



The Blend of Fort KnoX Security and User X

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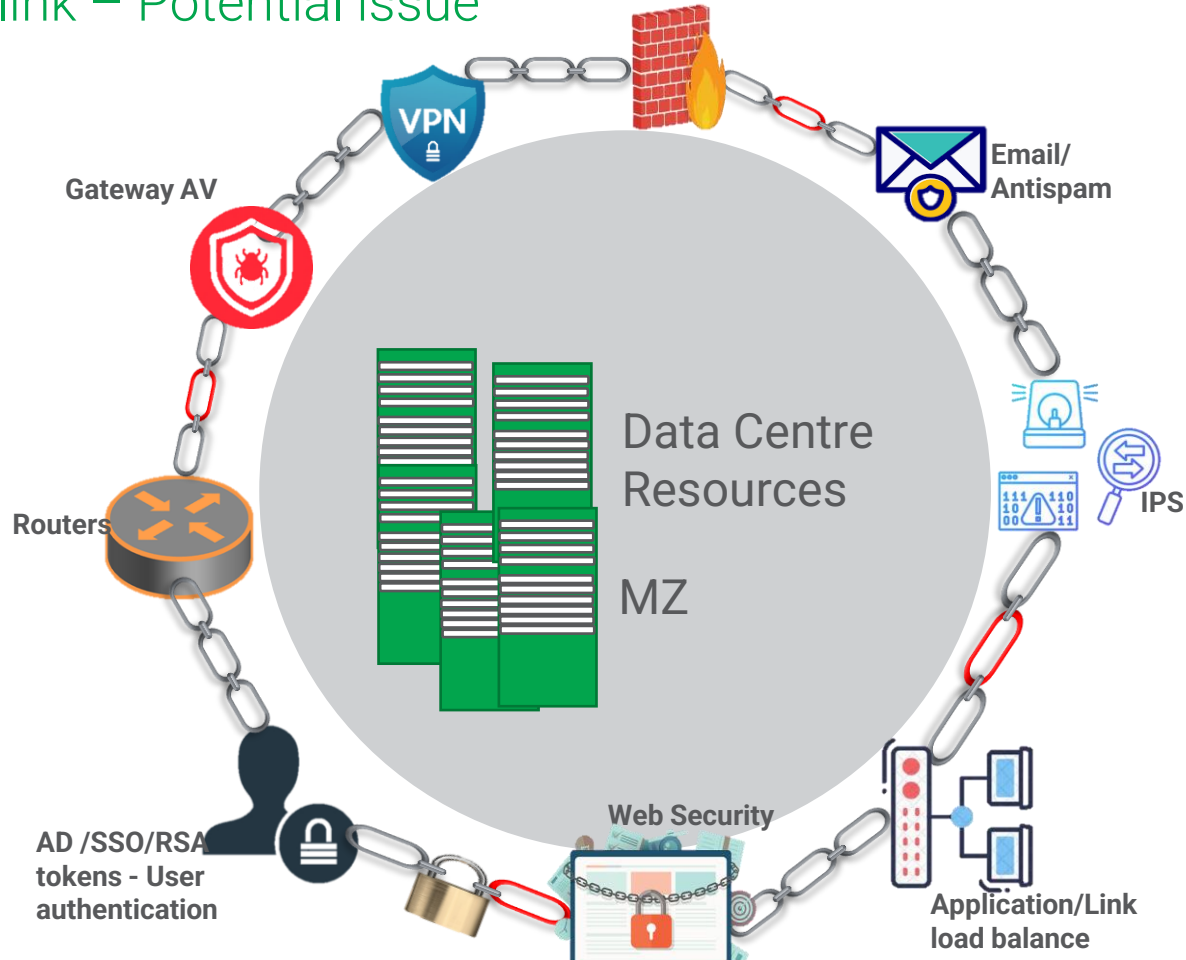
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Weakest link – Potential issue



Policy
Technology
Training
Education
Audit

Why password less



- According to a Verizon Data Breach Report, 80 percent of data breaches are the result of poor or reused passwords



81%
of breaches leveraged
stolen or weak
**** passwords ****

(Verizon Data Breach Investigations Report 2017)

Why people forget password – Sample guidelines



Policy for constructing a password: All user-level and system-level passwords must conform to the following general guidelines described below.

3.2.1 The password shall contain more than eight characters.

3.2.2 The password shall not be a word found in a dictionary (English or foreign).

3.2.3 The password shall not be a derivative of the user ID, e.g. 123.

3.2.4 The password shall not be a slang, dialect, jargon etc.

3.2.5 The password shall not be a common usage word such as names of family, pets, friends, co-workers, fantasy characters, etc.

