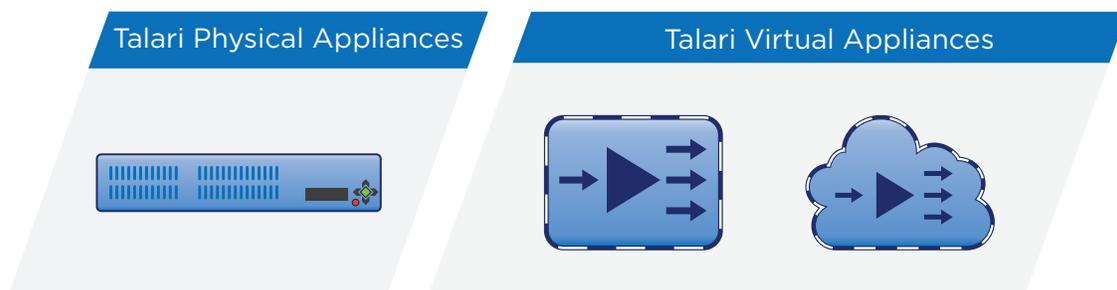# TALARI APPLIANCES
DATASHEET

Talari Networks delivers a WAN edge solution that engineers the internet and branch for maximum business impact. This is achieved by creating failsafe WANs which offer superior application reliability, while unlocking the benefits of branch network simplification. This solutions is built on a comprehensive appliances portfolio that provides key network services including SD-WAN, routing and firewall.

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

Customers have great flexibility in determining how a Talari solution is deployed including at the physical edge, the virtual edge, or in the cloud.

- Physical appliances offer an easy to acquire and deploy WAN edge option that supports the features, performance and scale to meet the needs of sites that range in size from large data centers to small office/home offices.
- Companies that want to standardize on commoditized hardware can use the Talari Virtual Appliance VT800, an on-premises software-only appliance which runs in VMWare vSphere virtual server and Microsoft Hyper-V.
- Organizations that need to improve the reliability and quality of their cloud access can deploy the Talari Virtual Appliance CT800, which is available for Amazon Web Services or the VT800, that supports Microsoft Azure. Both the CT800 and VT800 act as a gateway to IaaS locations, SaaS applications, and Internet sites.

All appliances run Talari's patented Adaptive Path Networking (APN) software. So regardless of which type of appliance is deployed, customers can rest assured in having identical features as well as a consistent deployment and support experience which simplifies SD-WAN, routing and firewall administration and reduces support costs.

Talari Physical Appliances	Talari Virtual Appliances

TALARI APPLIANCE BENEFITS AND FEATURES

Failsafe Hybrid WAN

A Talari hybrid WAN employs dedicated multiprotocol label switching (MPLS) circuits plus public Internet connections to build a WAN infrastructure. Talari has the ability through its granular WAN performance tracking, QoS that includes bandwidth reservation and real-time best path selection to create a reliable, high-performance WAN regardless of the quality of the underlying network.

Fast and Simple to Deploy

Talari Easy Edge capabilities allow a tech savvy central IT team to preconfigure a Talari appliance, which can then be factory shipped directly to a branch location. At the branch location, a non-technical individual can unbox, plug in and power up the device to get connected to the SD-WAN. Also, Talari Basic View with Configuration Templates ensures that ongoing configuration and management of the applaince is a breeze.

Security for the WAN and the Branch

Talari offers multiple capabilities that improve the security of the WAN edge and ensure that data cannot be interpreted or compromised. Data sent across public links is encrypted using either 128-bit or 256-bit AES encryption. A stateful zone-based firewall offers packet filtering services and data segmentation using VRF (virtual routing and forwarding) enables a single appliance to securely host multiple customer or department networks. Termination of IPsec tunnels is another capability which enables a Talari appliance to actively integrate with traditional and popular IPsec infrastructures.

Easy Centralized Orchestration

The controller or Network Control Node (NCN) is an orchestration point for a Talari solution. Beyond being the central point for SD-WAN and services configuration, the NCN establishes dynamic connections between client appliances. The NCN can be located on-premises or in the cloud with all Talari Appliances, except the E100 and T510, eligible to act as the NCN.

