

Forward

Goode Intelligence

Author

Goode Intelligence Methodology

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Market Drivers

Market Barriers

Financial Services and Payments Biometric Regulation and Technology Standards

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Regulation

Data Protection Regulation

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USA Data protection Regulation

California

Illinois

New York

Texas

Washington

Asia-Pacific Data protection Regulation

Australia

Singapore

South America Data protection Regulation

Brazil

European Union Payment Services Directive (PSD2)

European Union Payment Services Directive (PSD3)

Anti-Money Laundering (AML) and Know Your Customer (KYC) Regulation

Industry Regulation / Guidelines

PCI-DSS

USA FFIEC

EMV

EMV 3D Secure

Bank of Korea

State Bank of Vietnam

### The Payments and Clearing Association of China

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ISO

ANSI

UK CESG

USA NIST

The FIDO Alliance

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Biometric Payment Transactions

Payment Channels

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Digital Wallets

Mobile OEM Payment Wallets

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Google Pay

Samsung Pay

Alternative Payment Providers of Digital Wallets

Payment Card Scheme Digital Wallets

Bank Payment Wallets

Payment Cards

Physical Biometric Payments

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Mobile Payments – Digital Wallets

Biometric Payment Cards

How does the technology work

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Biometric Payment Card Commercial Rollouts

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POS Integration

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POS Integrated Biometric Payments – Market Adoption/Analysis

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Clear – Biometric Payment at USA Football Stadia

PayEye – Iris-based Payments in Poland and Worldwide

Aadhaar Pay

Alipay “Smile to Pay”

WeChat Pay – Pay by Palm

Amazon One – Palm Biometric Payments

J.P. Morgan

Forecasts

Biometric ATMs (Cash Payments)

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Cash

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### Biometrics For Payment Fraud Management

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Biometrics For Payment Fraud - Adoption

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Ireland – AIB Partners with Daon for Selfie Payment Check

Forecasts

### Biometric Technology – Analysis, Forecasts & Vendors

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Behavioral Biometrics

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Biometric Payment User Forecasts – Behavioral

Biometric Payment Revenue Forecasts – Behavioral

LexisNexis Risk Solutions BehavioSec

BioCatch

Feedzai

TypingDNA

Advantages and Disadvantages of Behavioral Biometrics

Face

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Face Biometric Technology Vendors and Service Providers

Cognitec

Daon

Goode Intelligence Interview with Daon

FaceTec

FacePhi

Face++

HID Global

Goode Intelligence Interview with HID Global

IDEORIA

ID R&D

iProov

Goode Intelligence Interview with iProov

Paravision

Thales

Advantages and Disadvantages of Face Biometrics

Fingerprint

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Technology Vendors and Service Providers –Fingerprint Sensor Manufacturers and Authentication Integrators

Dermalog

Fingerprint Cards

INDEX Biometrics

Goode Intelligence Interview with IDEX Biometrics

Lumidigm - HID Global

NEXT Biometrics

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Qualcomm

Zwipe

Advantages and Disadvantages of Fingerprint Biometrics (Sensors).....

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FARx

Nice

Nuance

Lumenvox

Phonexia

Advantages and Disadvantages of Voice Biometrics

Finger Vein

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Biometric Payment Forecasts – Finger-Vein Sensor Shipments

Biometric Payment Revenue Forecasts – Finger-Vein

Technology Vendors and Service Providers

Hitachi

Advantages and Disadvantages of Finger-Vein Biometrics

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Amazon One

Fujitsu

#### Advantages and Disadvantages of Palm-Vein Biometrics

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Redrock Biometrics

#### Advantages and Disadvantages of Palmprint Biometrics

### Forecasts

#### Methodology and Assumptions

#### Biometric Payments Forecasts

##### Introduction

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Biometric Payments User Forecasts – Digital Onboarding

Biometric Payments User Forecasts – Payment Transactions

Biometric Payments User Forecasts – Digital Transaction Users

Biometric Payments User Forecasts – Physical Transaction Users

Biometric Payment User Forecasts – Mobile Wallet Users at the Point-Of-Sale

Biometric Payment User Forecasts – Biometric Payment Card Users

Biometric Payment User Forecasts – Integrated POS Users

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- Biometric Payments User Forecasts – Biometric Fraud Management
- Biometric Payments User Forecasts – Total (Combined) Users
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  - Biometric Payments Forecasts – by Modality: Finger-Vein sensor Shipments
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Biometric Payments Revenue Forecasts – by Biometric Modality: Behavioral

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Biometric Payments Revenue Forecasts – by Biometric Modality: Palm-Vein

Biometric Payments Revenue Forecasts – by Biometric Modality: Palmprint

Biometric Payments Revenue Forecasts – by Biometric Modality: Face

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Biometric Payments Revenue Forecasts – By Device: Integrated POS Terminals

Biometric Payments Revenue Forecasts – by Device: Automotive

Biometric Payments Revenue Forecasts – Total (Combined) Revenue