

SOLUTION BRIEF

Talari Networks and Palo Alto Networks: Secure SD-WAN at the Branch

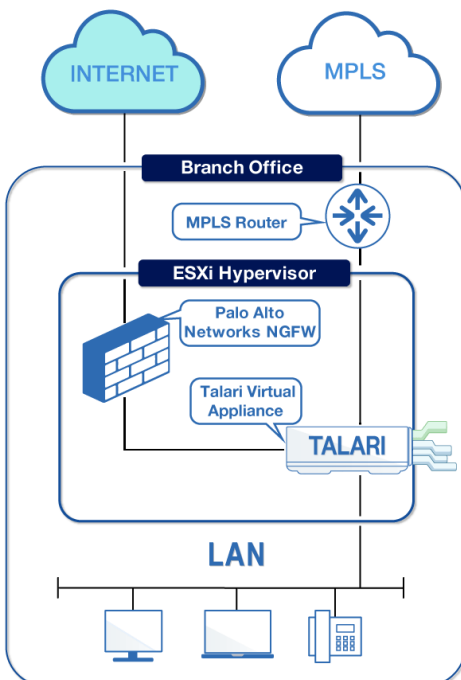
Talari Networks delivers a Software Defined WAN (SD-WAN) that engineers the internet and branch for maximum business impact by offering superior application reliability and resiliency. Customers looking to deploy a branch office that ensures superior performance of critical applications with best of breed security protection for local Internet access can now leverage the Talari Networks virtual SD-WAN solution coupled with Palo Alto Networks' Next Generation Security Platform.

Together, Talari and Palo Alto Networks enable customers to:

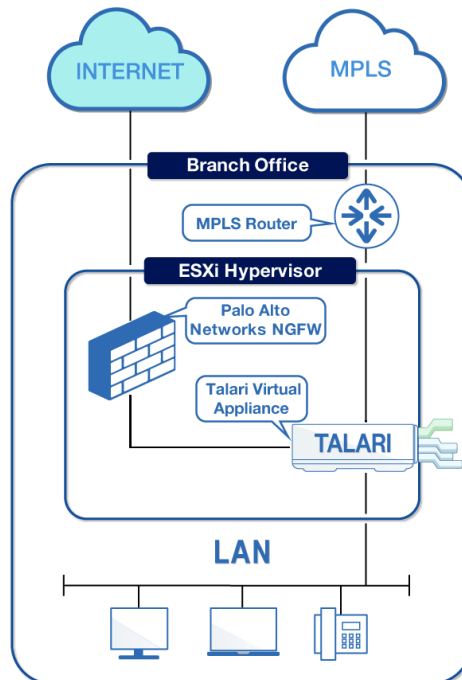
- Simplify their branch office network and reduce their hardware footprint
- Consolidate physical hardware appliances into a virtual solution
- Leverage the Talari Appliance E100 to host and chain services
- Ensure superior application performance over various links
- Obtain next generation security and threat defense

We will examine three leading deployment scenarios. Note that while there are other possible deployment options in the environment, the following scenarios are most commonly deployed:

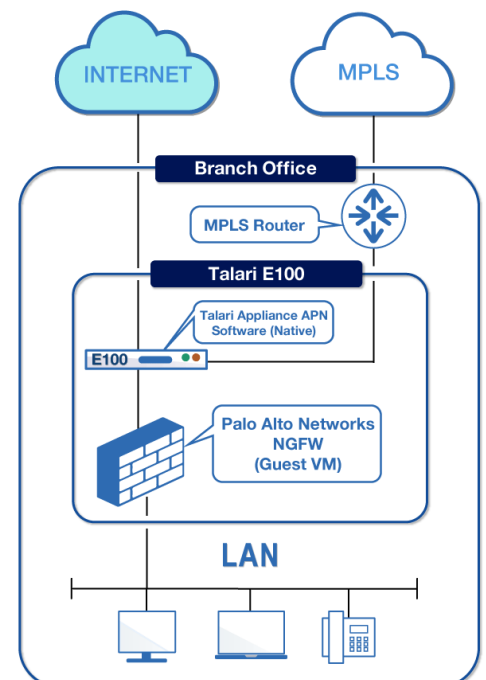
1. Virtual Palo Alto Networks Next Generation Firewall (NGFW) is in-line with a Talari SD-WAN virtual appliance. The NGFW protects the branch from Internet threats and provides network address translation (NAT) for traffic destined to and from the public WAN. This deployment model is also supported with the Talari Appliance E100 hosting a virtual Palo Alto Networks NGFW.
2. Virtual deployment where the Talari SD-WAN virtual appliance is out of path with the Palo Alto Networks NGFW. The NGFW protects traffic on both the corporate private and public networks.
3. Physical deployment where the Talari Appliance E100 is out of path with the Palo Alto Networks NGFW. The NGFW is inspecting and securing all data from the branch prior to sending data via the MPLS or Internet WAN Links.



