

SOLUTION BRIEF

Branch Office Simplification: Cost Effective Solution that Delivers Critical Branch IT Services while Reducing Complexity

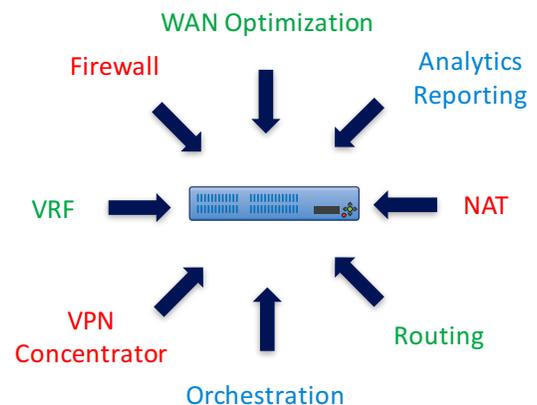
State of the Enterprise Branch – New Demands and Increased Complexity

IT is under pressure to deliver branch office access with improved quality of experience to an emerging set of applications that exist in a variety of locations, such as the cloud. The deployment of these applications is increasing the types and number of required branch services resulting in added complexity, reduced flexibility, and higher support cost. While branch services and complexity are increasing, the required technical skills available in the branch to support the new infrastructure is frequently lacking or non-existent.

One option that is gaining momentum to address this issue is service consolidation which reduces the number of individual point products at the branch into “all-in-one” or “branch-in-a-box” devices. Key advantages of this approach are the integrated deployment and ongoing management that eases the support overhead required to manage the branch as well as OPEX reduction due to the procurement of fewer devices.

An alternative approach is to unify best of breed products that deliver the required branch services into a common solution. A key requirement to enable this approach is to ensure that IT has the tools and information available to easily and quickly deploy and manage this multi-vendor approach on an ongoing basis.

A Talari solution supports both of these options by consolidating multiple core network and security functions, including emerging SD-WAN services, into an easy to deploy, virtual or physical appliance which is administered from a central location. The solution is extensible and works with leading 3rd party vendors to deliver the services your applications require in any branch location.



Talari Networks delivers a comprehensive branch services portfolio

Talari is focused on incorporating critical services into our products that help customers with their branch simplification efforts. The following list highlights the key services that a Talari solution supports:

IP Routing - With support for popular BGP and OSPF routing protocols, Talari Appliances deliver a simplified deployment experience by discovering LAN subnets and advertising SD-WAN routes, which reduces the reliance on error-prone and labor intensive static routes, improves high availability by detecting downstream changes to support failover, and lowers cost and complexity by eliminating branch routers.

Encryption - Talari offers two levels of encryption (application level and network level) that improve the security of data as it traverses between the WAN and branch offices. Data sent across public links is encrypted using either 128-bit or 256-bit AES encryption which ensures that data cannot be interpreted or compromised while in transit.

VPN (IPsec) - Termination of IPsec tunnels enables a Talari appliance to integrate with traditional and popular IPsec infrastructures with support for up to 8 IPsec VPN tunnels per device. This capability and scale allow customers to replace a dedicated appliance or router-based VPN concentrator supporting site-to-site IPsec connectivity with Talari, which leverages a 140-2 Level 1 FIPS- certified IPsec cryptographic binary.

SD-WAN – Talari’s SD-WAN services enable a smart and responsive network that is comprised of a variety of WAN link types including MPLS, Internet, LTE and Satellite. Through Talari’s technology, these links are enhanced to deliver a failsafe infrastructure that adapts in real time to bandwidth demand and actual network conditions, ensuring that, regardless of network issues, critical applications have priority and all applications take the best quality path through the network.

Virtual Routing and Forwarding (VRF) – VRFs allow Talari appliances to support data segmentation that enables a single device to appear as multiple, virtual devices from an IP routing perspective. This capability empowers network administrators to securely host multiple customer or department networks at a branch site or the create distinct routing domains to segment large corporate networks.

Firewall with NAT - The Talari zone-based stateful firewall supports policy-based filtering between services and security zones as well as static and dynamic NAT. A unique capability of the Talari firewall, when used in conjunction with a Talari SD-WAN, is for security zones to extend across multiple branch locations, which reduces the initial configuration and ongoing efforts required to manage security services. To simplify the configuration process, firewall policies are created at the global level and can be applied to all branch sites within the network.

DHCP Server and DHCP Relay - Devices on the same network as the Talari Appliance's LAN/VLAN interface may now use the Talari DHCP Server and DHCP Relay features to provide those devices with their IP configuration. A robust set of IP addressing options is supported to ensure that clients obtain a comprehensive set of IP parameters locally or from a DHCP server located at a central site.

Central Orchestration with Reporting – All Talari functions and services are configured from a central appliance (Talari Network Control Node) or management console (Talari Aware) which greatly reduces the effort required to build and maintain the branch infrastructure in multiple sites. Also, network-wide reporting is integrated into the solution to assist with common activities such as troubleshooting network issues or capacity planning.

New partnerships extend the solution to include 3rd party vendors.

While Talari has integrated a robust set of services into its appliances, customers may wish to include 3rd party offerings as a part of their branch infrastructure to deliver incremental services or services from specific vendors such as a Palo Alto Networks Firewall. To assist in these situations, Talari has introduced the Talari Unite Technology Alliances Program. This program encompasses an ecosystem of technology providers that, together, extend the value of Talari's solutions and allows enterprises to confidently engineer their networks and branch with agility, predictability, and dependability. The program includes partners that deliver network services, operating systems, hypervisors, cloud platforms and wireless providers. For each of these partners, deployment guides are available to simplify the integration of a Talari solution with a given partner's technology. Please visit the Talari Unite program page for a current list of the partners that are participating in the program.



<http://www.talari.com/partners/alliance-partners/>

Solution Benefits

Effortless Deployment and Management - Deploying a Talari appliance in the branch is fast and simple. By completing three steps, IT organizations can have a Talari appliance online with central administration and reporting available to facilitate a production implementation.

Lower Complexity with Device Consolidation - More than just an SD-WAN device, Talari appliances support popular functions such as firewall and routing. Instead of having multiple devices from a variety of vendors, you can now deploy one Talari appliance and greatly reduce branch device sprawl and cost.

Scalable and Easy Service Chaining - Talari can make the service chain provisioning process a whole lot shorter and simpler by offering converged services with a common management interface.

Partner Ecosystem to Deliver Incremental Capabilities – IT organizations can easily extend their Talari branch infrastructure solution to include popular 3rd party services and technology through the Talari Unite program and its corresponding support materials.

For more information, please visit: <http://www.talari.com/solutions/branch-office-simplification/>.

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About Talari Networks

Talari Networks, the trusted SD-WAN technology and market leader, engineers the internet and branch for maximum business impact by designing failsafe WANs that deliver superior business-critical application reliability and resiliency, while unlocking the simplification and cost reduction benefits of branch consolidation.

Talari delivers a comprehensive solution, supporting a variety of network services in physical, virtual and cloud locations, which can be acquired through perpetual licensing, monthly subscription rates or as-a-service. Passionate and committed to their customers, Talari has incorporated eight years of innovation into five generations of product and is successfully deployed across thousands of sites in over 40 countries.

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