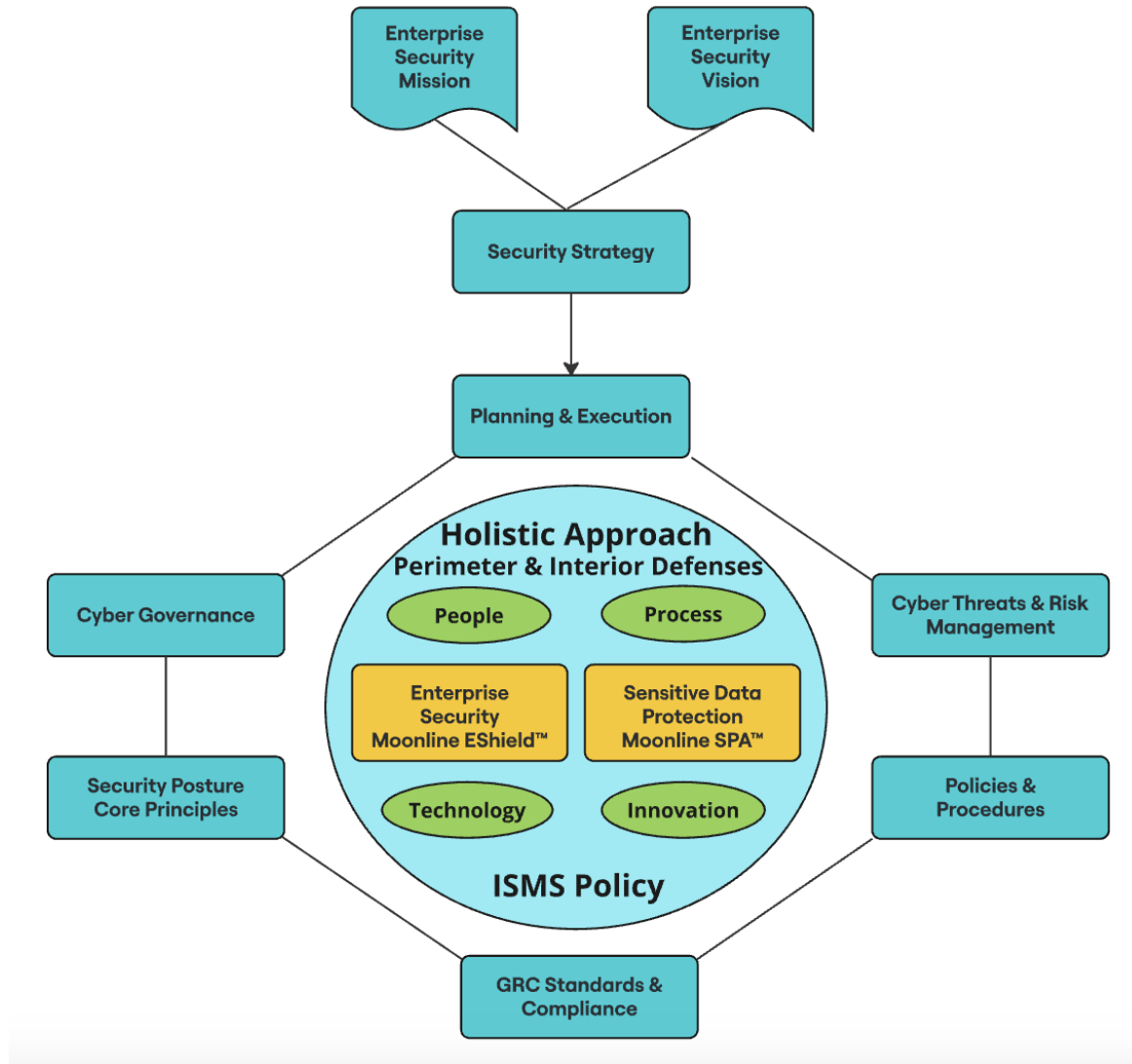


E-Shield™ Proactive Authenticator



Enterprise Cyber Journey

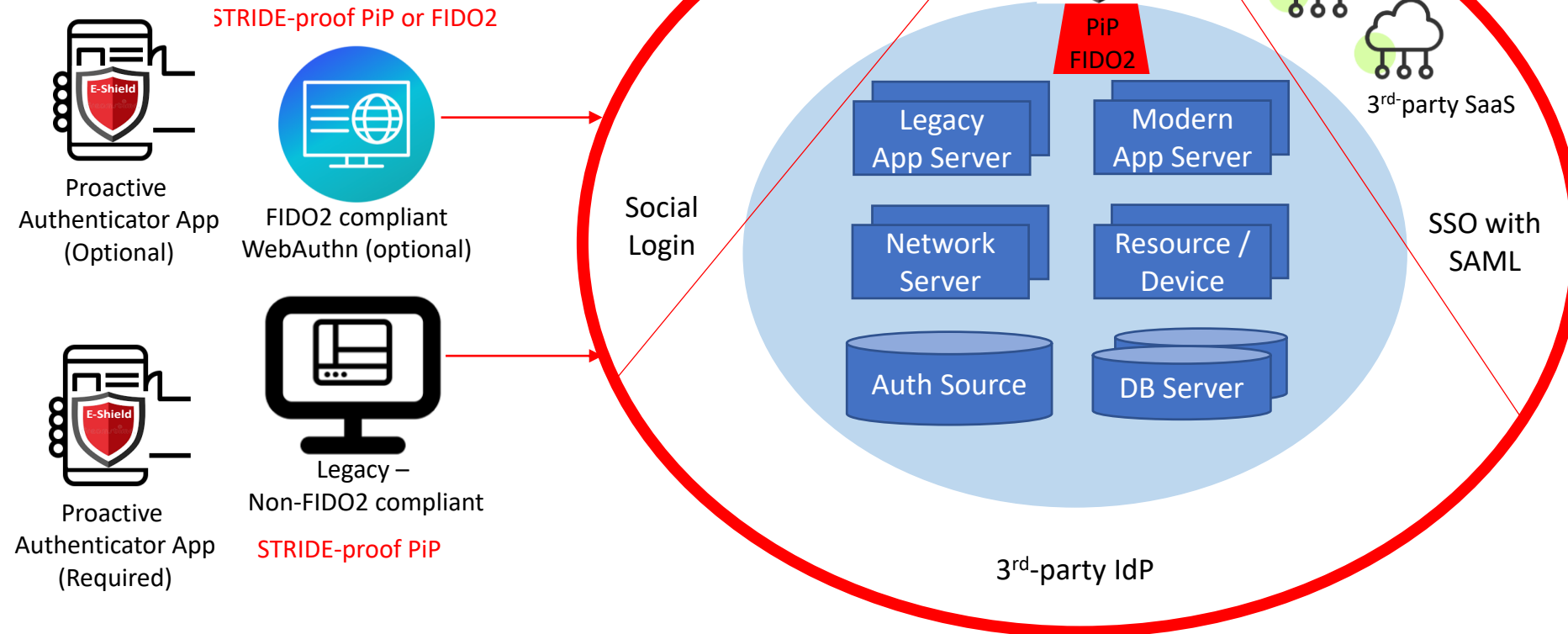


E-Shield™ Proactive Authenticator

- STRIDE-proof Proactive identity Protection (PiP™): **secure and practical** than 2FA, MFA, U2F, FIDO2
- Protect applications, tools, servers, databases, networks, resources with PiP and/or FIDO2
- Avoid phishing-prone 2FA, MFA. Supports both modern and legacy apps/platforms
- Zero-code, easy integration. Enhance protection on top of 3rd-party IdP solution
- White-label Authenticator, Custom IdP Implementation

Login Client Devices

(Relying Party apps, 3rd-party apps/tools)



Moonline™ EShield™ Enterprise Security
 Proactive identity Protection™
 Zero Trust
 Zero Code / Easy Integration
 STRIDE-proof, also supports FIDO2
 Detection and Response
 Numerous Impl Options
 High Interoperability
 Cost Effective Optimal Solution
 Compliance & Governance
 Impeccable Defense

Security Posture Security Policy Strategies

- P - Keep your Password
- KPX - KP Extended
- KPX2, KPX2' - KP Extended 2
- DP - Dynamic Password
- DPX - DP Extended
- DPX2, DPX2' - DP Extended 2
- PL - Password Less
- PLX - PL Extended
- PLX2', PLX2'' - PL Extended 2
- CA - Continuous Authentication
- CAX - CA Extended
- BTE - Blue Tooth Enabled
- More secure than FIDO2, U2F, CBA with PiP and Mobile Phone as Dongle

