
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 UIDAI (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 attributes 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.
Contents:
1 Report Scope
  1.1 Scope Of Study
  1.2 Report Coverage
  1.3 Research Methodology
  1.4 Research Description

2 Executive Summary

3 Market Dynamics
  3.1 Introduction
  3.2 Market Drivers
    3.2.1 Multi Functional Usage By Government
    3.2.2 Increasing Trend Of Bring Your Own Device (Byod) Across Multifarious Applications
    3.2.3 Increasing Installation Of Biometrics At Work Places
    3.2.4 Mobile Biometrics In Banking Industry
    3.2.5 No Extra Cost Involved In Biometric Enabled Devices
    3.2.6 Increasing Penetration Of Smart Consumer Electronics
  3.3 Market Challenges
    3.3.1 Lack Of Awareness
    3.3.2 Cost Of Deployment
    3.3.3 Cost And Quality War
    3.4 Market Opportunities
    3.4.1 Government Initiatives
    3.4.2 Increasing Education Level
    3.4.3 Growing E-Commerce Market
  3.5 Porter's Five Forces Analysis
    3.5.1 Threat To New Entrants
    3.5.2 Threat From Substitutes
    3.5.3 Bargaining Power Of Suppliers
    3.5.4 Bargaining Power Of Buyer
    3.5.5 Intensity Of Competitive Rivalry

4 Indian Biometric Authentication Market
  4.1 Market Statistics
  4.2 Components Of A Biometric Access Control
    4.2.1 Input Extraction
    4.2.2 Transmission & Signal Processing
    4.2.3 Quality Assessment
    4.2.3.1 Factors Affecting Biometric Quality
    4.2.4 Data Storage
  4.3 Classification Of Biometric , By Modality
    4.3.1 Systems Based On Physiological Parameters
      4.3.1.1 Face Recognition Systems
        4.3.1.1.1 Market Statistics
        4.3.1.1.2 Perspective Technology
        4.3.1.1.3 Existing Solutions
        4.3.1.1.4 Application Areas
        4.3.1.1.5 Key Players
      4.3.1.2 Eye Based Recognition System
        4.3.1.2.1 Market Statistics
        4.3.1.2.2 Eye Based Biometric By Type
          4.3.1.2.2.1 Iris Recognition System
          4.3.1.2.2.2 Retina Recognition System
      4.3.1.3 Hand Based Recognition System
        4.3.1.3.1 Fingerprint
          4.3.1.3.1.1 Automated Fingerprint Identification System (Afic)
          4.3.1.3.1.2 Market Statistics
          4.3.1.3.1.3 Application Scenario
          4.3.1.3.2 Vein Pattern Based Recognition System
            4.3.1.3.2.1 Advantages And Disadvantages Of Vein Pattern Based Recognition System
            4.3.1.3.2.2 Market Statistics
            4.3.1.3.2.3 Application Scenario
          4.3.1.3.3 Palm Print
4.3.1.3.3.1 Market Statistics
4.3.1.3.4 Models Of Biometric System
4.3.2 Systems Based On Behavioral Parameters
4.3.2.1 Voice Recognition System
4.3.2.1.1 Market Statistics
4.3.2.1.2 Market Statistics
4.3.2.1.3 Benefits Of Voice Recognition System
4.3.2.1.4 Drivers And Challenge For Voice Based System
4.3.2.2 Handwritten Recognition System
4.3.2.2.1 Market Statistics
4.3.2.2.2 Market Statistics
4.3.2.2.3 Signature Based Authentication Systems
4.3.2.2.4 Drivers And Challenges For Handwritten Based Recognition Systems
4.3.2.3.1 Keystroke Recognition Systems
4.3.2.3.2 Market Statistics
4.3.2.3.3 Market Statistics
4.3.2.3.4 Drivers And Challenges Of Keystroke Recognition Systems
4.3.2.3.5 Advantages And Disadvantages Of A Keystroke Recognition System
4.3.3 Multimodal Biometric Systems
4.3.3.1 Fusion In Multi Modal Biometric System

5 Indian Biometric Authentication And Identification Market, By Motility
5.1 Market Statistics
5.2 Fixed Biometric Devices
5.2.1 Market Statistics
5.2.2 Application Of Fixed Biometrics Devices
5.3 Mobile Biometrics Devices
5.3.1 Market Statistics
5.3.2 Features Of Mobile Biometric System
5.3.3 Mobile Biometrics In Consumer Electronics
5.3.4 Market Drivers For Mobile Biometric Systems
5.3.5 Market Challenges For Mobile Biometric Devices
5.3.6 Mobile Biometrics By Modality
5.3.6.1 Mobile Biometrics By Modality: Facial
5.3.6.2 Mobile Biometrics By Modality: Voice
5.3.6.3 Mobile Biometrics By Modality: Fingerprints
5.3.6.4 Mobile Biometrics By Modality: Eyes
5.3.6.5 Mobile Biometrics By Modality: Others

6 Indian Biometrics Identification And Authentication Market, By Application
6.1 Market Statistics
6.2 Enterprise
6.2.1 Market Statistics
6.2.2 Market Drivers For Enterprise
6.3 Banking & Finance
6.3.1 Market Statistics
6.3.2 Application Of Biometrics In Atm
6.3.4 Advantages Of Banking And Finance
6.3.5 Drivers And Challenges
6.3.6 Recent Developments
6.4 Government
6.4.1 Market Statistics
6.4.2 Recent Developments
6.5 Healthcare
6.5.1 Market Statistics
6.6 Consumer Electronics
6.6.1 Market Statistics
6.7 Retail And Commerce
6.7.1 Market Statistics

