Oracle Talari E500 Installation Guide

Purpose

This guide will help you set up your E500 using typical deployment scenarios.

E500 Overview

The E500 is an extension of the E-series of Oracle Talari Appliances and intended for use in mid-sized branch or regional offices that require higher performance and port density than the E100 provides. The E500 supports WAN Optimization and Easy 1st Install.

Quick Reference

Related Publications

The following documents are available:

- Talari APN 7.3 P3 Release Notes
- Talari APN 7.3 New Features Guide

Legal Notes

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 (CAS) can assist you with My Oracle Support registration.

Call the CAS 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

In the event of a critical service situation, emergency response is offered by the Customer Access Support (CAS) 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. The emergency response provides immediate coverage, automatic escalation, and other features to ensure that the critical situation is resolved as rapidly as possible.

A critical situation is defined as a problem with the installed equipment that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical situations affect service and/or system operation resulting in one or several of these situations:

- A total system failure that results in loss of all transaction processing capability
- Significant reduction in system capacity or traffic handling capability
- Loss of the system's ability to perform automatic system reconfiguration
- Inability to restart a processor or the system
- Corruption of system databases that requires service affecting corrective actions
- Loss of access for maintenance or recovery operations
- Loss of the system ability to provide any required critical or major trouble notification

Any other problem severely affecting service, capacity/traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with Oracle.

Locate Product Documentation on the Oracle Help Center Site

Oracle Communications customer documentation is available on the web at the Oracle Help Center (OHC) site, http://docs.oracle.com. You do not have to register to access these documents. Viewing these files requires Adobe Acrobat Reader, which can be downloaded at http://www.adobe.com.

1. Access the Oracle Help Center site at http://docs.oracle.com.
2. Click Industries.
3. Click the Oracle Communications link.

   Under the SD-WAN header, select a product.
4. Select the Release Number.

   A list of the entire documentation set for the selected product and release appears.
5. To download a file to your location, right-click the PDF link, select Save target as (or similar command based on your browser), and save to a local folder.

What's Included

1x Blue Management Cable

2x Green LAN Cables

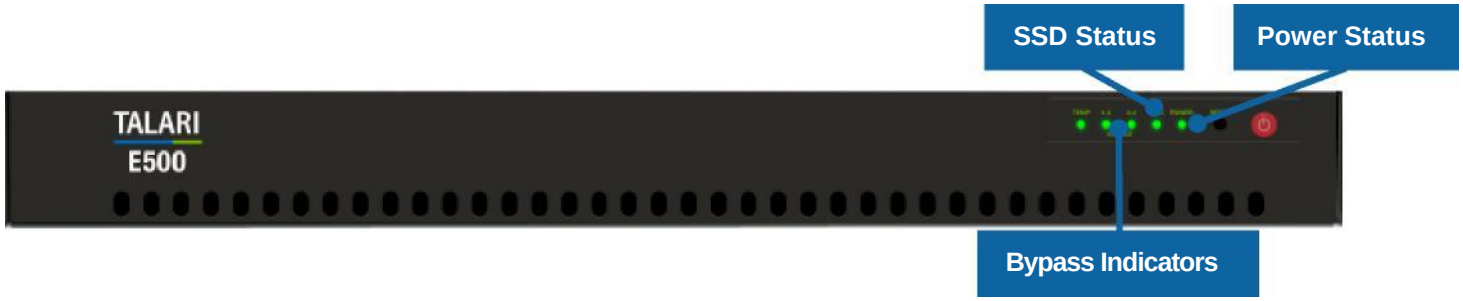
1x Red Crossover Cable

2x Orange WAN Cables

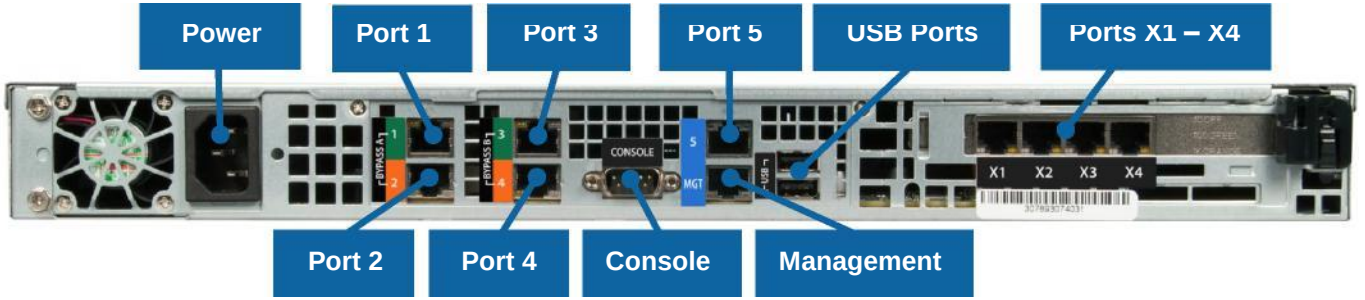
1x Power Cord

1x Console Cable

E500 Front Panel



Bypass Indicators: Blinking Green = Interfaces not in bypass mode; Off = Interfaces in bypass mode
SSD Status: Flickering Yellow = Disk Activity
Power Status: Green = Power On



E500 Back Panel

Power: A/C Power Connector
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)
Console: DB9 console port (115200/8-N-1)
Port 5: Auxiliary management port, used for Manual Install
Management: Management port
USB Ports (2): For connecting keyboard and mouse
Ports X1 – X4: Gigabit Ethernet ports (non-bypass)

Unpacking and Inspection Checklist

- ☐ Remove E500 appliance and accessories from box.
- ☐ Remove E500 from plastic wrapping.
- ☐ Inspect appliance for signs of damage.
- ☐ Ensure all accessories are included. (See *What's Included* section for complete list.)

