$MN)

Table 54 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Integration (2024-2032) (\$MN)

Table 55 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Support (2024-2032) (\$MN)

Table 56 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Deployment Model (2024-2032) (\$MN)

Table 57 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Cloud-Based

(2024-2032) (\$MN)

Table 58 Asia Pacific Zero-Knowledge Health Records Market Outlook, By On-Premise (2024-2032) (\$MN)

Table 59 Asia Pacific Zero-Knowledge Health Records Market Outlook, By End User (2024-2032) (\$MN)

Table 60 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Hospitals and Healthcare Providers (2024-2032) (\$MN)

Table 61 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Insurance Companies (2024-2032) (\$MN)

Table 62 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Patients (2024-2032) (\$MN)

Table 63 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Government and Regulatory Bodies (2024-2032) (\$MN)

Table 64 Asia Pacific Zero-Knowledge Health Records Market Outlook, By Other End Users (2024-2032) (\$MN)

Table 65 South America Zero-Knowledge Health Records Market Outlook, By Country (2024-2032) (\$MN)

Table 66 South America Zero-Knowledge Health Records Market Outlook, By Component (2024-2032) (\$MN)

Table 67 South America Zero-Knowledge Health Records Market Outlook, By Software Solutions (2024-2032) (\$MN)

Table 68 South America Zero-Knowledge Health Records Market Outlook, By Services (2024-2032) (\$MN)

Table 69 South America Zero-Knowledge Health Records Market Outlook, By Consulting (2024-2032) (\$MN)

Table 70 South America Zero-Knowledge Health Records Market Outlook, By Integration (2024-2032) (\$MN)

Table 71 South America Zero-Knowledge Health Records Market Outlook, By Support (2024-2032) (\$MN)

Table 72 South America Zero-Knowledge Health Records Market Outlook, By Deployment Model (2024-2032) (\$MN)

Table 73 South America Zero-Knowledge Health Records Market Outlook, By Cloud-Based (2024-2032) (\$MN)

Table 74 South America Zero-Knowledge Health Records Market Outlook, By On-Premise (2024-2032) (\$MN)

Table 75 South America Zero-Knowledge Health Records Market Outlook, By End User (2024-2032) (\$MN)

Table 76 South America Zero-Knowledge Health Records Market Outlook, By Hospitals and Healthcare Providers (2024-2032) (\$MN)

Table 77 South America Zero-Knowledge Health Records Market Outlook, By Insurance Companies (2024-2032) (\$MN)

Table 78 South America Zero-Knowledge Health Records Market Outlook, By Patients (2024-2032) (\$MN)

Table 79 South America Zero-Knowledge Health Records Market Outlook, By Government and Regulatory Bodies (2024-2032) (\$MN)

Table 80 South America Zero-Knowledge Health Records Market Outlook, By Other End Users (2024-2032) (\$MN)

Table 81 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Country (2024-2032) (\$MN)

Table 82 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Component (2024-2032) (\$MN)

Table 83 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Software Solutions (2024-2032) (\$MN)

Table 84 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Services (2024-2032) (\$MN)

Table 85 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Consulting (2024-2032) (\$MN)

Table 86 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Integration (2024-2032) (\$MN)

Table 87 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Support (2024-2032) (\$MN)

Table 88 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Deployment Model (2024-2032) (\$MN)

Table 89 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Cloud-Based (2024-2032) (\$MN)

Table 90 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By On-Premise (2024-2032) (\$MN)

Table 91 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By End User (2024-2032) (\$MN)

Table 92 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Hospitals and Healthcare Providers (2024-2032) (\$MN)

Table 93 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Insurance Companies (2024-2032) (\$MN)

Table 94 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Patients (2024-2032) (\$MN)

Table 95 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By Government and Regulatory Bodies (2024-2032) (\$MN)

Table 96 Middle East & Africa Zero-Knowledge Health Records Market Outlook, By

Other End Users (2024-2032) (\$MN)

I would like to order

Product name: Zero-Knowledge Health Records Market Forecasts to 2032 – Global Analysis By Component (Software Solutions and Services), Deployment Model (Cloud-Based and On-Premise), End User and By Geography

Product link: <https://marketpublishers.com/r/ZEACFEB11388EN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/ZEACFEB11388EN.html>