

## UAS End-to-End Encryption (E2EE) for Credential and Data Protection

E2EE creates a secured channel between the client's access device and Hardware Security Module (HSM). Within this channel, the Password is encrypted at the client's access device and can only be decrypted for verification by the HSM located in a physically secure location within the organization. In doing so, the password and other sensitive data can never be exposed, not even to the organization's applications and servers. The AccessMatrix™ Security Server and HSM work as an integrated solution to provide certified tamper-resistant vault.

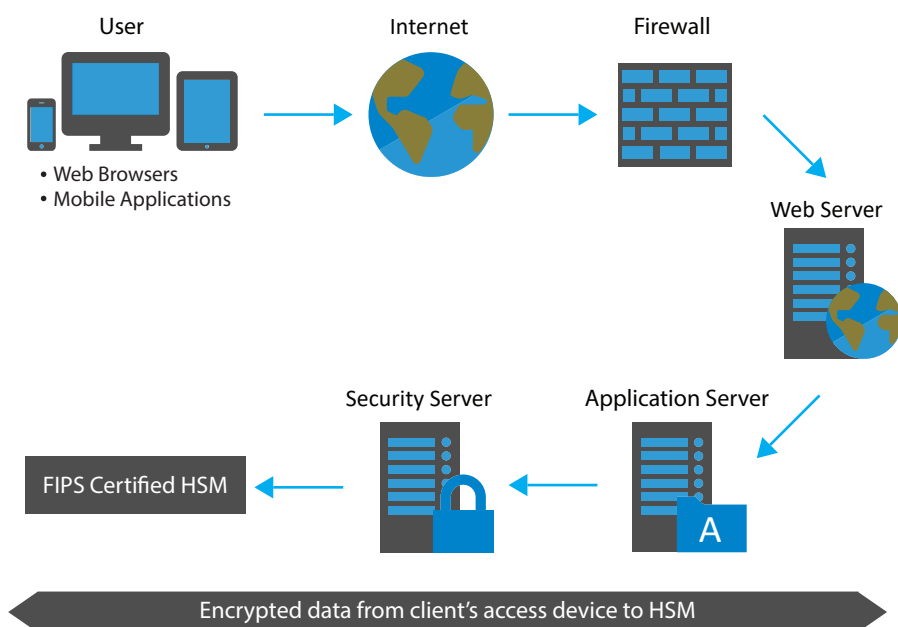
### Product Features:

The pre-integrated and tested E2EE solution comprising of AccessMatrix™ UAS and FIPS certified HSM devices can reduce integration complexity and shorten the time to deployment for E2E password protection for security sensitive applications. The solution provides the following proven features to address the E2E Protection requirements:

- Simple to use Security Services APIs for application integration and shields the complexity of HSM integration. Easy to deploy solution for credential encryption on the user's browser.
- Flexible Administration module for Fine-Grained administration delegation and user management.
- Comprehensive audit and reporting module will provide user-centric reporting capabilities to report access activities and security violations.

### Key Benefits:

- Prevent exposure of sensitive information and maintain confidentiality and integrity of transaction data
- Avoid potential security threats from internal and external hackers from within the network
- Enhanced security with flexible authentication and audit policy by supporting strong authentication methods and user-centric activity tracking
- Ensure compliance with powerful reporting capabilities to report user activities and security violations
- Provide 100% assurance that other than the trusted hardware for generating the PIN, nobody will know the user's password/ PIN, including middle tier servers like web servers



## System Requirements:

- Server OS: MS Windows 2019 and 2022, Red Hat Enterprise Linux 9.0
- Java Runtime: JRE 17 LTS
- Database for Policy Store: MS SQL Server, Oracle RDBMS and Oracle MySQL
- External User Store: Active Directory, LDAP v3 compliant directories and JDBC compatible databases
- FIPS Certified HSM, Cloud HSM
- Mobile Platforms Supported: iOS, Android

- Add-on Module for E2E of ATM PIN in transit from Web Channel and translation of ATM PIN based on ISO9564 format for integration compatible with existing infrastructure.
- Encryption libraries for popular mobile platforms like iOS and Android.
- Proven HSM interface with leading brands of HSM devices. E2EE creates a secured channel between the client's access device and Hardware Security Module (HSM). AccessMatrix™ Security Server and HSM work as an integrated solution to provide a certified tamper-resistant vault.
- Although E2EE with HSM is recommended, for deployment where HSM is not available, UAS has software E2EE solution where password is encrypted end-to-end from client device to UAS and verification is done in UAS.
- Customizable Paper and E-Pin Mailer interface for mail merge and secure printing of PIN mailer.
- Extensible authentication module to include other authentication mechanisms like certificates, mobile and hardware OTP tokens, smartcards, biometric devices, etc as and when the need arises without any major changes to the code.
- Proven scalability and reliability features to meet the most stringent service level and operational requirements for large scale deployments.

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