Security Posture Scope & Interoperability

- Shield internal or 3rd party IdP
- Shield Legacy Apps
- Shield Modern Apps
- Shield 3rd party SaaS Apps
- SSO with SAML
- Shield Social Login
- Shield App Servers and DB Servers
- Shield Network Resources
- Act as your Enterprise IdP

Main Features

- Proactive identity Protection (PiP™), a **more secure and practical** STRIDE-proof strategy than MFA, U2F, FIDO2. Pushing for PiP™ as a future standard.
- On-device authentication with WebAuthn (FIDO2) or authentication with E-Shield authenticator app (PiP™)
- Flexible proactive authenticator tied to one or more physical devices and available as mobile app or accessible from browsers
- Supports STRIDE-proof login with PiP™ while allowing various types of user experiences: password-less, with password, OTP, dynamic password
- Secures logins to modern and legacy applications, database and network servers, resources, and 3rd party-SaaS applications
- Works with all types of authentication sources and stores including Social Logins
- Integrates using zero-code or low-code based on selected options – through configuration, single-line code changes and minimal UI changes
- Works seamlessly with existing Enterprise Authentication Servers and IdPs

Benefits

- ✓ Enable more secure and practical STRIDE-proof authentication with no or minimal changes (optional) to applications and servers
- ✓ Support clients running on non-FIDO2 compliant devices
- ✓ Enable FIDO2 login to compliant applications and servers
- ✓ Avoid implementing and maintaining less secure, phishing-prone 2FA and MFA techniques based on SMS, phone, email and TOTPs
- ✓ Thwart or discourage DOS efforts on login accounts
- ✓ Ease enabling and rollout of FIDO2-level login security to legacy devices, clients and user logins
- ✓ Stop malicious actors right on their tracks – their logins using leaked but valid passwords fail right away
- ✓ Reduced reliance on smart phone or some costly device
- ✓ Simplify and reduce user anxiety with highly secure and flex-device logins
- ✓ Meet governance, risk, and compliance (GRC) requirements

Comparison with Others

Criteria	E-Shield Proactive Authenticator	Authenticator Apps (Duo, 2FAS, Okta, Microsoft, Google, Aegis)	FIDO2 Servers (HYPER, etc.)
Modern login devices with FIDO2 support	STRIDE-proof PiP, FIDO2	FIDO2, phishing-prone 2FA, MFA	FIDO2, phishing prone FIDO1 2FA, MFA
Legacy login devices without FIDO2 support	STRIDE-proof PiP	Phishing prone 2FA, MFA, TOTP	Phishing prone FIDO1 2FA, MFA
Requires a smart device?	Only for non-FIDO2 logins	Yes	Optional
Need Internet Connection?	App device (for STRIDE-proof PiP), login client machine (FIDO2)	Depends on the login option	Login client machine
Need user action in external app to login?	Yes - for STRIDE-proof PiP, No – for login client machine (FIDO2)	Yes – for phishing prone 2FA, MFA TOTP logins	Depends
Guard existing password-based?	Yes	Phishing prone 2FA, MFA, OTP	No
Dynamic password supported?	Yes	No	No
Password-less supported?	Yes (STRIDE-proof PiP, FIDO2)	Few, FIDO2 Only?	Yes
Enhance another IdP Solution	Yes	No	No
Application changes	Zero-code or minimal changes – depends on options selected	Yes	Yes
Protection Coverage	Impeccable, Very High	Medium to High	High
Thwart hacking and DOS attempts	Yes – in all cases	FIDO2 only	FIDO2 only

Contact

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E-Shield Authenticator Components

- E-Shield Admin Portal Deployment
 - ✓ On-premise
 - ✓ Cloud
- E-Shield Service Deployment
 - ✓ On-premise
 - ✓ Cloud
- External Authenticator, App-based (PiP™)
 - ✓ iOS
 - ✓ Android
- On-device Authenticator, Browser-based (FIDO2, WebAuthn)
 - ✓ Chrome
 - ✓ Safari
 - ✓ Edge
 - ✓ Mozilla