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Check Point and Aryaka
Global SD-WAN with Next Generation Security

Solution Brief

The Challenge

With more than half of all enterprise WAN traffic moving to and from the cloud, global businesses are moving away from legacy architectures like MPLS to SD-WAN technologies. Typically, internet traffic was backhauled across the WAN to centralized firewalls to maintain security. However, in today's cloud-centric context, ensuring application performance over such a backhauled setup becomes a challenge. In addition, security is not scalable when the organization has globally distributed users and locations.

Enterprises require a cloud-native SD-WAN platform that integrates private connectivity, application acceleration and security without adding network complexity and costs.

Aryaka's Global SD-WAN

Aryaka's Global SD-WAN enables enterprises with fast global connectivity along with accelerated access to mission and business critical applications. Aryaka uses a global private network with built-in optimization and security capabilities that include a multi-layer security approach with a global private core network, fortified security on the PoPs, end-to-end encrypted tunnels, and stateful firewalls.

Unlike legacy connectivity solutions that take months to deploy, Aryaka's Global SD-WAN can be deployed within days. It is delivered as a service, so IT organizations can consume global networking services the way they would consume SaaS applications like Salesforce and Infrastructure-as-a-Service solutions like Amazon Web Services and Microsoft Azure.

Key Benefits:

Accelerated Application Access:

Enable fast high-performance access to mission & business-critical applications hosted locally or in the cloud.

Advanced Security:

Secure all enterprise and web traffic using comprehensive security, threat intelligence, visibility, and control.

Network Visibility:

Deliver complete visibility into application usage and performance over both the Aryaka and Check Point services.
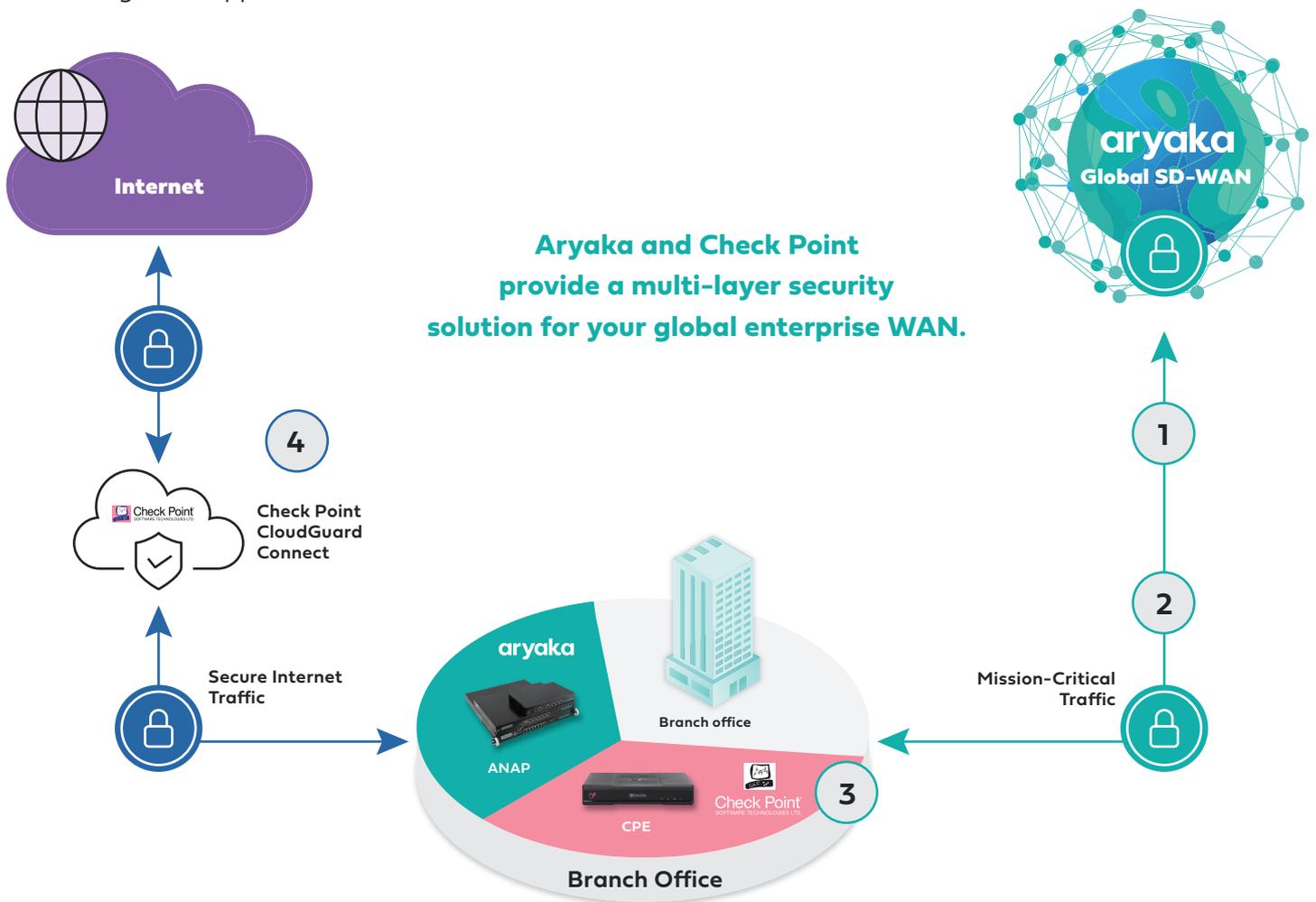
Check Point + Aryaka

