PRECISION BIOMETRIC | InnaIT IDENTITY SECURED

IDENTITY SECURED

Zero-Trust Identity and Simplified Passwordless Solution

One platform that verifies every human and non-human identity, secures access to every application, and removes passwords entirely without adding friction for your users.

Fort Knox security without compromising user security

Biometrics · PKI · Passwordless · MFA · SSO · Zero Trust

4-IN-1 BOX SOLUTION

Fort Knox security without compromising user security

One unified solution that answers the four questions every enterprise has to resolve about identity, replacing four separate products, four vendors and four administrative consoles with a single platform.

1

IDAM

Identity and Access Management – who the user is

2

PIM / PAM

Privileged Identity and Privileged Access Management

3

IGA

Identity Governance and Administration across the user lifecycle

4

BAS

Biometric Authentication Suite – face, fingerprint, and tokens

Biometrics | PKI | Passwordless | MFA | SSO | Zero Trust

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THE CHALLENGE

Enterprise Challenges in an Evolving Digital World

Cloud, SaaS, on-premises, hybrid and edge, every environment introduces new identity and access challenges. The perimeter is gone, and identity is now the control plane.

Fragmented Environments

Cloud, SaaS, on-premises, hybrid and edge, every environment introduces new identity and access challenges.

Distributed Workforces

The growth of remote and distributed teams has further expanded the identity attack surface.

Data Sprawl

Enterprise data is growing across multiple systems, platforms and silos, making it harder to control who can access what.

Legacy Authentication

Passwords, traditional SSO and conventional MFA create friction for users and no longer stop sophisticated attacks.

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THE BUSINESS PROBLEM

Rising Identity Risks

62%

of security breaches involve the human element, including compromised credentials, phishing and social engineering.

2026 Verizon DBIR

30%

of initial access vectors in APAC come from compromised or valid credentials, the region's second leading cause of cyberattacks.

X-Force Threat Intelligence Index 2026

Compromised credentials remain the single most exploited entry point into the enterprise.

WHAT ENTERPRISES NEED NOW

A modern identity strategy built on **Zero Trust** and **Passwordless authentication**, one that continuously verifies every human and non-human identity, secures access to applications and data, and reduces cyber risk without adding friction.

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THE GAP

Why Traditional Security Falls Short

Authentication is an event. Trust must be continuous.

SSO

A single compromised account can expose multiple applications at once.

MFA

Susceptible to phishing, SIM swap, push fatigue and OTP interception attacks.

Passkeys

Strong security, but challenging to deploy and manage at enterprise scale.

Even phishing-resistant credentials do not protect what happens after a user logs in.

Attackers now target authenticated sessions, browsers, trusted devices and fallback mechanisms, unauthorized access is possible without ever breaking the passkey itself.

- AI-powered phishing
- Session hijacking
- Browser compromise
- Malware & fallback abuse

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Enterprise Identity Challenges

Identity Sprawl

100+ SaaS applications create fragmented, disconnected identities.

MFA Bypass

Sophisticated attacks continue to evade traditional MFA controls.

Multi-Cloud Complexity

Identities must be secured across hybrid and multi-cloud environments.

Poor User Experience

Password resets reduce productivity and increase IT workload.

Growing Regulatory & Compliance Requirements

Organizations must comply with evolving global data privacy and security regulations, such as DPDPA (India), driving the need for robust identity and data protection.

Verify every user, device and session throughout the entire access lifecycle.

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THE ANSWER

The Need of the Hour

Secure every identity. Simplify every login.

- **True end-to-end passwordless authentication**
- **Phishing-resistant identity security**
- **Seamless user experience across devices**
- **Zero Trust access for every user and application**
- **Unified identity management across cloud, SaaS and on-premises**
- **Simplified administration with stronger security**

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THE ANSWER

Why InnaIT?

InnaIT is an identity and authentication platform that uniquely combines **Public Key Infrastructure (PKI)** and **biometrics**. It enables secure Identity and Access Management (IAM), Zero Trust security frameworks and passwordless authentication, while providing trusted transaction authorization and digital signing, safeguarding every interaction with strong cryptographic security and biometric assurance.

Secure, Passwordless Authentication

No passwords to steal, phish or reset.

Trusted Digital Signing

Cryptographically bound, non-repudiable approvals.

