Oracle® Talari D2000
Installation Guide

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Oracle Talari D2000 Installation Guide, Release D2000

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About This Guide

This guide will help you set up your D2000 using typical deployment scenarios.

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My Oracle Support

My Oracle Support (https://support.oracle.com) is your initial point of contact for all product support and training needs. A representative at Customer Access Support can assist you with My Oracle Support registration.

Call the Customer Access Support main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at http://www.oracle.com/us/support/contact/index.html. When calling, make the selections in the sequence shown below on the Support telephone menu:

1. Select **2** for New Service Request.
2. Select **3** for Hardware, Networking and Solaris Operating System Support.
3. Select one of the following options:
   - For Technical issues such as creating a new Service Request (SR), select **1**.
   - For Non-technical issues such as registration or assistance with My Oracle Support, select **2**.

You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.

Emergency Response

If a critical service situation occurs, the Tekelec Customer Care Center offers emergency response twenty-four hours a day, seven days a week. The emergency response provides immediate coverage, automatic escalation, and other features to ensure a rapid resolution to the problem.

A critical situation is defined as a problem that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical problems affect service or system operation, resulting in:

- Failure in the system that prevents transaction processing
- Reduction in system capacity or in system traffic-handling capability
- Inability to restart the system
- Corruption of the database

- Inability to perform maintenance or recovery operations
- Inability to provide any required critical or major trouble notification
- Any other problem severely affecting service, capacity, traffic, and billing. Maintenance capabilities may be defined as critical by prior discussion and agreement with the Tekelec Customer Care Center.

Revision History

Table 1 Revision history table

Date	Change
June 2019	• Initial Release
Nov 2019	• Rebranded
Jan 2020	• Adds ASR content
July 2021	• Removing Easy 1st Install procedure
Sept 2022	• Corrects typo.

1

Overview

The Oracle Talari D2000 is part of the D-series of Talari Appliances and intended for use in data centers that demand high performance and physical resiliency. The Oracle Talari D2000 supports WAN Optimization.

Figure 1-1 Oracle Talari D2000

What's Included

Figure 1-2 Cables

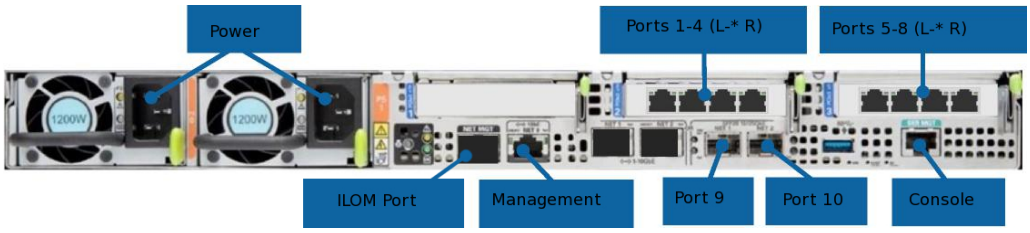
- 1x Blue Management Cable
- 2x Green LAN Cables
- 1x Red Crossover Cable
- 2x Orange WAN Cables
- 2x Power Cords (not pictured)
- 1x Console Cable (not pictured)
- Rack Mounting Kit (not pictured)
- Cable Management System (not pictured)

Front Panel

Figure 1-3 Front Panel

Rear Panel

Figure 1-4 Rear Panel



- **Power:** A/C Power Connectors
- **Port 1:** Gigabit Ethernet (bypass pair with Port 2)
- **Port 2:** Gigabit Ethernet (bypass pair with Port 1)
- **Port 3:** Gigabit Ethernet (bypass pair with Port 4)
- **Port 4:** Gigabit Ethernet (bypass pair with Port 3)
- **Port 5:** Gigabit Ethernet copper (bypass pair with Port 6)
- **Port 6:** Gigabit Ethernet copper (bypass pair with Port 5)
- **Port 7:** Gigabit Ethernet copper (bypass pair with Port 8)
- **Port 8:** Gigabit Ethernet copper (bypass pair with Port 7)
- **ILOM:** Integrated Lights Out Management port
- **Management:** Network management port
- **Port 9:** 1/10 Gigabit SFP+ (non-bypass)
- **Port 10:** 1/10 Gigabit SFP+ (non-bypass)
- **Console:** RJ-45 console port (115200/8-N-1)

