

# TALARI SD-WAN SOLUTIONS

Talari delivers a WAN-edge solution that engineers the branch network for maximum business impact. This is achieved by creating failsafe WANs that offer superior application reliability, while unlocking the benefits of network resiliency and scalable bandwidth. Talari solutions are built on a flexible portfolio that provides key network services including SD-WAN, WAN-OP routing and firewall.

A Talari WAN edge solution transforms a traditional WAN into a network that is easy and fast to deploy, offers increased applications 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 support 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 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 application, and Internet sites.

All appliances run Talari's patented Adaptive Path Networking (APN) software so regardless of what 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.

## 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 appliance 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 in transit 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) enabling a single appliance to securely host multiple customer or department networks. Talari is also capable of transparently forwarding all internet traffic to the Zscaler™ secure cloud gateway, and running NGFW services by Palo Alto Networks.

### 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 T510, so that they are 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 organizations 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 performance license.

### Router and WAN Optimization Replacement

With support for popular BGP and OSPF routing protocols, Talari Appliances can lower costs and network complexity by eliminating the need to maintain multiple branch devices. Beyond router protocol support, services such as WAN Optimization, DHCP Server and Relay, and Network Address Translation (NAT) are also available. When combined, these capabilities further reduce the need for additional branch hardware including legacy routers or WAN Optimization Controllers.

## CLOUD 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 up to 2 Gbps full-duplex<sup>1</sup>. 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

<sup>1</sup> Note that this performance level is only available on VT800 appliances deployed on VMware ESX.

## 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 E1000

Designed for medium to large branch locations, the E1000 delivers WAN performance up to 2 Gbps full-duplex across multiple WAN links. The E1000 is designed to bring a service rich appliance to support next generation WAN edge. The E1000 offers a high degree of service flexibility including being able to host 3rd party software.



### Talari Appliance E100

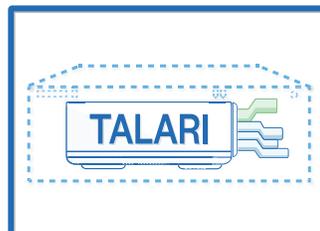
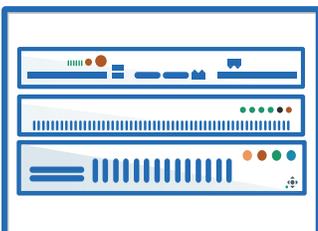
The E100 is an edge appliance for a small- to medium-sized branch office and supports a total of up to 500 Mbps full-duplex across multiple WAN links. The E100 is designed to bring an easy to install, service rich appliance to support next generation WAN edge. The E100 offers a high degree of service flexibility including being able to host 3rd party software.



### Talari Appliance E50

The E50 is an SD-WAN solution designed for customers who require an easy-to-deploy and operate multi-service WAN Edge physical appliance to connect small branch-office locations such as retail or mobile sites. It supports a total of up to 100 Mbps full-duplex performance across multiple WAN links while delivering key edge network features including routing, firewall and WAN optimization.

## TALARI SD-WAN DEPLOYMENT OPTIONS



# TALARI PHYSICAL APPLIANCE SPECIFICATIONS

	E50	E100	E1000	T5000	T5200
<b>Location</b>	Small Site or Home Location	Small to Medium Branch	Medium/Large Branch	Data Center/Call Center	Data Center/Call Center
<b>Maximum Bandwidth</b>	100 Mbps (Full-Duplex)	500 Mbps (Full-Duplex)	2 Gbps (Full-Duplex)	3 Gbps (Full-Duplex)	5 Gbps (Full-Duplex)
<b>Network Control Node</b>		✓	✓	✓	✓
<b>High-Availability</b>		✓	✓	✓	✓
<b>Geographic Redundancy</b>		✓	✓	✓	✓
<b>Number of Ethernet Ports, Management included</b>	4x 10/100/1000 Mbps (2xGeneral Purpose, 1xManagement, 1Aux)	6 x 10/100/10 00 Mbps (5xGeneral Purpose, 1xManagement)	10 x 10/100/1000 Mbps (9xGeneral Purpose, 1xManagement) Opt. 2x10 Gbps or 4 x 1 Gbps daughter card	10 x 10/100/1000 Mbps (9xGeneral Purpose, 1xManagement)	6 x 10/100/1000 Mbps (6xGeneral Purpose, 1xManagement)
<b>Number of Optical Ports</b>					4
<b>Fail-to-wire</b>	1 pair	2 pairs	2 pair Standard, Opt. additional 2 pair	4 pairs	2 pairs Ethernet 2 pairs Optical
<b>Management Ports</b>		Serial console port Ethernet port	Serial console port, Ethernet port	Serial console port Ethernet port	Serial console port Ethernet port
<b>Other Ports</b>	Ethernet Port	2 x USB 2.0 ports	2 x USB 3.0 ports, 2 x USB 2.0 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
<b>LCD</b>		2x16		2x16	2x16
<b>Mounting</b>	Desktop (Rackmount option EIA RS-310 standards 1U)	EIA RS-310 standards 1U	EIA RS-310 standard 1U	EIA RS-310 standards 2U	EIA RS-310 standards 2U
<b>Size</b>	44mm (W) x 249mm (D) x 137.1mm (H) (1.7" x 7.3" x 5.4")	431mm (W) x 305mm (D) x 44mm (H) (16.9" x 12.0" x 1.7")	437mm (W) x 650mm (D) x 43mm (H) (17.2" x 26.5" x 1.7")	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")
<b>Operating temperature</b>	0 to 45° C	0 to 40° C (32 to 104° F)	5 to 35° C (41 to 95° F)	0 to 40° C (32 to 104° F)	0 to 40° C (32 to 104° F)
<b>Storage temperature</b>	-40 to 70° C (-40 to 158° F)	-20 to 70° C (-4 to 158° F)	-40C-70° C (-40F-158F)	-40 to 80° C (-40 to 176° F)	-40 to 80° C (-40 to 176° F)
<b>Relative Humidity</b>	5% to 90% non-condensing	5% to 90% operating environment 5% to 95% storage environment	8% to 90% non-condensing	10% to 90% non-condensing	10% to 90% non-condensing
<b>Power</b>	Non-redundant power supply 36 watt power adapter 100-240 volts AC; 50-60Hz AC input frequency		600W Platinum Efficiency Power Supply; 100-240 Volts AC; 50-60Hz AC Input Frequency	Redundant hot swappable 740 watt AC power supply 100-240 volts 50-60 Hz	Redundant hot swappable 740W AC power supply 100-240 volts 50-60 Hz

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### About Talari

Talari Networks, innovator of the most reliable SD-WAN technology, engineers the branch and edge network for maximum business impact, delivering superior application performance and network resiliency, while unlocking the benefits of seamless cloud connectivity services. Incorporating years of innovation into seven generations of product, Talari is deployed across thousands of sites in over 40 countries.