

# Talari Platforms

Software-defined wide area networks (SD-WANs) offer increased network capacity, improved traffic reliability, and a higher quality of experience (QoE) while lowering costs. A failsafe SD-WAN secures and consolidates communications infrastructure to flexibly deploy and deliver applications and services, without sacrificing availability or performance.

## THE ORACLE SD-WAN SOLUTION

The Oracle SD-WAN solution supports all internet transport technologies, including MPLS and broadband internet, as well as satellite communication, 3G/4G, and point-to-point circuits. Customers have great flexibility in determining how the SD-WAN 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 offices or home offices.
- Companies wanting to standardize on commoditized hardware can use the virtualized Oracle TSD-WAN - an on-premises, software-only appliance that runs in VMWare vSphere and Microsoft Hyper-V.
- Organizations that need to improve the reliability and quality of their cloud services may deploy Oracle SD-WAN Edge on Oracle Cloud Infrastructure (OCI), Microsoft Azure, or Amazon Web Services (AWS). All the Oracle SD-WAN solutions for cloud deployment can act as gateways to IaaS locations, SaaS applications, and internet sites.

All appliances run Oracle's adaptive path networking (APN) software. Regardless of the type of appliance deployed, customers can rest assured they all have identical features as well as a consistent deployment and support experience. All this simplifies SD-WAN routing and firewall administration and reduces support costs.

## BENEFITS AND FEATURES

Oracle SD-WAN platforms offer important features and benefits, including:

- **Failsafe SD-WAN.** Oracle's hybrid WAN employs dedicated multiprotocol label switching (MPLS) circuits plus public internet connections to build a WAN infrastructure. The Oracle SD-WAN 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.

### Key Features

- Easy-to-use, centralized orchestration
- Load balance across aggregated bandwidth
- Seamless interoperability between expensive MPLS connections and inexpensive commodity internet
- Highly scalable for branch office deployments or cloud connections

### Key Business Benefits

- Increase resiliency and reliability
- Experience superior QoE
- Maintain high network availability
- Maintain continuous uptime for mission critical applications
- Reduce WAN legacy costs
- Deploy rapidly and easily
- Protect IT infrastructure, services, and applications with built-in security
- Increase bandwidth performance

- **Services for the WAN and the branch.** By supporting routing and WAN optimization, Oracle SD-WAN delivers multiple, centrally administered WAN edge services on each appliance. From a security perspective, combining a stateful, zone-based firewall with data segmentation using virtual routing and forwarding (VRF) enables a single appliance to securely access the cloud or host multiple customer or department networks.
- **Business-class cloud management and access.** Oracle's SD-WAN virtual appliances enable organizations to leverage the AWS and Azure marketplaces to easily deploy an enterprise-administered cloud instance that delivers the full suite of Oracle's APN services and capabilities in popular cloud platforms.

## CLOUD APPLIANCES

This appliance runs in Oracle Cloud Infrastructure (OCI), Microsoft Azure, and Amazon Web Services (AWS) cloud environments and supports up to 500 Mb/sec full-duplex and can be designated as a network controller for an Oracle SD-WAN network. The cloud appliance 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.

ORACLE CLOUD	Cloud Instance - 100 Mbps
Instance type	VM.Standard2.4
Number of CPUs	8
RAM	60 GB
Storage	160 GB
Network interfaces	3

MICROSOFT AZURE	Cloud Instance - 500 Mbps	Cloud Instance - 20 Mbps
Instance type	DS13_v2	DS12_v2
Number of CPUs	8	4
RAM	56 GB	28 GB
Storage	160 GB	160 GB
Network interfaces	3	3

AMAZON WEB SERVICES	Cloud Instance - 500 Mbps	Cloud Instance - 200 Mbps
Instance type	c5.4xlarge	C3.2xlarge
Number of CPUs	16	8
RAM	32 GB	15 GB
Storage	160 GB	160 GB
Network interfaces	3	3

## Oracle SD-WAN

Deployed in thousands of sites across more than 40 countries, the Oracle SD-WAN product family provides market-leading, trusted, failsafe SD-WAN technology. Oracle SD-WAN delivers superior application reliability and resiliency while unlocking the benefits of branch consolidation.

### Related Products

- Oracle SD-WAN Edge
- Oracle SD-WAN Aware
- Oracle Communications Enterprise Session Border Controller
- Oracle Communications Enterprise Operations Monitor

### Related Hardware Appliances





- Oracle Talari E50
- Oracle Talari E100
- Oracle Talari D2000
- Oracle Talari D6000

## VIRTUAL APPLIANCES

This appliance supports up to 2 Gb/sec full-duplex. The appliance supports running on VMware vSphere, Linux Kernel Virtual Machine (KVM), and Microsoft Hyper-V and provides the same SD-WAN functionality as a physical appliance. Note that the maximum supported performance varies based on the hypervisor or cloud platform selected.