Pay-as-You-Grow Performance

All Talari appliances support a range of performance that is controlled by a software license which is available as a subscription or perpetual purchase. A benefit of this "rightsized" approach is that oganizations only need to pay for the performance needed today, and can upgrade to a higher performance level (up to the appliance maximum) by acquiring an easy to implement, new perfromance license.

Router Replacement

With support for popular BGP and OSPF routing protocols, Talari Appliances deliver a simplified deployment experience by discovering subnets and advertising routes, reducing the reliance on error-prone and labor intensive static routes, improving high availability by detecting downstream changes to support failover, and lowering cost and complexity by potentially eliminating branch routers. Additional services such as DHCP Server and Relay, and Network Address Translation (NAT) are supported which further reduces the need for additional branch hardware including legacy routers.

Talari Virtual Appliances

Talari Virtual Appliance CT800 for AWS

The Talari Virtual Appliance CT800 runs in the AWS cloud and supports up to 100 Mbps full-duplex and can be the designated network controller for a Talari WAN. The CT800 can provide secure, aggregated cloud access over broadband or Direct Connect links to ensure high quality and reliable access to IaaS, SaaS, and Internet locations.

AWS EC3 Instance Requirements:

Instance Type: c3.2xlarge

Number of CPUs: 2

RAM: 3.75 GB

Storage: 40 GB

Number of Network Interfaces: 3

Talari Virtual Appliance VT800

The Talari Virtual Appliance VT800 supports 20 Mbps, 40 Mbps, 100 Mbps, 200 Mbps full-duplex[1]. It runs in a VMware vSphere virtual server, Microsoft Hyper-V hypervisor or Microsoft Azure cloud platform and provides the same SD-WAN functionality as a physical appliance.

Requirements:

Processors: 64-bit, 3 GHz or better, with support for Advanced Encryption Standard - New Instructions (AES- NI) (e.g., Intel Xeon 5600+)

Operating System: 1 dedicated Ethernet port, but no more than 7 total Ethernet ports

Dedicated Storage: 40 GB

Dedicated Virtual CPUs: 1-4 depending on performance level
Dedicated RAM: 2-4 GB depending on performance level

[1] Note that the maximum performance license available for Azure deployments is 100 Mbps

Talari Physical Appliances

Talari Appliance T5200

The T5200 is intended for data centers and large offices and supports an aggregation of WAN bandwidth up to 5 Gbps full duplex. It can act as an edge appliance or network controller for a Talari SD-WAN and WAN edge solution. Containing a combination of RJ45 and 10 Gbps short haul optical ports with fail-to-glass ability, the T5200 is ideal for locations with LAN or WAN side optical infrastructure.

Talari Appliance T5000

The T5000 brings reliability and higher bandwidth to large data centers and call centers. It is optimized for large amounts of small packets, making it ideal for VoIP and VDI situations. The T5000 supports up to 3 Gbps full duplex of WAN bandwidth across the union of private WAN links and public Internet connections.

Talari Appliance T3010
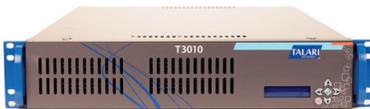
Designed for headquarters and data centers, T3010 delivers the aggregation of WAN bandwidth up to 1 Gbps full-duplex. The T3010 delivers WAN performance across the union of private WAN links and public Internet connections while providing support for a large number of branch connections and application flows.

Talari Appliance T860

The T860 is a 1U rack-mountable appliance that can act as an edge appliance or network controller, and is ideally suited for a medium sized data center or a large remote office. T860 supports a total of 800 Mbps full-duplex across multiple WAN links and is designed to bring reliability and bandwidth to regional data centers and smaller headquarters.

Talari Appliance E100

The E100 is an edge appliance for a small to medium sized branch office and supports a total of up to 200 Mbps full-duplex across multiple WAN links. The E100 is designed to bring an easy to install, service rich appliance to support next generation WAN edge. The E100 offers a high degree of service flexibility including being able to host 3rd party software.