3.2.6 The password shall not be based on computer terms and names, commands, sites, companies, hardware, software.

3.2.7 The password shall not be based on birthdays and other personal information such as addresses and phone numbers.

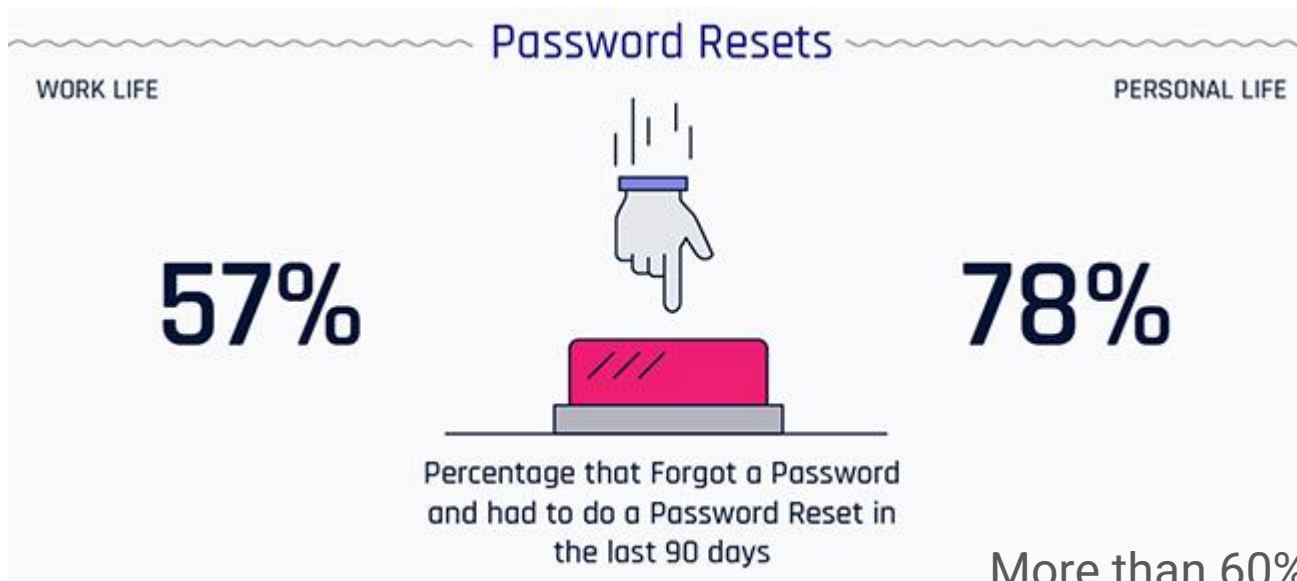
3.2.8 The password shall not be a word or number pattern like aaabbb, qwerty, zyxwvuts, 123321, etc. or any of the above spelled backwards.

3.2.9 The password shall not be any of the above preceded or followed by a digit (e.g., secret1, 1secret).

3.2.10 The password shall be a combination of upper and lower case characters (e.g. a-z, A-Z), digits (e.g. 0-9) and punctuation characters as well and other characters (e.g., !@#\$%^&*()_+|~=-\`{}[]:;'"<>?,./).

3.2.11 Passwords shall not be such that they combine a set of characters that do not change with a set of characters that predictably change.

Typical password Resets - by [Help Net Security](#)

