NETWORK SECURITY SOLUTIONS – SSL VPN AND REMOTE ACCESS

Aladdin and Juniper Networks Enable Strong Authentication for SSL VPN Solutions

Challenge
Enterprises strive to enable their employees reliable access to corporate resources to ensure maximum productivity; Hence, deploying a flexible, secure, and scalable solution for strong user authentication and remote VPN access is a key competitive advantage to enable continuous business operation.

Solution
Aladdin and Juniper Networks offer a powerful, flexible access solution suite for enterprise and SMBs looking for trusted access for employees, customers, suppliers and partners, and for interoperability among different remote access control technologies.

Benefits
- Safe business operation – secure remote access to sensitive corporate data
- Increase productivity – users take their digital credentials wherever they go
- Cost saving – flexible access and authentication methods, lifecycle device management with eToken TMS
- Regulatory compliance – full compliance with industry regulations; SOX, HIPAA, SAFE, and PCI

Today’s heightened security challenges require businesses to provide a secure and productive work environment for their employees who are working remotely now more than ever before. This adds significant layers of complexity to the IT environment.

The Juniper Networks and Aladdin eToken Solution
The Aladdin eToken solution for Juniper Networks® SA Series SSL VPN Appliances deliver strong, two-factor user authentication to enable secure remote access to corporate network and resources. This offering enables the establishment of trusted compliance-based access for employees, customers, suppliers and partners by providing interoperability among different remote access control technologies.

Using Aladdin eToken PRO, a full two-factor authentication method can easily be implemented from any computer that runs the Juniper SSL VPN client via Microsoft’s CAPI interface when communicating with Juniper Networks SA2000, SA4000, and SA6000 SSL VPN Appliances. In addition, users can leverage Aladdin eToken One Time Password (OTP) solutions to enable OTP and username credentials authentication to the Juniper SSL VPN Client.

The eToken solutions-set is integrated with Aladdin’s powerful Token Management System (TMS) for enterprise-class full life cycle device management.

VPN Client and SSL VPN Defined
Juniper Networks SA2000, SA4000, and SA6000 SSL VPN Appliances meet the needs of companies of all sizes. SA Series appliances are based on Juniper Networks Instant Virtual Extranet (IVE) platform, which uses SSL VPN, the security protocol found in all standard Web browsers. The use of SSL VPN eliminates the need for pre-installed client software deployment, changes to internal servers, and costly ongoing maintenance and desktop support. Juniper’s SA Series appliances also offer sophisticated partner/customer extranet features that enable controlled access to differentiated users and groups with no infrastructure changes, no DMZ deployments, and no software agents.

Juniper Networks Core Clientless Access’ SSL VPN functionality is based on the Content Intermediation Engine (CIE) and transforms incoming requests from SSL/HTTPS to the native resource’s protocol, then transforms and renders the outgoing request fulfillment. The entire process is dynamic and automatic, and features context-sensitive transformation. This enables Core Clientless Access to seamlessly handle Web-based enterprise applications, Java applications, file shares, access to terminal hosts, as well as XML and Flash-based applications without a client and without a proxy download.
The SSL VPN appliance intercepts the Web communication, establishes the secured tunnel, and enforces any access policy designed by the organization. With Juniper Networks Core Clientless Access’ SSL VPN application, data is encrypted before it leaves the client computer, offering a highly secure solution for roaming users.

**eToken TMS Token Management System**

The Aladdin Token Management System (TMS) is a robust management system that enables the deployment, provisioning and maintenance of all eToken devices, smart cards and ID badges within an organization. It supports a comprehensive range of security applications such as network logon, SSL VPN, Web access, one-time password authentication, secure email and data encryption. TMS capabilities include token deployment and revocation, Web-based user self-service token enrollment and password reset, automatic backup and restore of user credentials, handling of lost and damaged tokens, and much more.

**Solution Features**

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<thead>
<tr>
<th>ALADDIN ETOKEN</th>
<th>JUNIPER NETWORKS SSL VPN CLIENT</th>
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<tbody>
<tr>
<td>eToken PRO, eToken NG-Flash, eToken NG-OTP</td>
<td>Juniper Networks SSL VPN</td>
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<tr>
<td>• Secure storage of private credentials</td>
<td>• Securely connects SSL VPN clients to Juniper Networks SA Series SSL VPN Appliances</td>
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<tr>
<td>• RSA 2048 / 3-DES / SHA-1, (Onboard RSA 1024/2048 operations)</td>
<td>• Clientless Core Access to on-line applications, email, file-share and terminal service solutions</td>
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<tr>
<td>• Strong two-factor authentication</td>
<td>• Support multiple authentication methods such as digital certificates or OTP (via Juniper Networks SBR Series Steel-Belted Radius Servers)</td>
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<td>• One-time-password authentication</td>
<td>• Active directory integration</td>
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<td>• Standard USB and card reader connectivity</td>
<td>• X.509 open authentication architecture</td>
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<td>• Standard Connectivity to Multiple Business Applications (CAPI, PKCS#11)</td>
<td>• FIPS 140-2 certified</td>
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<td>• FIPS 140-2 Level 2/3 (and future FIPS 201)</td>
<td>• Optimized for Windows XP/2000, Vista</td>
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<tr>
<td>• Secure data and file encryption on eToken NG-Flash</td>
<td>• Supports Juniper Networks SA2000, SA4000, and SA6000 SSL VPN Appliances</td>
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Solution Components

Aladdin
- eToken PRO (USB and smartcard form factors)
- eToken NG-OTP
- eToken NG-Flash
- eToken PKI Driver – for eToken to communicate with the PC
- eToken SSO – for password management
- eToken TMS – for card and token lifecycle management

Juniper Networks
- SA2000
- SA4000
- SA6000

Summary: Aladdin eToken and Juniper Networks SSL VPN—Enable Secure, Continuous Business Operation

Reliably authenticating users before they can gain access to the organization’s digital resources is critical for successful continuous business operation. When only authorized users – whether they are employees, business partners, or customers – can access your network and data, users gain efficient and secure connectivity for online business services, which previously were not supported.

Aladdin eToken enables strong user authentication when remotely accessing the corporate network, offering seamless integration with Juniper Networks SSL VPN solutions; eToken supports multiple SSL VPN authentication methods including one-time passwords and digital certificates.

Next Steps

For more information about the Aladdin eToken and Juniper Networks SSL VPN solution for strong authentication and remote access, please see www.aladdin.com/contact or www.juniper.net.

About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at www.juniper.net.

About Aladdin

Serving more than 30,000 customers worldwide, Aladdin products include: eToken™, the world’s #1 USB-based authentication solution; the eSafe® secure Web gateway, providing the most advanced protection against the latest Web-based threats and attacks; and HASP®, the #1 choice of software developers and publishers to protect Intellectual Property, increase revenues, and reduce losses from software piracy. Aladdin has offices in 14 international locations, a worldwide network of channel partners, and has won numerous awards for innovation. Additional information can be found at www.aladdin.com.