Unpacking and Inspection Checklist

- Remove Oracle Talari D2000 appliance and accessories from box.
- Remove Oracle Talari D2000 from plastic wrapping.
- Inspect appliance for signs of damage.
- Ensure all accessories are included.

Rack Mounting

Prior to installing the device, adhere to the following installation guidelines:

- Ensure that there is adequate airflow in the rack. Restricted airflow can damage the equipment.
- Leave at least 1U of vertical space between each device installed in the rack.
- The rack width and depth should allow for proper serviceability and cable management.

- Ensure the rack is properly secured to the floor or ceiling.
- Ensure the rack is properly grounded.
- Ensure the installer is properly grounded and wearing appropriate safety equipment.
- Always load the rack from the bottom up.
- Load the heaviest devices in the rack first.
- Make sure the rack is level and stable before pulling a device out of the rack.
- Do not move racks by yourself; at least two people are recommended to move a rack.
- Cables should be easily identifiable.

Please refer to the Oracle® Servers X7-2 and X7-2L Installation Guide for additional appliance specifications and detailed rackmounting instructions: https://docs.oracle.com/cd/E72435_01/html/E72440/index.html.

Network Deployment Options

Before getting started, it is important to determine how the Oracle Talari D2000 will be deployed.

> **Note:**
>
> When considering deployment options, please note that the bypass pairs will default to Fail-To-Block until configured otherwise.

Example instructions for some of the most common deployment scenarios are provided below:

Router (Gateway, Fail to Block)

The Oracle Talari D2000 is deployed as the WAN gateway for the site, and bypass pair is configured as Fail-To-Block. Use this option if you plan to use the Talari Appliance as the edge device for the site.

Layer 2 Fail-To-Wire (Overlay)

The Oracle Talari D2000 is deployed on the LAN side of the gateway, and bypass pair is configured as Fail-To-Wire. Use this option if you prefer to retain existing edge devices or plan to install an alternative edge device on the WAN side of the Talari Appliance.

MPLS & Internet Hybrid

The Oracle Talari D2000 is deployed as an overlay for MPLS while performing routing/firewall capabilities for internet links. Use this option if recommended by your Sales Architect, or if you have an MPLS/Internet hybrid network and will not be using the CE Router Replacement functionality of Oracle SD-WAN Edge.

Other Options

There are other deployment options, and our Talari Implementation team members will assist you with planning and deploying your new appliance.

Installation Option: Manual Install

For use with Oracle Talari D2000 as a Router (Gateway, Fail to Block), Layer 2 Fail to Wire (Overlay), MPLS and Internet Hybrid

Manual Install Site Deployment Criteria

Manual (Legacy) Install requires physical access to the appliance. The end user will require a PC which can be connected to the console port of the Talari Appliance. The console port connects the user to the Oracle ILOM command line interface. Cable management, LAN, and WAN ports according to the Talari configuration for site.

Pre-Deployment Requirements

The network administrator must have an active configuration which includes a client package for this site running on the NCN. An appropriate IP address, subnet mask, and gateway for the management interface should be provided for the on-site user to configure.

If the network administrator will have access to the new appliance once an on-site user configures the management interface, proceed to step 10 of Deploying the Talari Appliance. If not, the on-site user will require the client package from the running configuration:

1. From the Web Console of the NCN, navigate to Manage Network, and then Change Management.
2. Download the active package for the new client site.
3. Send the zipped client package to the on-site user who will be deploying the appliance.