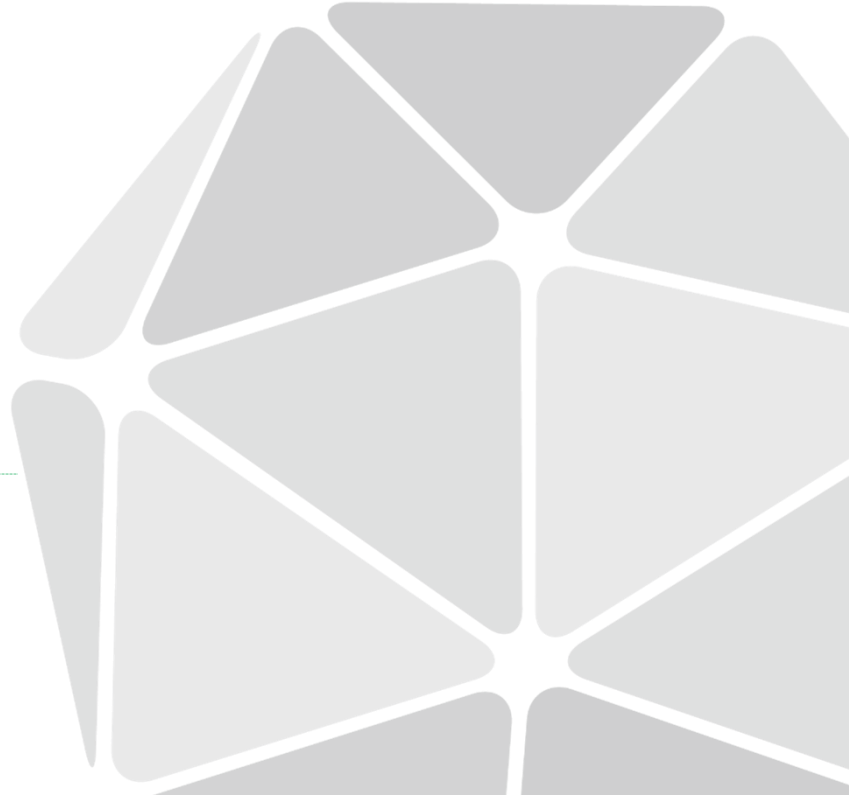


More than 60% Feel annoyed on forgetting password -okta



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GROUP

InnaIT^{Key}: Secure Access Value Proposition



Value Proposition



Prevent Identity Frauds

- Eliminate Credential Compromise
- Block Phishing Attacks
- Prevent Credential sharing
- Reduce Financial, Business, Reputation & Operation Risks

Approach

- Leverage PKI & Biometrics
- Near Zero Trust Access
- [Common authentication for Mobile and Browser Applications](#)
- Data to enable AI / ML models

Benefits: Security

- [Dynamic Authentication](#)
- Multi factor Authentication
- Transaction Authorization
- [Signing](#) – Authenticity & Non-Repudiation

Benefits: User Experience

- Friction less, Password less Authentication
- Increased Productivity

Benefits: Costs Savings

- SMS OTP Costs
- Less IT Workload



CIAM Problems



Vulnerable User Names / Passwords



Man-in-the-Middle attacks



Phishing Attacks



**Issues with OTP (SMS) – SIM cloning | SMS delivery failures
Cost Savings**

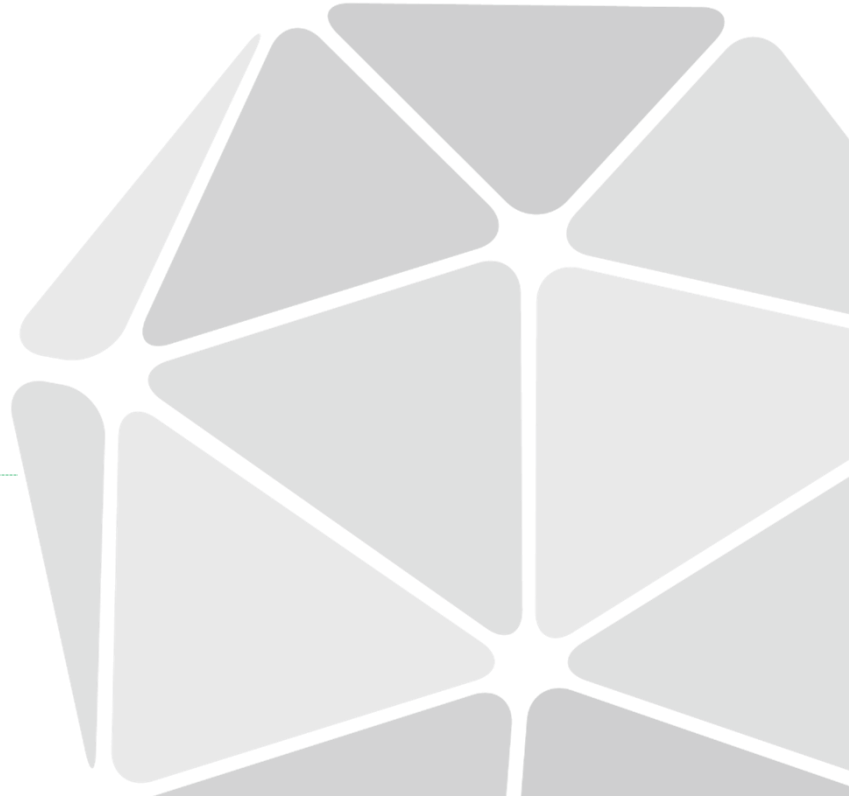


Security concerns due to Multiple devices access.

How to ensure digital transactions are genuine and not fraudulent?



The Product ...



