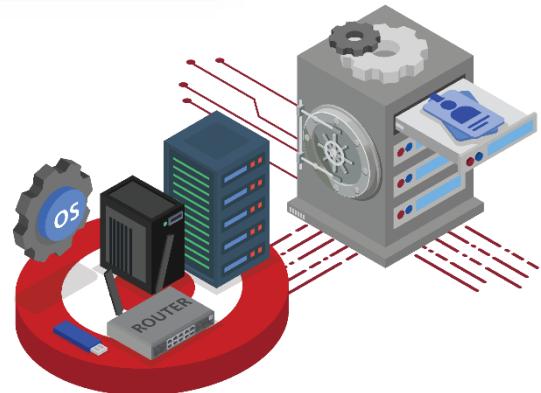




## Privileged Access & Account Management

AccessMatrix™ Universal Credential Manager (UCM) provides a virtual password safe deposit box protected by **post-quantum safe encryption** (via advanced ML-KEM) and optional **HSM** devices, securely storing privileged account IDs and passwords (aka credentials), safeguarding privileged access against emerging quantum threats. UCM delivers robust security features to address the key audit and operational challenges organizations face in managing credentials and session activities.



### Key Features



#### Post-Quantum Secure Login

Provides post-quantum secure login with ML-KEM encryption, safeguarding privileged access against emerging quantum threats.



#### Interactive Session

On-demand password management Privileged User IDs, ensuring immediate retrieval of credentials during emergency or operational requirements for robust security and rapid response.



#### Programmatic Access

Prevent the security exposure of hard coding ID and password (functional ID) in application component for accessing databases and any other resources.



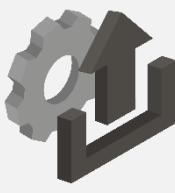
#### Extendable to Support New Target Systems



#### Session Recording & Command Filtering for Auditing



#### Secure & Scalable with High Availability Options



#### Ease of Deployment & Flexibility

# AccessMatrix™ Universal Credential Manager

## Privileged User Access (PUA) Module

UCM provides a secure approach with multi-level approval flow and empowers organizations to manage security administrators to retrieve and deposit privileged credentials. This enables authorized users to check-in and check-out privileged credentials to perform their duties or during emergency situations.

## Privileged Session Manager (PSM) Module

Add-on Windows RDP Gateway Recorder to monitor and record privileged sessions. It supports video recording playback for forensic analysis. It also supports commands access control for selected protocols

## Application Password Manager (APM) Module

Enables organizations to retrieve user IDs and passwords for specific applications during run time so that the user credential information does not need to be hard-coded in applications or command files.

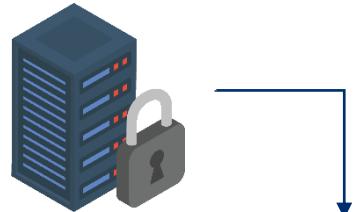
### User Directories



### HSM



### Policy Store & Password Vault



### Privileged User Access (PUA) via Web-Based Self-Service Portal

#### Requesters      Approver(s)



- Business User
- R&D Developer
- 3<sup>rd</sup> Party Software Vendor
- Outsource Support
- IT Administrator
- Custodian

#### Privileged Users

### Privileged Session Manager (PSM)



PSM proxy server for Telnet, SSH, 5250 & 3270

Command Filtering & Secure Access



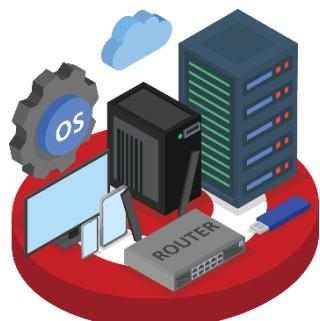
PSM Gateway Server

Visual Recording & Log Generation



Audit Log Review

### Target Resources



- VMware
- Citrix
- Unix
- Windows
- DB Server
- MF Host
- AS/400
- Network Device
- Proprietary Systems & Applications

End-to-End Privileged Account Activity Management

## Core Functions



### Policy Driven Approach

Automatically enforces enterprise-wide security policies for passwords, authentication, and access restrictions, ensuring consistent policy application across the organization base on the defined security policy.



### Auto Account Discovery

Provide automatic account discovery report and notify administrators of new accounts not managed by UCM



### Workflow Approval

Provides a built-in workflow for secure credential retrieval, and tracking credential usage in performing password reset. Supports multiple workflow types, including multi-level approval, after-hours access, and manager-subordinate workflows, to suit various organizational needs.



### Dynamic Tag by Target Resource Type and Credentials

Support tagging of credentials for ease of management and retrieval of credentials and target resources.



### Password Consumers & Flexible APIs

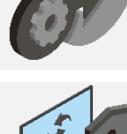
Enables organizations to have quick deployment to address the password challenges with APIs and password consumers for dynamic replacement of IDs / password parameters



### Web-Based Self-Service Portal

Web portal that enables request submission, check in, check out and approval functionalities with role-based access control

## Comprehensive PAAM Features

-  Build-in workflows for office hours / non-office hours or integrate with external ticketing system
-  Workflow-driven credentials Check-in / Check-out with auto password update on check-in
-  Tagging credential (privileged passwords) e.g by project, UAT, production, OS
-  Bulk Import (CSV import) and Break Glass (backup PDF versioning)
-  Use encryption key, security policies from Safe with optional HSM protection
-  Support various authentication options
-  SSO to target resource with session video recording
-  Agent & Agentless integration with databases, Unix, Windows, routers, firewalls
-  Native Integration to existing Enterprise user store or target resource data store
-  Secure access and seamless connection from any location on any device (desktop, laptop, mobile)

## System Requirements

**UCM Server / UCM Gateway:**  
MS Windows 2019 and 2022, RedHat Enterprise Linux 9.x

**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

**Support Target Resources:**  
JDBC database servers, UNIX Servers, Window Servers, Active Directory, AS400, IBM RACF Mainframe, Cisco / Array, Cisco ACS, Scriptable SSH / Telnet-based network devices e.g TopSec, Juniper, Huawei, H3C and RuiJie, http, https, Z/OS, Weblogic, Websphere and Webportal

**Supported clients for UCM Gateway:**  
Database clients, VNC, rdp, web-based consoles, PuTTY, Tera Term, secureCRT and CuteFTP, WinSCP, SSH Secure File Transfer, IBM Data Studio, Pcomm, Exceed, vSphere Client

### Global Headquarters

Blk 750D Chai Chee Road #08-01  
ESR BizPark@Chai Chee (Lobby 1)  
Singapore 469004  
📞 +65 6244 3900  
✉️ [enquiry@i-sprint.com](mailto:enquiry@i-sprint.com)

For a complete list of our offices in Hong Kong, Japan, Malaysia, Thailand & United States, please visit [www.i-sprint.com/contactus](http://www.i-sprint.com/contactus)

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