Check Point and Aryaka seamlessly integrate to deliver a joint solution of enterprise-grade security with a cloud-first Global SD-WAN that offer superior connectivity, WAN Optimization, and application acceleration capabilities.

Aryaka's SmartConnect delivers SLA-based reliable global connectivity and significantly faster application performance for enterprises, and Check Point adds a layer of advanced security controls needed for web and cloud-bound traffic.

The Aryaka Edge device (ANAP) can seamlessly forward all internet- and cloud-bound traffic directly to the Check Point CloudGuard Connect Edge cloud service or the Check Point CloudGuard Edge next-generation on-premises firewall.

Together, Aryaka and Check Point deliver a best-of-breed SD-WAN and security platform for enterprises accessing mission-critical internally hosted applications as well as those going directly to the internet for accessing cloud applications.

Aryaka and Check Point provide a multi-layer security solution for your global enterprise WAN.

Internet

4

Check Point CloudGuard Connect

Secure Internet Traffic

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Global SD-WAN

1

2

Mission-Critical Traffic

3

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ANAP

CPE

Check Point

Branch office

Branch Office

Aryaka and Check Point Seven Layers of Global Enterprise Security

1. Global Private Network

2. Multi-Path Encryption

3. Check Point CloudGuard Edge Next-Generation Firewall VM or Check Point physical appliance

4. Check Point CloudGuard Connect

Use case #1

Security for the distributed enterprise: **Aryaka Global SD-WAN and Check Point CloudGuard Connect cloud service**

Challenge: Enterprises are increasingly leveraging direct internet breakouts at remote locations to provide optimal and scalable connectivity for the purposes of guest Wi-Fi or SaaS applications. This approach provides the best overall user experience, but it also creates challenges when securing an increased number of internet access points and maintaining compliance with the organization's security policies.

Solution: The Aryaka Edge device and its native Zones Firewall capability seamlessly forwards all internet and cloud bound traffic directly to the CheckPoint CloudGuard Connect cloud service. Check Point's security platform has highly differentiated cyberthreat prevention capabilities.

Aryaka offers a global private network with built-in optimization and security capabilities that include a multi-layer security approach with a global private core network, fortified security on the PoPs, end-to-end encrypted tunnels, and stateful firewalls.

Together, this ensures that all enterprise, web and cloud traffic obtain enterprise-grade security, irrespective of whether they are going to the Aryaka global SD-WAN or to the public internet.

Benefits: The combined solution does not require additional on-premises hardware, appliances or software and is easy and cost-effective to deploy and manage.

