V-Key Smart Authenticator

The One Authenticator
To Rule Them All

V-KEY
STRONGER WITH V-OS

The Only Authenticator You Need For All Your Apps, VPNs and Enterprise Systems

Built on the globally patented V-OS Virtual Secure Element, the V-Key Smart Authenticator provides a cloud-based MFA solution for Android and iOS. Trusted by banks and super-apps, and built to support multiple productivity platforms, customize the Authenticator for your business brand. Find out why customers trust V-Key to secure Digital Identity on mobile and beyond.

# Provide Enterprise Grade Multi-Factor Authentication in 3 EASY STEPS

Businesses, like relationships, are built on trust. Are your employees working remotely? Do you have a large number of users who need to access your app or system? With organizations moving towards Multi-Factor Authentication, a simple password is just not enough. National Institute of Standards and Technology (NIST) deprecated SMS OTP many years ago as they are vulnerable to interception and phishing attacks. Hardware tokens are expensive to deploy, can get lost or stolen, are not user-friendly, and require regular replacement. Turn your phone into a hardware token with the V-Key Smart Authenticator with industry-strength Multi-Factor Authentication that is tailored to scale for small and medium-sized businesses.
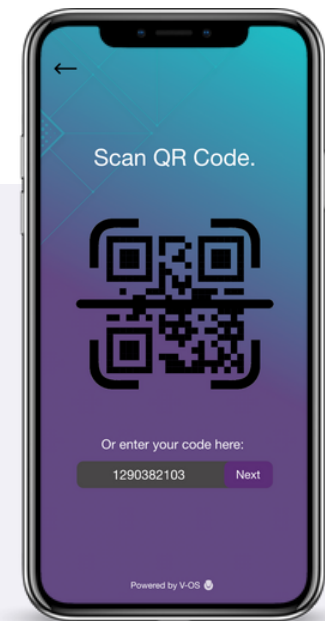
One Authenticator To Rule Them All

Connect to your Enterprise and Cloud Services

Download the Authenticator App
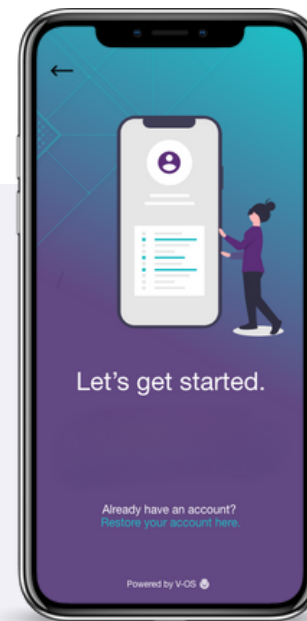
Follow the steps to set-up your account

Verify your identity and access your account

The V-Key Smart Authenticator is an integral part of V-Key's Smart Token product family.

FEATURES / FUNCTIONALITY	V-KEY SMART AUTHENTICATOR	MOST AUTHENTICATORS
Built in App Protection	✓	✗
Threat Intelligence Dashboard	✓	✗
Enterprise Grade Solution	✓	✗
24x7 Support with defined SLA's	✓	Community Support Only
Customizable UI	✓	✗
Able to operate in rooted/jailbroken devices	✓	✗

ONE-TAP LOGIN

Seamless and Secure authentication with just one-tap

SECURITY

Enjoy ultimate security and peace of mind with our patented V-OS technology

ONE APP FOR ALL

One single authenticator for all your applications and software

INSTANT BACKUP AND RESTORE

2FA data backup in the Cloud. Easily restore your data when you switch to a new phone

V-KEY

V-Key MFA for Windows Logon

V-Key MFA for Windows Logon, an extension of V-Key Smart Authenticator, is designed to enhance security on Windows devices by integrating Multi-Factor Authentication (MFA) into the logon process. It ensures that only authorized individuals can access critical resources while also safeguarding desktop applications and processes. This solution delivers a secure and seamless logon experience for Windows users, reinforcing the overall security framework.

V-Key MFA for Windows Logon eliminates the reliance on passwords for accessing devices and beyond. It uses Public Key Infrastructure-based (PKI) push notifications to authenticate users, and introduces a one-time PIN (OTP) fallback for offline cases. Privacy-preserving biometrics is used for seamless identity portability to new devices. These features strengthen enterprise security and improve the user experience by reducing friction during authentication.