7 Company Profiles
7.1 Introduction
7.2 3M Cogent
7.3 Crossmatch
7.4 Essl
7.5 Symantec
7.6 Safran Morpho

List of Tables
Slide. No
1 Sectors Included Under Each Biometric Identification And Authentication Application
2 India Biometric Authentication And Identification Market By Modality, 2014-2020 ($Million)
3 Indian Facial Recognition Biometric Market, By Motility,2014-2020 ($Million)
4 Indian Facial Recognition Biometric Market, By Application,2014-2020 ($Million)
5 Indian Eye Based Biometric Market, By Motility,2014-2020 ($Million)
6 Indian Eye Based Biometric Market, By Application,2014-2020 ($Million)
7 Indian Fingerprinting Biometric Market By Motility,2014-2020 ($Million)
8 Indian Fingerprinting Biometric Market By Application, 2014-2020 ($Million)
9 Indian Vein Pattern Biometric Market By Motility,2014-2020 ($Million)
10 Indian Vein Pattern Biometric Market By Application,2014-2020 ($Million)
11 Indian Palm Print Biometric Market, By Motility,2014-2020 ($Million)
12 Indian Palm Print Biometric Market, By Application,2014-2020 ($Million)
13 Comparing The Biometrics Modalities Based On A Set Of Characteristics
14 Comparison Of Palm Print Unimodal Vs Multimodal Biometric Systems
15 Indian Voice Modulation Biometric Market By Motility, 2014-2020 ($Million)
16 Indian Voice Modulation Biometric Market By Application, 2014-2020 ($Million)
17 Indian Handwritten/Signature Biometric Market, By Motility, 2014-2020 ($Million)
18 Indian Handwritten/Signature Biometric Market, By Application, 2014-2020 ($Million)
19 Indian Market Of Other Biometric, By Motility, 2014-2020 ($Million)
20 Indian Market Of Other Biometric, By Application, 2014-2020 ($Million)
21 Challenge Faced While Identification Process, In Different Modalities
22 Indian Biometric Market, By Motility, 2014-2020 ($Million)
23 Indian Fixed Biometric Market, By Motility, 2014-2020 ($Million)
24 Indian Mobile Biometric Market, By Motility, 2014-2020 ($Million)
25 Indian Mobile Facial Recognition Biometric Market ($Million)
26 Indian Mobile Voice Modulation Biometric Market ($Million)
27 Indian Mobile Fingerprint Biometric Market ($Million)
28 Indian Mobile Eye Based Biometric Market ($Million)
29 Indian Biometric Market By Application, 2014-2020($Billion)
30 Indian Enterprise Biometric Market, By Modality,2014-2020($Million)
31 Indian Banking & Finance Biometric Market, By Modality,2014 2020($Million)
32 Recent Developments
33 Indian Government Biometric Market, By Modality, 2014-2020($Million)
34 Recent Developments
35 Indian Healthcare Biometric Market, By Modality, 2014-2020($Million)
36 Indian Consumer Electronics Biometric Market, By Modality, 2014-2020($Million)
37 Indian Retail & Commerce Biometric Market, By Modality, 2014-2020($Million)
38 3M Cogent: Key Developments
39 Crossmatch –Overall Financials ($Million)
40 Essl Security: Key Developments

List Of Figures
Slide No
1 Biometric Identification And Authentication Market
2 Research Methodology
3 Research Methodology
4 Indian Biometric Authentication And Identification Market Value And Annual Growth Rate
5 Indian Biometric Authentication And Identification Market, By Application, 2014-2020 ($Million)
6 Indian Biometric Authentication And Identification Market, By Modality, 2014-2020 ($Million)
7 Indian Biometric Authentication And Identification Market, By Motility, 2014-2020 ($Million)
8 Market Drivers
9 Porter’S Five Forces Analysis
10 Indian Biometric Authentication Market, By Modality
11 Biometric Authentication System: Basic Components
12 Effective Quality Assessment: Basic Factors And Their Possible Variation Causes
13 Basic Degradations In A Biometric Image
14 Segmentation Of Biometric Systems Based On Behavioral Parameters
15 Factors Affecting The Facial Recognition System'S Performance
16 India Biometrics Authentication Market, By Modality: Eye
17 The Multifarious Applications For Automated Fingerprint Identification Systems (Afis)
18 The Multifarious Applications For Automated Fingerprint Identification Systems (Afis)
19 Advantages And Disadvantages Of Vein Pattern Based Recognition System
20 The Drivers And Challenges For Voice Based Recognition System
21 The Drivers And Challenges For Handwritten Based Recognition Systems
22 Drivers And Challenges Of Keystroke Recognition Systems
23 Global Biometric Authentication And Identification Market: Motility
24 Application Areas Of Fixed Devices
25 Market Drivers For Mobile Biometrics
26 Global Biometric Authentication And Identification Market : Application
27 Application Of Biometrics In Atm
28 Advantages Of Biometric Authentication And Identification System In Bank And Finance
29 Biometrics-Based Benefits For Microfinance Institutions
30 Cogent: Net Revenue Overall
31 Cogent: Net Revenue Segment Wise

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