Use case #2

NGFW as a Virtual Network Function: **Aryaka Global SD-WAN and Check Point CloudGuard Edge**

Challenge: Connecting branches directly to the cloud significantly increases security risks. Branches need to protect themselves against sophisticated Gen V cyber attacks.

Solution: With Aryaka SmartConnect, branch offices obtain secure and accelerated connectivity to any cloud service.

CloudGuard Edge protects branch offices on-premise with top-rated threat prevention, that can be deployed in minutes, and be managed by a unified threat prevention and access platform. Check Point CloudGuard Edge is a virtualized form factor of a next-generation firewall and CloudGuard Edge runs as a lightweight virtual machine (VM) on Aryaka's ANAP CPE.

Benefits: The combination of Aryaka's Cloud-First WAN and Check Point CloudGuard Edge offers top-rated threat prevention with a 100% cyber attack catch rate. It can be deployed within five minutes to protect SD-WAN deployments on the cloud or on-premises. Finally, its unified security architecture reduces OpEx costs up to 40% and CapEx by 20%.

Use case #3

Secure branch office: **Aryaka Global SD-WAN and Check Point next-generation firewall**

Challenge: Enable direct and secure hand-off of internet traffic from the branch.

Solution: Using advanced routing policies, the Aryaka Edge Device (ANAP) automatically forwards all public internet traffic to a co-located Check Point Next-Generation Firewall appliance.

Benefits: By eliminating the backhaul of public internet traffic, direct hand-off conserves WAN bandwidth and expense, and improves application performance and SLAs to deliver a superior edge-to-edge user experience. The Aryaka Edge Device includes built-in capabilities of a router, dynamic path control and WAN optimization in a single integrated solution. Co-location of the physical firewall at the branch enables secure hosting of services from the branch firewall.

Use case #4

Accelerated access to IaaS solutions: **Aryaka Global SD-WAN and Check Point CloudGuard IaaS**

Challenge: Organizations are moving data center workloads to IaaS providers like Amazon Web Services, Microsoft Azure, Google Cloud or Alibaba Cloud. To access these IaaS instances from branch offices, customers need to configure as many tunnels as IaaS instances for every branch office, which is operationally complex. Such a topology also leads to challenges of security and performance.

Solution: With Aryaka SmartConnect and SmartCloud, branch offices obtain secure and accelerated connectivity to any IaaS provider. Aryaka provides direct connectivity to AWS, Azure, Google Cloud or Alibaba Cloud instances, via either a private connection or an IPsec tunnel. This configuration ensures that only one tunnel needs to be created for any branch unlike the earlier case of one tunnel for every IaaS instance. Check Point CloudGuard IaaS is a virtualized form factor of a next-generation firewall that can be deployed in an IaaS environment. Connecting to an IaaS provider through Aryaka SmartConnect and SmartCloud guarantees high performance access. Once the connectivity to the IaaS instance is established, Check Point CloudGuard IaaS can be deployed on-demand for inserting firewall services.

Benefits: Enterprises connecting to IaaS thus obtain accelerated and optimized connectivity along with the same level of security and performance as workloads in the customer data center, without the use of any additional equipment or resources.

About Aryaka Networks

Aryaka, the Cloud-First WAN company, brings agility, simplicity and a great experience to consuming the WAN-as-a-service. An optimized global network and innovative technology stack delivers the industry's #1 managed SD-WAN service and sets the gold standard for application performance. Aryaka's SmartServices platform offers connectivity, application acceleration, security, cloud networking and insights leveraging global orchestration and provisioning. The company's customers include hundreds of global enterprises including several in the Fortune 100.

To learn more, visit www.aryaka.com.

About Check Point

Check Point Software Technologies Ltd. is a leading provider of cyber security solutions to governments and corporate enterprises globally. Its solutions protect customers from cyber-attacks with an industry leading catch rate of malware, ransomware and other types of attacks. Check Point offers a multilevel security architecture that defends enterprises' cloud, network and mobile device held information, plus the most comprehensive and intuitive one point of control security management system. Check Point protects over 100,000 organizations of all sizes.

For more information, visit www.checkpoint.com.