	Requirements
<b>Processors</b>	64-bit, 3.0 (or higher) GHz, with support for AES-NI
<b>Operating system</b>	1 dedicated Ethernet port, but no more than 7 total Ethernet ports
<b>Dedicated storage</b>	160 GB
<b>Dedicated virtual CPUs</b>	1 to 4 depending on performance level
<b>Dedicated RAM</b>	2 to 4 GB depending on performance level

## PHYSICAL APPLIANCES

APPLIANCE	CAPABILITIES
<p><b>Oracle Talari D6000</b></p> 	<p>Oracle Talari D6000 is for data centers or large offices supporting an aggregation of WAN bandwidth up to 7 Gb/sec* full duplex. It can act as an edge appliance or network controller.</p>
<p><b>Oracle Talari D2000</b></p> 	<p>Oracle Talari D2000 brings reliability and higher bandwidth to large data centers, call centers, UCaaS or CCaaS. It is optimized for large amounts of small packets, making it ideal for VoIP and VDI situations. Oracle Talari D2000 supports up to 3 Gb/sec* full duplex of WAN bandwidth across the union of private WAN links and public internet connections.</p>
<p><b>Oracle Talari E100</b></p> 	<p>Oracle Talari E100 is an edge appliance for a small- to medium-sized branch office and supports a total of up to 500 Mb/sec full-duplex across multiple WAN links. It is designed to bring an easy-to-install, service-rich appliance to support next generation WAN edge. Oracle Talari E100 offers a high degree of service flexibility.</p>
<p><b>Oracle Talari E50</b></p> 	<p>Oracle Talari E50 is an SD-WAN solution designed for customers who require an easy-to-deploy and operate multiservice WAN edge physical appliance to connect small, branch-office locations such as retail or mobile sites. It supports a total of up to 100 Mb/sec full-duplex performance across multiple WAN links while delivering key edge network features including routing, firewall, and WAN optimization.</p>

## PHYSICAL APPLIANCE SPECIFICATIONS

	Oracle Talari E50	Oracle Talari E100	Oracle Talari D2000	Oracle Talari D6000
<b>Location</b>	Small site or home location	Medium to small branch	Data center or call center	Large data or call center
<b>Maximum bandwidth</b>	100 Mb/sec Full-duplex	500 Mb/sec Full-duplex	3 Gb/sec <sup>^</sup> Full-duplex	7 Gb/sec* Full-duplex
<b>Control node</b>	—	✓	✓	✓
<b>High availability</b>	—	✓	✓	✓
<b>Geo redundancy</b>	—	✓	✓	✓
<b>Ports</b>	4x1 GE RJ45 2 general 1 management 1 auxiliary	6x1 GE RJ45 5 general 1 management	2 x 10 GE SFP+ 9 x 1 GE RJ45 9 general 1 management	2x10 GE SFP+ 4x10 GE (SR-FTW) 5x1 GE RJ45 5 general 1 management 6 optical ports
<b>Fail to wire</b>	1 pair: 2x1 GE	2 pairs: 4x1 GE	4 pairs: 8x1 GE	2 pairs: 4x1 GE 2 pair optical: 4x10 GE
<b>Management ports</b>	—	Serial console Ethernet	Serial console Ethernet	Serial console Ethernet
<b>Other ports</b>	Ethernet port	2 USB 2.0	—	—
<b>LCD</b>	—	2x16	—	—
<b>Size</b>	1U: 44 mm (W) x 249 mm (D) x 137 mm (H) (1.7" x 7.3" x 5.4") Desktop option	1U: 431 mm (W) x 305 mm (D) x 44 mm (H) (16.9" x 12.0" x 1.7")	1U: 437 mm (W) x 737 mm (D) x 42.6 mm (H) (17.2" x 25.6" x 1.7")	1U: 436.5 mm (W) x 737 mm (D) x 42.6 mm (H) (17.2" x 25.6" x 1.7")
<b>Operating temperature</b>	0° to 45° C	0° to 40° C (32° to 104° F)	5° to 35° C (41° to 95° F)	5° to 35° C (41° to 95° F)
<b>Storage temperature</b>	-40° to 70° C (-40° to 158° F)	-20° to 70° C (-4° to 158° F)	-40° to 70° C (-40° to 158° F)	-40° to 70° C (-40° to 158° F)
<b>Relative humidity</b>	5% to 90% non-condensing	5% to 90% operating environment; 5% to 95% storage environment	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; 50-60 Hz AC input frequency	100-240 volts, 50-60 Hz, 3-1.5 A max, 200W	Redundant, hot swappable 1200 W AC power supply; 100-240 volts 50-60 Hz	Redundant, hot swappable 1200 W AC power supply; 100-240 volts 50-60 Hz

\* - the 7 Gbps max performance based on traffic through appliance line card under Rel 8.2, 1400 byte packet. 5 Gbps under Rel 8.1. 64 byte packet is 450 Mbps under 8.1, 675 Mbps under 8.2

<sup>^</sup> - 2 Gbps under Rel 8.1

## CONNECT WITH US

Call +1.800.ORACLE1 or visit [oracle.com/sdwan](https://oracle.com/sdwan).

Outside North America, find your local office at [oracle.com/contact](https://oracle.com/contact).

 [blogs.oracle.com/oracle-communications](https://blogs.oracle.com/oracle-communications)  [facebook.com/OracleCommunications](https://facebook.com/OracleCommunications)  [twitter.com/OracleComms](https://twitter.com/OracleComms)

## Integrated Cloud Applications & Platform Services

Copyright © 2020, Oracle and/or its affiliates. All rights reserved. This document is provided for information purposes only, and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document, and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission.

This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group. 0220