Robust Identity Governance

Full control over who has access to what, and why.

Compliance-ready Infrastructure

Built to satisfy evolving global regulations.

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THE ANSWER

Compliance, Governance & Standards

- **CERT-In Certified**
- **FIDO2 & WebAuthn Compatible**
- **PKI-Based Security**
- **Compliance Ready**
- **Secure Encryption**
- **Trusted Digital Identity**

STANDARDS & CRITERIA

- FIDO2, FIPS 140-2 / 140-3, CERT-In compliance, Common Criteria (CC EAL 6+)
- PII & data privacy enabled
- Meets global regulatory compliance, auditability & scalability
- Authentication, Authorization & Non-Repudiation (AAN)

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THE SOLUTION

The 4-in-1 Box Solution

IDAM 01

Who the user is?

Identity & Access Management, verifying identity, enforcing access policies and recording every action taken, between your users and your systems.

PIM / PAM 02

How is privileged access to critical systems controlled?

Privileged identity and access control for servers and critical infrastructure, with full visibility of who is behind a privileged account right now.

IGA 03

What should each identity be allowed to reach, and for how long?

Identity governance and administration across joiner, mover and leaver, closing the gaps attackers exploit through orphaned accounts and excessive privileges.

BAS 04

How does the user authenticate every day?

Biometric Authentication Suite, one identity layer for face, fingerprint, and tokens, with liveness checks and encrypted templates.

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WHY IT ADDS UP

The Case in Four Lines

- **One product instead of four.** Fewer servers, a lighter administrative load.
- **Single-window visibility.** One console for identity, access, privileges and governance.
- **End-to-end PKI-backed audit trails.** Tamper-evident evidence for every access decision.
- **Made in India.** Built and supported by Precision Group, truly Atmanirbhar.

Secure Every Identity. Authenticate Every Access. Govern Every Privilege.

Biometrics · PKI · Passwordless · MFA · SSO · Zero Trust

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Identity & Access Management (IDAM)

IDAM answers two fundamental questions about every user in your organization: **who are you, and what are you allowed to access?** IDAM sits between your users and your systems, verifying identity, enforcing access policies and recording every action taken.

PKI + Biometrics

Public-key cryptography paired with biometric verification. What you HAVE × what you ARE, multi-factor by design.

Hardware-Backed Identity

Private keys stored in a tamper resistant secure element. Authentication happens on device, secrets never leave the hardware.

Zero-Trust Architecture

Every request is verified before access is granted. Origin-bound challenges defeat phishing, replay and MITM attacks.

Users
Employees & Admins

→

InnaIT
IDAM: verify, enforce, record

→

Resources
Apps, Servers & Systems

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IDENTITY & AUTHENTICATION

Biometric Authentication Suite (BAS)

Secure. Passwordless. Identity-centric authentication.

A unified biometric authentication solution that enables organisations to verify users through their unique biometric identity, reducing dependency on passwords while strengthening security and user experience. One identity layer for face, fingerprint, and tokens; with liveness checks and encrypted templates – across web, mobile and kiosk.

Multi-modal capture

Face, fingerprint, and tokens, fused into one confidence score.

Liveness detection

Passive and active checks reject photos, masks and replays.

Template protection

Encrypted, revocable templates, never raw images.

Open integration

FIDO2, OIDC and SAML, with SDKs for web, iOS and Android.

ONE IDENTITY LAYER FOR

Face | Fingerprint | Tokens

ACROSS EVERY CHANNEL

Web | Mobile | Kiosk

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Privileged Identity Management (PIM)
Privileged Access Management (PAM)

Administrator and root access to servers and critical infrastructure. Privileged identity and access control for the systems that matter most, answering the question **who is behind the privileged account right now?**

PIM

Focused on the user lifecycle for privileged accounts

- Manage the identities of those trying to access data
- Monitor the activity of privileged accounts
- Minimize the risk of cyber threats

PAM

Focused on sensitive information and resources for special users

- Managed privileged accounts with enhanced security
- Session recording for RDP / SSH access
- Help comply with safety standards

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Identity Governance and Administration (IGA)

Authentication answers who a user is. Governance answers what that user should be allowed to access, and for how long. From the moment a user joins to the day they leave, InnaIT automates provisioning, access changes and de-provisioning across cloud, SaaS and on-premises applications, closing the gaps attackers exploit through orphaned accounts and excessive privileges.

