

# Key and Certificate Management and Protection for the Modern Enterprise

## Venafi Trust Protection Platform

### At-a-Glance

Venafi Trust Protection Platform manages, secures and protects keys and certificates, delivering an enterprise-grade platform that provides enterprise-wide security, operational efficiency and organizational compliance.

### Benefits

- Security risk posture awareness
- Vulnerability identification and remediation
- Simplified key and certificate management
- Improved operational efficiencies
- Accelerated risk mitigation
- Audit responsiveness

“ Venafi is a very reputable company with a unique product offering that solves significant operational and security use cases. [We're faced with] the emerging realization that certificate and key management is the next battleground for privileged access.”

Chief Information Security Officer,  
Large Chain Retailer

Source: TechValidate TVID: 521-843-BE2

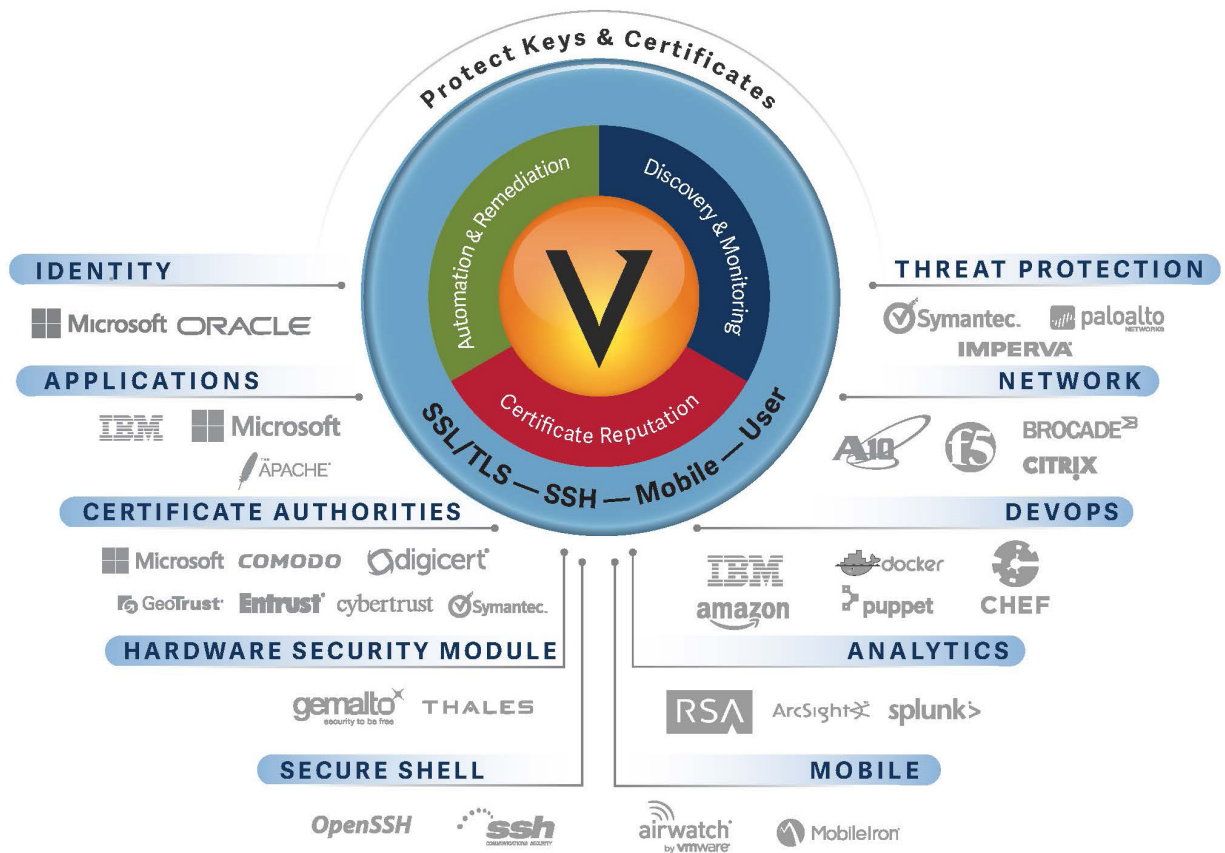
Venafi secures and protects the cryptographic keys and digital certificates that all organizations rely on to keep communications between machines secure and private. Keys and certificates are designed to solve the original Internet security problem—accurately identifying servers and browsers so they can safely communicate back and forth independently.

Businesses spend over \$7 billion each year on identity and access management.<sup>1</sup> Much of this is spent on protecting user names and passwords, but almost none of it goes towards protecting keys and certificates.