Scenario 1:
Palo Alto Networks NGFW in-line with
Talari SD-WAN



Scenario 2:
Talari out of path from the Palo Alto
Networks NGFW



Scenario 3:
Palo Alto Networks NGFW as a guest
VM on Talari Appliance E100

Scenario 1: Palo Alto Networks NGFW is in-line with the Talari SD-WAN

The Talari virtual appliance is in-line with the Palo Alto Networks NGFW virtual firewall protecting the Internet WAN link. Talari is also in-line between the LAN and the private WAN. Both the Internet WAN link and the MPLS WAN link will be utilized by the Talari SD-WAN conduit. The default gateway is the MPLS router and all traffic sourced from the LAN will be forwarded to the MPLS router flowing through the Talari virtual appliance. The traffic destined for the private WAN will be encapsulated in a Talari conduit and forwarded to its destination. The traffic for the Internet will be forwarded to the Palo Alto Networks NGFW for inspection and NAT.

Scenario 2: Talari's SD-WAN virtual appliance is out of path with the Palo Alto Networks NGFW

The virtual Palo Alto Networks NGFW is the default gateway which results in all traffic sourced from the LAN being forwarded to the firewall for inspection. Based on the defined policies, the NGFW will permit or deny traffic. Packets destined for the public Internet will have network address translation (NAT) applied while packets destined for the private WAN will be forwarded to the Talari virtual appliance which will then encapsulate the traffic in a Talari conduit. The Talari appliance will utilize both the MPLS and the Internet WAN links to support the transmission of conduit traffic over the WAN.

Scenario 3: Palo Alto Networks NGFW guest VM on Talari Appliance E100

The Talari Appliance E100 hosts the Palo Alto Networks NGFW as a KVM-based guest application. In this scenario, the user requires that all LAN traffic, regardless of destination, must be secure. The Palo Alto Networks NGFW is the default gateway for the LAN and will perform traffic inspection with traffic destined to the private WAN being forwarded to the Talari Appliance. The Talari Appliance will then make the per-packet routing decision by sending the encrypted encapsulated data packet either through the MPLS WAN Link or back towards the Palo Alto Networks NGFW to be forwarded on through the Internet WAN Link.

Why Talari Networks SD-WAN?

A Talari SD-WAN transforms a traditional WAN into a network that is easy and fast to deploy, offers applications increased reliability and performance while leveraging affordable broadband links that are transformed into an enterprise-class network. It does this by understanding a company's applications and priorities while adapting automatically to changing conditions and demands. As an overlay solution, Talari supports various link types, such as MPLS and broadband Internet, and works well with common services such as WAN optimization or routing.

Why Palo Alto Networks Next-Generation Security Platform?

Palo Alto Networks is the next-generation security company, leading a new era in cybersecurity by safely enabling applications and preventing cyber breaches for tens of thousands of organizations worldwide. Built with an innovative approach and highly differentiated cyber threat prevention capabilities, Palo Alto Networks' game-changing security platform delivers security far superior to legacy or point products, safely enables daily business operations, and protects an organization's most valuable assets.

Palo Alto Networks' natively integrated platform brings network, cloud and endpoint security into a common architecture, with complete visibility and control, ensuring your organization can detect and prevent attacks. This next-generation security platform streamlines day-to-day operations and boosts security efficacy, and the one-of-a-kind, multilayered defense model prevents threats at each stage of the attack life cycle.

TALARI Networks

About Talari Networks

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Talari is the leader in Failsafe SD-WANs™ that deliver both MPLS-class high availability and high QoE (Quality of Experience) predictable application performance for both TCP-based apps and real-time apps like VoIP and videoconferencing, whether built on a hybrid MPLS plus Internet WAN fabric, or a WAN comprised of only Internet connections. Talari technology delivers a multi-link WAN with 50 - 400 times more bandwidth per dollar, WAN cost reductions of 40% - 80%, and greater network reliability and superior application QoE than any single MPLS network. Talari is deployed in over 500 customers in more than 9,000 locations in over 40 countries, and boasts a 90+ NPS (Net Promoter Score).

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