InnalT^{Key} - Security Overview



Highly Secure Controller certified to Common Criteria EAL 6+ (high)

- Associated with Non-Mutable serial number of key

Cryptography

- **Authentication** (Asymmetric) – ECC up to 521 bits and RSA up to 4096; **TRNG** - AIS 20/31 PTG.2 Compliant
- **Key Exchange** – ECDH/E, RSA; **Cipher** (Symmetric) – AES256-GCM;
- **HMAC** – SHA256; **Signing** – SHA256ECDSA, SHA256RSA

Standards / Protocols – TLS 1.3, OpenID Connect, SAML, FIDO2 ...

Extremely fast, Anti-spoof, Match in Sensor

- **Biometric Data never leaves the sensor**

FIDO2 L2 - Certified



Use Cases ...



Precision's InnalT Framework for Enterprises



The need for Secure Access: Reliable Identification, Prevention of Impersonation, Elimination of Password fatigue & issues related to Password compromise, Non-repudiation, Audit Trails, Compliance

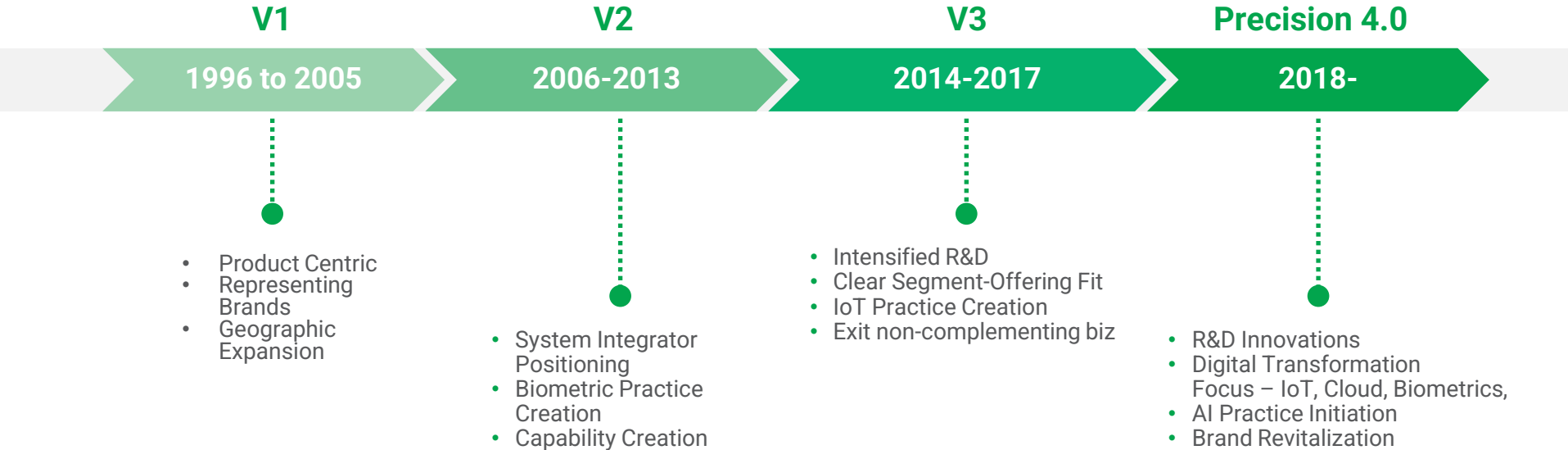




PRECISION 4.0



Precision | Evolution



Precision Group | Overview



LEVERAGE
TECHNOLOGY
to enable outcomes
that matter

Biometrics | IoT | Cloud
Systems Integration | Managed Services

25 Years
in business

Team of **2400+**
professionals

Focus on
R&D and IP
creation

Pan India
presence
Offices in major
metros
250+ support
locations

Precision Group | Offerings Spectrum



Biometric

InnaIT Framework Solutions for Enterprises:
2FA | eSSO, BioNIX, BioAD, EVS, Vault, TAS
InnaIT^{Key} Solutions for:
BFSI, Auto & Enterprises
Solutions for Aadhaar Ecosystem:
Authentication, e-KYC, AEBAS
STQC Certified FP scanners



Internet of Things

PIVOT - Precision's Value Added IoT Framework Solutions:
Consumer IoT
Commercial IoT
Industrial IoT
Select Smart City projects



Systems Integration & Cloud

Data Center Solutions
HPE Platinum Partner
GreenLake, Synergy, SimpliVity, Nimble, Hybrid IT
Nutanix Master Partner
Cloud Solutions – AWS & Azure
Networking Solutions
Security Solutions
Technology Consulting



Managed Services

Data Center, Network, EUC & Security Mgt
Cloud Management
End-user support
Remote Infrastructure Management
Total Outsourcing Services
InsTIL – ITSM & Automation
Consulting & Integration





Thank you

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