People rely on user names and passwords to identify themselves and gain access to systems, applications and devices, but machines do not. They use digital keys and certificates for machine-to-machine authentication and communication.

Keys and certificates are the foundation of security, used to uniquely identify and create trusted relationships between devices and systems. They create private communication tunnels using encryption that keep digital communications across computer networks safe. Certificates and their corresponding keys control access to information in these private tunnels. The global digital economy relies on encrypted tunnels to keep digital communications and transactions secure and private.

1. MarketsandMarkets.com. Identity and Access Management Market by Component (Provisioning, Directory Services, Password Management, SSO, & Audit, Compliance, and Governance), by Organization Size, by Deployment, by Vertical, and by Region - Global Forecast to 2020. March 2016.



Cybercriminals know most organizations have encryption tunnel blind spots so they target keys and certificates to use in their attacks. When cybercriminals gain access to stolen or forged keys and certificates, they gain the universally trusted status these digital assets provide. This allows them to break into private, encrypted tunnels where they can eavesdrop on communications.

In addition, cybercriminals can also use keys and certificates to create their own encrypted tunnels in corporate networks to get malware in and sensitive data out.

Without enterprise-wide visibility of all keys and certificates, dangerous private tunnels that contain malicious traffic can get lost among the numerous tunnels that contain the good traffic that support everyday business.

**Enterprise-wide Security**

Venafi Trust Protection Platform provides enterprise-wide visibility of all keys and certificates across the hybrid enterprise. With full situational awareness of cryptographic security risk posture at all times, businesses are able to automate the identification of

weak certificates, such as SHA-1, MD5 or wildcards. With full visibility into key and certificate risks, Venafi enables quick response with automated remediation.

**Operational Optimization**

As a centralized certificate management platform, Venafi Trust Protection Platform can tame even the most complex cryptographic environments. With hundreds of native third-party applications and Certificate Authority (CA) integrations, organizations can fully automate the lifecycle of all keys and certificates. This improves operational efficiencies, availability and reliability of critical infrastructure, and reduces administrative costs.

**Organizational Compliance**

Venafi Trust Protection Platform helps ensure your key and certificate environment remains compliant and audit-ready. With intuitive dashboards and proactive notifications, administrators can quickly validate that compliance requirements are being met. When this is combined with the ability to automate policy enforcement, organizations can accelerate audit responsiveness, including flexible reporting and auditing capabilities.

## Venafi Trust Protection Platform Manages, Secures and Protects These Digital Assets:

- **SSL/TLS certificates and keys** - Secure communications across local networks and the Internet
- **SSH keys** - Secure privileged access to remote systems
- **Mobile and user certificates** – Secure communications with mobile devices and remote access

## Venafi Trust Protection Platform

### • Venafi TrustAuthority: Discovery & Monitoring

Find, continually monitor and enforce policies for all SSL/TLS keys and certificates, SSH keys, and mobile, WiFi and VPN certificates, including those issued by any Certificate Authority (CA). This enables the detection and remediation of anomalies to protect these vital cryptographic assets.

### • Venafi TrustForce: Automation & Remediation

Speed and scale deployments of encryption-dependent applications with automation and validation of the complete certificate issuance and renewal process. Automation also improves security and remediation, replacing certificates in seconds or remediating across thousands of certificates in just hours in the event of a CA compromise or new vulnerability.

### • Venafi TrustNet: Certificate Reputation

Identify rogue key and certificate usage across the Internet with this global certificate reputation service, flagging certificates used to spoof or impersonate websites of reputable businesses. Organizations can use this certificate reputation intelligence to whitelist good certificates and blacklist ones that should not be trusted.

## Next Steps

To learn more about how Venafi Trust Protection Platform can provide enterprise-wide security, increased operational efficiencies and organizational compliance, visit [www.venafi.com](http://www.venafi.com) or contact us at [www.venafi.com/contact-us](http://www.venafi.com/contact-us)

“ Venafi helped us automate a very complex task in a reliable way. Venafi is basically the only player in the market, serving a very real need.”

Engineering Director,  
Global 500 Banking Company

Source: TechValidate TVID: 17B-396-F9B

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**4 OF 5** Top U.K. Banks

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**3 OF 5** Top AU Banks

## ABOUT VENAFI

Venafi is the cyber security market leader in protecting cryptographic keys and digital certificates which every business and government depends on to deliver safe encryption, authentication and authorization. Organizations use Venafi key and certificate security to protect communications, commerce, critical systems and data, and mobile and user access.

To learn more, visit [www.venafi.com](http://www.venafi.com)

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