Rack Mounting

Safety Recommendations

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.

Network Deployment Options

Before getting started, it is important to determine how the E500 will be deployed. When considering deployment options for the E500, 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:

E500 as a Router (Gateway, Fail to Block)

Description: The E500 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. Proceed to the pages below based on your installation method:

Easy 1st Install: Page 9
Manual Install: Page 10

E500 as Layer 2 Fail-To-Wire (Overlay)

Description: The E500 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. Proceed to the pages below based on your installation method:

Easy 1st Install: Page 9
Manual Install: Page 10

E500 with MPLS & Internet Hybrid

Description: The E500 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 the Talari APN. Proceed to the pages below based on your installation method:

Easy 1st Install: Page 9
Manual Install: Page 10

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: Easy 1st Install

For use with E500 as a Router (Gateway, Fail to Block), Layer 2 Fail to Wire (Overlay), MPLS & Internet Hybrid

Easy 1st Install Site Deployment Criteria:

NCN:

- Easy 1st Install can be used once the Network Control Node (NCN) has been set up for your network.
- Active Appliance Package: The NCN must be running an active configuration which includes the E500 for the site being installed.

Client Site Connectivity:

- Internet, DHCP, and DNS connectivity to the management interface are required to use Easy 1st Install. If one or more are not available, please see the instructions for manual installation. If the management interface is connected to the LAN segment, communication with the public Internet will be blocked and Easy 1st Install will fail.
- Cable the LAN and WAN ports in accordance with the Talari configuration for the site.

Use NCN to Upload Client Package to Registration Server:

1. Log in to the Web Console of the NCN.
2. Navigate to **Configuration > Easy Install.**
3. Locate the Site name of the E500 being deployed.
4. Click the Edit pencil to open the Set Serial Number window.
5. Enter the serial number of the E500 being deployed and click the Set Serial Number button. (Refer to Page 4 for assistance locating the serial number.)
6. Observe the **Upload/Activate** column. Click the **Upload/Activate** text when it appears.
7. Continue to observe the **Upload/Activate** column. Once the text reads **Upload Complete**, proceed to the next section.

Deploy the Talari Appliance:

8. Cable the E500 with the provided cables.
9. Ensure that the appliance management interface is cabled for Internet connectivity.
10. Connect the power cord to the E500. Connect the other end to an appropriately grounded power source. The E500 will power on automatically.
11. The E500 will begin the Easy 1st Install process. Please allow up to ten minutes for the process to complete. (From the NCN Web Console, observe the **Configuration > Easy Install** page for status updates during installation.)
12. Once the Easy 1st Install process has completed, the Talari service will automatically be enabled.
13. To access the Management IP address of the E500 via the conduit after deployment is complete, move the blue management cable to the LAN switch.

Installation Option: Manual Install

For use with E500 as a Router (Gateway, Fail to Block), Layer 2 Fail to Wire (Overlay), MPLS & 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 directly to port 5 of the Talari Appliance via an Ethernet cable. Cable LAN and WAN ports in accordance with 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 4 of Deploying the Talari Appliance. If not, the on-site user will require the client package from the running configuration:

14. From the Web Console of the NCN, navigate to **Manage Network > Change Management.**
15. Download the active package for the new client site.
16. Send the zipped client package to the on-site user who will be deploying the appliance.

Deploying the Talari Appliance:

1. Connect the power cord to the E500. Connect the other end to an appropriately grounded power source. The E500 will power on automatically.
2. Connect your PC directly to port 5 of the E500.
3. From the PC connected to the Talari:
   a. Change the IP address of your PC to 192.168.0.1.
   b. Change the Subnet Mask of your PC to 255.255.255.252.
   c. Open a web browser and go to the Talari web console at 192.168.0.2. The username is *talariuser* and the default password is *talari*. **We strongly recommend changing the default password as soon as possible.**
   d. Select **Manage Appliance > Local Network Settings** from the pull-down menu.
   e. Set the IP Address, Subnet Mask, and Gateway IP Address for the Talari as provided by your network administrator.
   f. Click Change Settings. If your network administrator will be applying the configuration package, you may now restore the original network settings on your PC.
4. To apply the configuration package, navigate to **Manage Appliance > Local Change Management**.
5. Click Browse and select the .zip package provided by your network administrator, then click Upload.
6. When the upload is complete, click Next to proceed to activation.
7. Click Activate Staged to complete the process.
8. Once the activation process has completed, navigate to **Manage Network > Service/WAN Links** and enable the Talari service.
9. You may now restore the original network settings on your PC.