Deploying the Talari Appliance

1. Connect the power cords to the Oracle Talari D2000. Connect the other ends to an appropriately grounded power source. The Oracle Talari D2000 will power on automatically.
2. Connect the PC directly to the console port of the Oracle Talari D2000 and console into the appliance using a bit rate of 115200/8-N-1.
3. Log in to Oracle ILOM as an Administrator. To enable first time login and access to Oracle ILOM, a default Administrator account and its password are provided with the system. To build a secure environment, change the default password (Welcome1) for the default Administrator account (root) after your initial login. You may change the password using the command "set /SP/users/root/ password".*
4. Enter the command "start /HOST/console", confirm, and hit enter again to access the Talari console.
5. Log in to the appliance via the command line. To enable first time login and access to the Talari appliance, a default administrator account and its password are provided with the system. To build a secure environment, change the default password (talari) for the default Administrator account (talariuser) after your initial login.
6. Enter the command "tcon" and wait for the prompt to return.
7. Enter the command "management_ip".

8. Stage the IP Address, Subnet Mask, and Gateway IP Address for the Talari as provided by the network administrator using the command "set interface <ip address> <subnet mask> <gateway>". Review the staged settings, then enter the "apply" command to activate.
9. Disconnect from the console. If the network administrator will be configuring the appliance, no further action is required.
10. To apply the configuration package, navigate to the Talari management IP in a web browser and log in to the Talari web console using the credentials given above. Select Configuration > Local Change Management from the left-hand menu.
11. Click Browse and select the .zip package provided by your network administrator, then click Upload.
12. When the upload is complete, click Next to proceed to activation.
13. Click Activate Staged to complete the process.
14. Once the activation process is complete, navigate to Manage Appliance > Enable/Disable Services and enable the Talari service.

ASR for Oracle Talari

Oracle Talari platforms run on Oracle X7-2 hardware, so customers can enable Auto Service Requests (ASR) to automatically generate a service request in case of hardware faults. See Oracle Auto Service Request for a summary of the benefits of ASR.

ASR connects to Oracle Support over the ILOM port, which is disabled by default. Customers who want to enable ASR for their Oracle Talari hardware must first enable the ILOM port and ensure it can reach https://transport.oracle.com.

Enable ASR for Oracle Talari

1. Remove the port plug on the SER MGT port.
2. Connect your PC directly to the SER MGT of the Oracle Talari D2000.
3. Connect with a terminal program with the following settings: 115200/8-N-1.
4. Connect the ILOM port to a management network with internet access.
5. Log in to Oracle ILOM as an administrator.
6. Enable the ILOM interface.

   ```
   set /SP/network state=enabled
   ```

   See Modify Network Settings for more information.
7. Navigate to the asr directory.

   ```
   cd /SP/clients/asr
   ```

8. Set a value for the endpoint.

   ```
   set /SP/clients/asr endpoint=https://transport.oracle.com
   ```

9. Set a value for your Oracle SSO username and password.

```
set /SP/clients/asr username=<SSO user> password=<SSO Password>
```

10. Enable the ASR client state.

```
set /SP/clients/asr state=enabled
```

11. See How To Manage and Approve Pending Oracle Auto Service Request (ASR) Assets In My Oracle Support to complete the registration.
12. Verify the registration completed successfully.
    - Check the status.

```
show /SP/clients/asr

 /SP/clients/asr
    Targets:

    Properties:
        endpoint = https://transport.oracle.com
        password = *****
        proxy-host = (none)
        proxy-password = *****
        proxy-user = (none)
        send-event = (Cannot show property)
        state = enabled
        status = Registered Mon Nov 9 16:05:21 2019
        username = firstname.lastname@oracle.com
```

    - Send a test event.

```
set /SP/clients/asr send-event=test
```

    - Sent a heartbeat.

```
set /SP/clients/asr send-event=heartbeat
```

See Oracle ASR Documentation for more information.