Key Capabilities

- Automated user lifecycle management (joiner, mover, leaver)
- Self-service access requests with policy-based approval workflows
- Periodic access certification and review campaigns
- Role-Based Access Control (RBAC) and Segregation of Duties enforcement
- Orphaned and dormant account detection
- Centralized audit trails and compliance reporting

Business Benefits

- Reduced risk from excessive privileges and orphaned accounts
- Faster, error-free onboarding and offboarding
- Audit readiness for RBI, GDPR, DPDPA and other frameworks
- Lower administrative overhead through automation
- Complete visibility into who has access to what, and why

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Core Pillars

Frictionless, Passwordless Security

Seamless integration and secure access across all enterprise systems. InnaIT manages identities and authenticates users securely, delivering centralized identity management and frictionless authentication for every enterprise application.

Inclusivity as a Security Strategy

Enterprise-grade security should be simple, intuitive and accessible. InnaIT delivers a user-friendly authentication experience that enables people of all ages and technical abilities to securely access digital services with confidence.

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THE PLATFORM

InnaIT Framework

Integrating solution, architecture and value

A modular identity and authentication platform that brings biometric hardware, software and secure authentication services into a single, scalable solution. It eliminates the need to integrate multiple security tools, enables seamless authentication across applications, and grows with your organization's needs.

ONE SERVER COMPONENT + YOUR CHOICE OF CLIENT

InnaIT Server

Authentication, policy and audit services.

\+

InnaITKey

Biometric hardware security key.

InnaIT Soft Token

Software client for rapid rollout.

- Modular & scalable
- SDK-based integration
- Tamper-resistant audit trails
- Single unified platform

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THE ARCHITECTURE

Three-Layer Security Architecture

1 Software Layer

Intelligent Identity Platform

KEY CAPABILITIES

- Passwordless authentication
- SSO & MFA Identity Provider (IdP)
- Biometric authentication
- APIs, SDKs & enterprise integrations

BUSINESS BENEFITS

- Seamless user experience
- Rapid rollouts & faster value
- Reduced password costs
- High user adoption

2 Hardware Layer

InnaITKey Biometric Security Key

KEY CAPABILITIES

- Fingerprint authentication
- Hardware root of trust
- Secure key storage
- USB / NFC connectivity

BUSINESS BENEFITS

- Phishing-resistant access
- Zero credential exposure
- Strong hardware encryption
- Enhanced user trust

3 Server Layer

Enterprise Identity Services

KEY CAPABILITIES

- Authentication server
- FIDO2 / WebAuthn support
- PKI integration · Policy & risk engine
- Audit & reporting

BUSINESS BENEFITS

- Centralized identity control
- Compliance readiness
- Scalability across environments
- Full audit visibility

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How Does It Work?

A passwordless login, end-to-end with eight steps, no shared secret at any point.

Customer → Identity → Credential → Device → **Trust** → Channel → Transaction

Trust is evaluated continuously across every element of the access chain.

1 Login request sent

The user initiates login from their PC to the enterprise application server.

2 Request forwarded

The application server forwards the authentication request to the InnaIT Server.

3 Verify via InnaITKey

The InnaIT Server issues a verification challenge back to the user's PC.

4 Verification command

The command is passed to the InnaITKey or InnaIT Soft Token.

5 Fingerprint verified

The user authenticates biometrically on the key or soft token.

6 Success relayed

The verified result is relayed from the user's PC to the InnaIT Server.

7 Access token issued

The InnaIT Server issues an access token to the application server.

8 Login granted

The enterprise application grants the user access — no password involved.

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AUTHENTICATION OPTIONS

13 Ways to Authenticate

Mix and match, administrators define which factors satisfy which assurance level, per application.

InnaITKey
Match-on-device

FIDO
WebAuthn

Fingerprint Scanner
Match-on-host

Face
Facial recognition

Smart Card
NFC tap

DSC
Digital Signature Certificate

InnaIT Authenticator
Push + QR scan

Passcode
COTP / TOTP

Offline Authenticator
Air-gapped use

Active Directory
Enterprise SSO

SMS
OTP via mobile

Email
OTP via inbox

Password
Contingency fallback

Every factor can be layered for step-up authentication and per-application assurance levels.