Features:

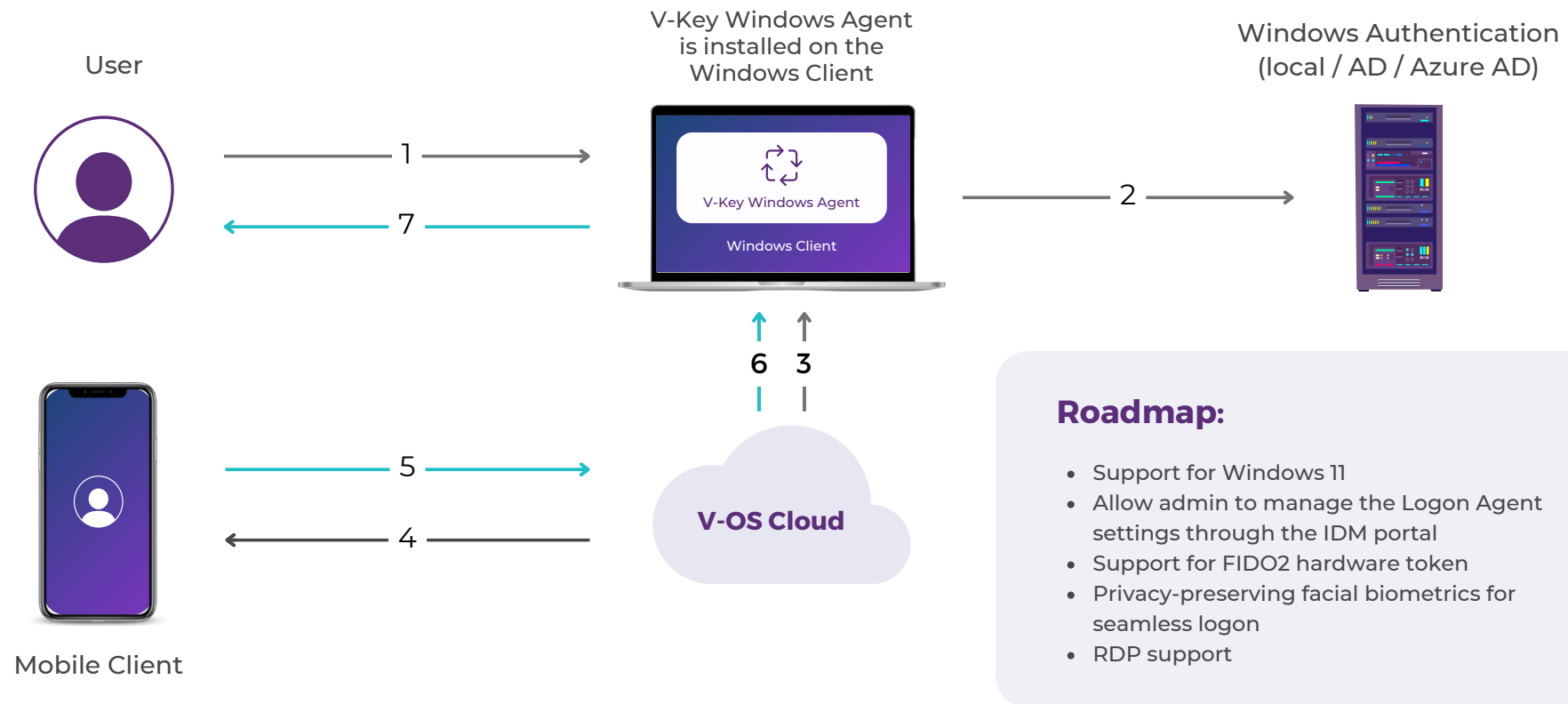| Easy-to-use installer to setup on Windows machines | Integrated dashboard for admin to manage users and MFA access | Privacy-preserving facial biometrics for seamless identity portability to new devices | PKI (online) and OTP (offline) authentication methods | Supports LDAP - Windows Active Directory and Azure Active Directory |

How MFA for Windows Logon works

User

V-Key Windows Agent is installed on the Windows Client

Windows Authentication (local / AD / Azure AD)

1

7

2

V-Key Windows Agent

Windows Client

6 3

V-OS Cloud

5

4

Mobile Client

Roadmap:

- Support for Windows 11
- Allow admin to manage the Logon Agent settings through the IDM portal
- Support for FIDO2 hardware token
- Privacy-preserving facial biometrics for seamless logon
- RDP support

