
Description:

Biometrics includes diverse set of technologies used for measuring and analyzing human body characteristics, such as fingerprints, eye retinas, facial patterns, voice patterns, etc. for authentication purposes. Adoption of biometrics technology has been constantly increasing in India over the last five years. In addition to the most prominent popular method of biometric authentication, that is fingerprint recognition, other means of biometric authentication are rapidly gaining traction in the country due to growing need for data security in diverse sectors. Government projects such as issuance of e-passports and visas, and the Aadhaar system under UDAI (Unique Identification Authority of India), which employ biometric systems for identification and authentication purposes, have been hugely boosting the use of biometric technology.

The growth of Biometrics in India is projected to be huge on account of the proliferated uses of biometric devices in public as well as private sectors. The need for enhanced security and to authenticate the access to confidential data has made the use of biometric devices mandatory for better performance of the organization. The report segments the market by end-user and geography. The market's end users include banking and financial firms, government, consumer electronics, defense, healthcare, home security and safety, transport and logistics, visa authentication services, commercial safety and security, and others (retail, hospitality, automobile and gaming). The report finds the major drivers for the face and voice biometrics market include growth in e-passport program, government support, biometrics in smartphones, use of biometric technology in banking and healthcare, extensive use in criminal identification, use of biometric technologies in election administration and growing need for large scale supervision at public meetings.

As for the key challenges standing in the way of market growth, the report finds that the fear of privacy intrusion and high cost of systems are greatly impacting vendors. On the other hand, there are several key opportunities for face and voice biometrics system in the e-commerce and cloud computing space, according to the report. Interoperability of biometrics system is one of the major burning issues in the market, in addition to the long time frame for implementation. The report also includes profiles of some major market players along with key challenges this industry is currently facing.

Mounting data security concerns are resulting in increasing demand for biometrics in BFSI and consumer electronics, for access control and authentication purpose. Integration of biometric technologies in security systems has been contributing significantly to the growth of biometrics market in India. Further, the mandatory use of time & attendance systems in public and private offices is expected to fuel market growth over the forecast period. Fingerprint biometrics is the largest segment in the market, in terms of revenue contribution, followed by iris and facial recognition segments. Voice recognition, on the other hand, is the fastest growing segment, on account of rising application in banking and growing integration in handheld devices.

Looking at the wide span of usefulness of biometric authentication and identification systems in present scenario, it is expected to have a great market potential in future. An ideal case for this can be taken in reference from a news article published in May, 2015 which states that the state Government of Maharashtra has planned to create a database for criminals. This record will have an account of the physiological attributers of the convict like fingerprints, iris and retina recognition and other personal information by the use of biometrics. This will help the police department to nab the criminals without having much delay in investigation from the conventional way.

The Indian biometric market value is anticipated to grow from $823.46 million in 2014 to $2.06 billion in 2020 at an estimated CAGR of 16.47% from 2015 to 2020. The Government segment is acquiring major share of the market as most of the biometrics devices are deployed in law enforcement, local security, and travel and immigration sectors. The Consumer Electronics are foreseen to have high potential growth by the end of 2020 due to the demand of biometrics integrated devices and rising concern for privacy and security among users. The biometric solutions are being deployed into sectors such as Healthcare, Defense, Airport security, Academics, Banking and Finance and Retail among others.
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