Talari Appliance T510

Designed especially to bring the reliability and bandwidth to small office/home office environments typically served today by IPsec VPNs, the T510 appliance affordably delivers up to 40 Mbps full-duplex complementing Talari's higher-capacity appliance models.

Talari Physical Appliance Specifications

	T510	E100	T860	T3010	T5000	T5200
Location	SOHO/Small Branch	Small to Medium Branch	Medium Data Center	HQ / Data Center	Data Center/Call Center	Data Center/Call Center
Maximum Bandwidth	40 Mbps (Full-Duplex)	200 Mbps (Full-Duplex)	800 Mbps (Full-Duplex)	1 Gbps (Full-Duplex)	3 Gbps (Full-Duplex)	5 Gbps (Full-Duplex)
Network Control Node			✔	✔	✔	✔
High-Availability		✔	✔	✔	✔	✔
Geographic Redundancy			✔	✔	✔	✔
Number of Ethernet Ports, Management included	4 x 10/100/1000 Mbps (3xGeneral Purpose, 1xManagement)	6 x 10/100/1000 Mbps (5xGeneral Purpose, 1xManagement)	10x 10/100/1000 Mbps (9xGeneral Purpose, 1xManagement)	6 x 10/100/1000 Mbps (5xGeneral Purpose, 1xManagement)	10 x 10/100/1000 Mbps (9xGeneral Purpose, 1xManagement)	6 x 10/100/1000 Mbps (6xGeneral Purpose, 1xManagement)
Number of Optical Ports						4
Fail-to-wire	1 pair	2 pairs	2 pairs	2 pairs	4 pairs	2 pairs Ethernet 2 pairs Optical
Management Ports	Serial console port Ethernet port	Serial console port Ethernet port	Serial console port Ethernet port	Serial console port Ethernet port	Serial console port Ethernet port	Serial console port Ethernet port
Other Ports	2 x USB 2.0 ports 1 x VGA port	2 x USB 2.0 ports	2 x USB 2.0 ports	2 x USB 2.0 ports 2 x PS2 ports 1 x VGA port	2 x USB 2.0 ports 1 x VGA port	2 x USB 2.0 ports 1 x VGA port
LCD		2x16		2x16	2x16	2x16
Mounting	EIA RS-310 standard 1U	EIA RS-310 standards 1U	EIA RS-310 standards 1U	EIA RS-310 standards 2U	EIA RS-310 standards 2U	EIA RS-310 standards 2U
Size	437mm (W) x 249mm (D) x 43mm (H) (17.2″ x 9.8″ x 1.7″)	431mm (W) x 305mm (D) x 44mm (H) (16.9″ x 12.0″ x 1.7″)	426mm (W) x 356mm (D) x 43mm (H) (16.8″ x 14.0″ x 1.7″)	426mm (W) x 650mm (D) x 89mm (H) (16.8″ x 25.6″ x 3.5″)	437mm (W) x 650mm (D) x 89mm (H) (17.2″ x 25.6″ x 3.5″)	437mm (W) x 650mm (D) x 89mm (H) (17.2″ x 25.6″ x 3.5″)
Operating temperature	0 to 55° C (32 to 131° F)	0 to 40° C (32 to 104° F)	5 to 35° C (41 to 95° F)	10 to 35° C (50 to 95° F)	0 to 40° C (32 to 104° F)	0 to 40° C (32 to 104° F)
Storage temperature	-40 to 70° C (-40 to 158° F)	-20 to 70° C (-4 to 158° F)	-40 to 60° C (-40 to 140° F)	-40 to 70° C (-40 to 158° F)	-40 to 80° C (-40 to 176° F)	-40 to 80° C (-40 to 176° F)
Relative Humidity	8% to 90% non-condensing	5% to 90% operating environment 5% to 95% storage environment	8% to 90% operating environment 5% to 95% storage environment	8% to 90% non-condensing	10% to 90% non-condensing	10% to 90% non-condensing

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About Talari

Talari Networks, the trusted SD-WAN technology and market leader, engineers the internet and branch for maximum business impact, delivering superior application reliability and resiliency, while unlocking the benefits of branch consolidation. Incorporating years of innovation into five generations of product, Talari is deployed across thousands of sites in 40 countries.