1. **User Login Request:** The user initiates the login process.
2. **Credential Input:**
   - *Enable "Remember Me" Option:* The user enters their password only during the first login.
   - *Disable "Remember Me" Option:* The user is prompted to enter their password for every login.
3. **Authentication Request:** V-Key's Windows Logon Credential Provider sends an authentication request to the V-Key server via TCP port 443 (HTTPS).
4. **Push Notification:** The V-OS Cloud promptly sends a push notification to the user's mobile device.
5. **User Response:** The user approves the request on their mobile device, sending a response to the V-Key server.
6. **Verification Complete:** V-Key's Windows Logon Credential Provider receives the authentication response.
7. **Access Granted:** The user's Windows session is securely logged on.
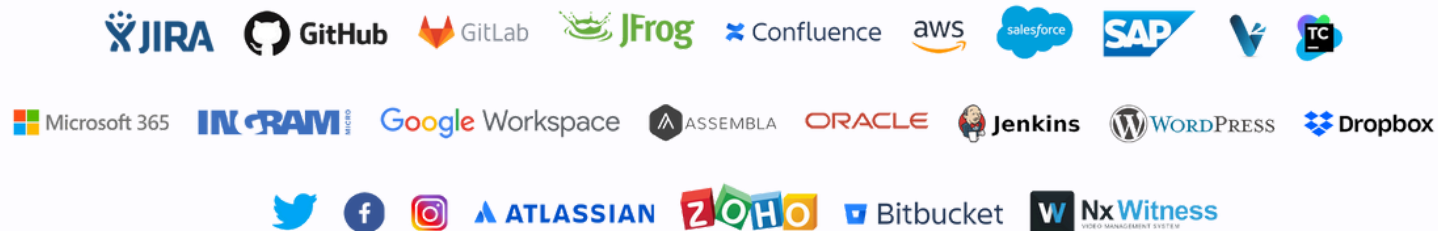
V-KEY

CONNECTORS & PROTOCOLS

SAML provides a single, unified digital identity across every application and website. Centralized authentication assures IT admins of a single point of contact for all

RADIUS minimises the chances of hackers accessing an organisation's data through networks (e.g WiFi) as it provides unique credentials for individual users.

OIDC puts personal information under user control instead of by a service provider or other third party. Users can determine how personal info to share with other websites that use OIDC.

SELECTED APPLICATIONS

JIRA GitHub GitLab JFrog Confluence aws salesforce SAP

Microsoft 365 INGRAM MICRO Google Workspace ASSEMBLA ORACLE Jenkins WORDPRESS Dropbox

Twitter Facebook Instagram ATLASSIAN ZOHO Bitbucket Nx Witness VIDEO MANAGEMENT SYSTEM

SELECTED VPNs

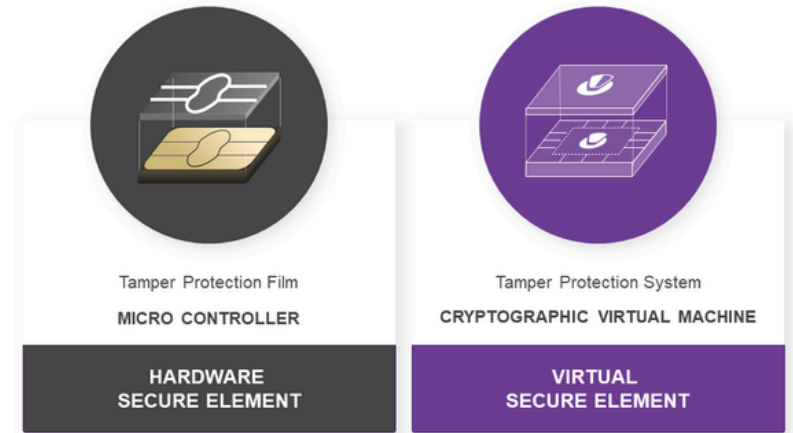SOPHOS SONICWALL OPENVPN CISCO Meraki FORTINET

What We Do:

V-Key is a software-based digital security company whose technology powers security solutions that deliver the highest level of defense and control for digital identity, user authentication, access and authorization -- without compromising the user experience. It is trusted by government, banking, and mega-app clients across the region to connect people, organizations, and devices everywhere by securing the global digital economy .

Our Mission:

To provide a secure Universal Digital Identity to power trusted digital services globally.

V-Key provides trusted, reliable, and secure Digital ID services that enable people to truly and safely participate in the modern economy.

Tamper Protection Film
MICRO CONTROLLER
HARDWARE SECURE ELEMENT

Tamper Protection System
CRYPTOGRAPHIC VIRTUAL MACHINE
VIRTUAL SECURE ELEMENT

THE V-OS VIRTUAL SECURE ELEMENT

At the heart of V-Key's product suite is V-OS, the world's first Virtual Secure Element to be FIPS 140-2 (US NIST), Common Criteria EAL3+, and SOC 2 certified. It has also been accredited by the Infocomm Media Development Authority of Singapore (IMDA). V-OS creates an isolated virtual environment within mobile applications to safely store cryptographic keys and other important information.

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FOR MORE INFO ON V-KEY SMART AUTHENTICATOR

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