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WORKFORCE IDENTITY

InnaIT for the Workforce (WIAM)

Tailored to the entire work cycle of an employee, from first login to offboarding.

Windows Login

Passwordless endpoint login replaces the Windows password screen entirely.

Application Launch

Enterprise SSO across CRM, ERP and legacy applications.

Server Launch

Privileged access to RDP/SSH servers, every session recorded for audit.

Credential Vault

A personal password manager, built directly into InnaIT.

Identity Governance

HRMS integration, Joiner-Mover-Leaver, policy-based & JIT access, certification workflows.

Seamlessly connected to Active Directory

InnaIT integrates with your organization's AD to pull user records for seamless onboarding. Domain access is mapped automatically, and AD passwords can be centrally managed and rotated by InnaIT.

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Authentication Device Types

InnaITKey: The flagship

- PK1101 fingerprint scanner built-in
- PK1210 touch sensor with face auth support

Match-on-host devices

- PB510 L0 Enterprise
- PB2010

Device native

- InnaIT Authenticator App
- Face authentication via built-in or external webcam

DSC tokens

- PK110X-DSC upgrade: highest security
- PK32XX-DSC (USB-A) / PK31XX-DSC (Type-C)

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THE VALUE

Key Benefits of InnaIT

The advantages of deploying InnaIT across an organization.

More Productivity

One sign-on gives access to everything; vault, applications and infrastructure with no context switching.

Eliminate Passwords

Remove the #1 attack vector. Passwordless-first, with fallbacks available where needed.

Zero Trust

Every session, connection and transaction is verified before access is granted.

Audit Logs & Reports

Detailed, tamper-evident logs of every login, session and privileged action.

Phishing Resistant

Origin-bound cryptographic challenges, authentication to spoofed sites is cryptographically impossible.

Easy Integration

OIDC, SAML, FIDO2 and Active Directory, plug in and go, legacy apps supported too.

Lower Operating Costs

Cuts password-reset tickets up to 40% of typical IT help desk volume and the overhead that comes with them.

Compliance Ready

Built-in audit trails and policy enforcement support MeitY/CERT-In, RBI, UIDAI and other regulatory mandates.

One Platform, Every User

A single platform secures your workforce, customers and citizens, no separate systems to manage.

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THE VALUE

Our Client Portfolio

Trusted by conglomerates, corporates, enterprises, PSUs and digital infrastructure leaders.

- Indian PSU defence electronics and aerospace company
- Premier technology partner and e-governance builder for the Government of India
- Digital payments technology company
- Technology & platform based BPO service provider
- Pharmaceutical manufacturing facility
- Global digital transformation company
- Enterprise technology transformation services
- Indian multinational pharmaceutical company
- Global technology consulting and digital transformation services provider

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PROVEN AT SCALE

Success Story

Passwordless banking at scale: 120,000+ users secured with biometric MFA

When one of India's largest private sector banks needed to eliminate password-based risks and address RBI CSITE observations, Precision Biometric delivered a fully automated biometric MFA solution integrated with the bank's identity ecosystem.

120,000+

users secured

16×

higher throughput than required

Zero

unplanned downtime

Three

consecutive years of zero RBI CSITE and internal audit observations

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PROVEN AT SCALE

Certifications & Patents

FIDO Alliance

Certified member

CERT-In

Empaneled & certified

CMMI DEV ML3

Appraisal #83001
exp. 08 Jun 2029

Granted Patents

No. 425769 · 20 Mar 2023
No. 564581 · 29 Mar 2025

STANDARDS & COMPLIANCE

- FIDO2
- FIPS 140-2 / 140-3
- CERT-In compliance
- Common Criteria (CC EAL 6+)
- PII & data privacy enabled
- Auditability & scalability
- Authentication, Authorization & Non-Repudiation (AAN)

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PRECISION BIOMETRIC | InnaIT IDENTITY SECURED

Secure the future of digital identity

With over three decades of expertise in secure identity solutions, Precision Biometric helps enterprises, financial institutions and governments build trusted digital ecosystems. InnaIT stands ready to protect every identity, secure every interaction and enable digital trust at scale.

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