Global Data Encryption Market Research Report — Forecast 2023

Market Scenario

Data encryption refers to the conversion of data from a readable format to an encoded format which can only be read or processed using a decryption key. Data encryption provides data security in a simple and efficient way to ensure the integrity of user information being sent over the network. Two major methods used for data encryption are, symmetric key and asymmetric key method. Symmetric key involves use of same key for both encryption and decryption of data while asymmetric method uses two separate keys at both ends for encryption and decryption of data.

In today’s world, the rates of malicious data thefts and data destruction are alarming. Many companies and government organization have been subject to malicious attacks by dubious attackers which has led to a loss of large sums of money and in some cases bankruptcy. Data has become an ever so important asset to most companies all around the globe. Due to the increasing adoption of cloud technology, the companies have started storing data remotely on cloud. There is a rising need for securing the data stored on cloud as well as transferred to the cloud. Data encryption is an ideal and easy way to resolve data security concerns. Data encryption addresses the data security concerns over wireless networks as well. High-level data encryption algorithms like AES and RSA prevent sensitive data from getting stolen during communications between remote entities.

Increase in the development of data centered technology and increasing adoption of electronics data driven devices in the market are driving the growth of data encryption market. Increasing cyber-attacks and data proliferations around the world has forced organizations to take necessary actions and invest in developing data encryption platforms for maintaining integrity of data. Increasing digitalization has led to an increase in the amount of personal data getting generated daily which need to be secured. The need for protection of personal and sensitive information generated using electronic devices by people has led to the growth of data encryption market. However, lack of awareness about data encryption solutions and complexity of integrating them are the factors expected to restrain the growth of the global data encryption market.

Segmentation

The global data encryption market is segmented based on method, deployment, organization size, end-user, and region.

By method, the global data encryption market is segmented based on symmetric and asymmetric.

By deployment, the global data encryption market is segmented based on on-cloud and on premise.

By organization size, the global data encryption market is segmented based on SMEs and large organizations.

By end user, the global data encryption market is segmented into government, BFSI, healthcare, manufacturing, automotive, IT & telecom, aerospace & defence, and others.

By region, the global data encryption market is segmented into North America, Europe, APAC, and the rest of the world.

Key players
IBM Corporation (US), Microsoft Corporation, (US), Symantec Corporation (US), HP (US), Intel Security (US), Oracle Corporation (US), Netapp Inc. (US), Gemalto (The Netherlands), Vormetric Inc. (US), and FireEye, Inc. (US), are some of the prominent players at the forefront of competition in the Global Data Encryption Market and are profiled in MRFR analysis.

The prominent players keep innovating and investing in research and development to present a cost-effective product portfolio. There have been many key developments in the products that the key players offer in terms of data encryption.

Regional Analysis

The regional analysis of global data encryption market is done for North America, Europe, Asia-Pacific, and the rest of the world.

North America is expected to dominate the global data encryption market. The presence of majority of key players providing data encryption solution in the US is driving the growth of the global data encryption market in the region. Technological advancement and increasing adoption of electronic devices and need for their security is also expected to drive the global data encryption market in the region.

Asia-Pacific is expected to grow at the fastest rate in the global data encryption market during the forecast period. Increasing digitization and adoption of cloud technology has led to an increase in the amount of data getting handles in countries like India, China, and Japan which is expected to drive the growth of data automation market in the region. Europe is expected to contribute significantly to the global data encryption market during the forecast period. Technological advancement and presence of key players like Gemalto in the region is expected drive the growth of global data encryption market.

Intended Audience

- Data encryption software developers.
- OEMs
- Software integrators
- Cloud service providers
- Network admins
- IT enterprises
- Technology investors
- Regulatory industries
- Associations and forums related to IT asset disposition
- Government bodies
- Market research firms
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