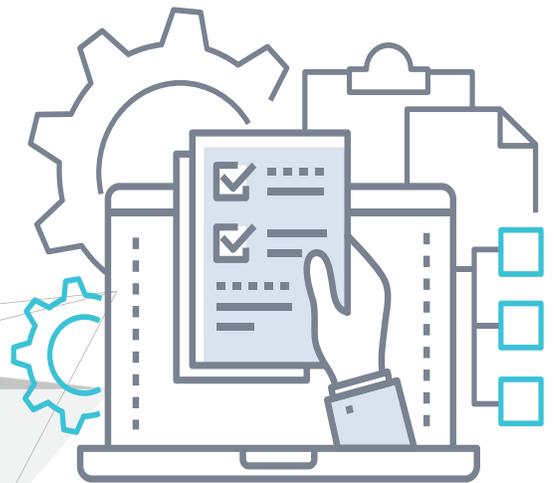


User Guide for Distributed Enterprise Manager

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Contents

Chapter 1: Introduction	5
Key Terms	5
Requirements and Considerations	5
Chapter 2: Deploying the Distributed Enterprise Manager	7
Step 1: Install the Distributed Enterprise Manager Server	7
Step 2: Install the Distributed Enterprise Manager Client	7
Step 3: Add Distributed Appliances	8
Chapter 3: Managing Distributed Appliances	9
Opening Management Connections	9
Closing Management Connections	9
Editing Customer and Location information	9
Removing Distributed Appliances	10
Chapter 4: Reports	11
Distributed Appliance Capacity	11
Appliance Customer and Location	11

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Chapter 1: Introduction

The Unitrends Distributed Enterprise Manager is an advanced appliance management tool that operates parallel to Unitrends' standard appliance management feature. For enterprises (such as MSPs) who are tasked with managing large numbers of Unitrends Backup and Recovery Series appliances, the Distributed Enterprise Manager offers simplified central management and near-limitless scalability.

This guide describes how to deploy the Distributed Enterprise Manager and use it to manage your appliances.

Key Terms

The following table defines key terms used in this guide:

Term	Definition
Deployment	The process of installing Distributed Enterprise Manager software and establishing communication between the Distributed Enterprise Manager server and the distributed appliances it is slated to manage.
Distributed Enterprise Manager server	This term refers to the Unitrends appliance that manages distributed appliances, as well as the software that enables this functionality.
Distributed Enterprise Manager client	The software that enables a Unitrends Backup or Recovery Series appliance to be managed by a Distributed Enterprise Manager server.
Distributed appliance	An appliance that is running the Distributed Enterprise Manager client.

Requirements and Considerations

The following requirements must be met to ensure successful deployment and operation of the Distributed Enterprise Manager:

- Both the Distributed Enterprise Manager server and its distributed appliances must be running Unitrends Version 9.2 or newer.
- Ports 5672 and 5671 on the Distributed Enterprise Manager server must be open to inbound SSL traffic.

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Chapter 2: Deploying the Distributed Enterprise Manager

Deployment of the Distributed Enterprise Manager consists of installing Distributed Enterprise Manager software and establishing communication between the Distributed Enterprise Manager server and the distributed appliances it is slated to manage.

The following steps explain how to deploy the Distributed Enterprise Manager:

- "Step 1: Install the Distributed Enterprise Manager Server"
- "Step 2: Install the Distributed Enterprise Manager Client" on page 7
- "Step 3: Add Distributed Appliances " on page 8

Step 1: Install the Distributed Enterprise Manager Server

Use this procedure to install the Distributed Enterprise Manager on the Unitrends Backup or Recovery Series appliance you wish to use to manage your distributed appliances.

To install the Distributed Enterprise Manager server

- 1 Log in to your appliance as a root user via SSH.
- 2 Enter this command:

```
[root@UEB] # dem_setup.sh server
```

- 3 Once DEM server has been installed, terminate the SSH session.

Step 2: Install the Distributed Enterprise Manager Client

Use this procedure to install the Distributed Enterprise Manager client on all Unitrends Backup and Recovery Series appliances you wish to manage as distributed appliances.

To install the Distributed Enterprise Manager client

- 1 Log in to your appliance as a root user via SSH.
- 2 Enter the following command, where <dem_server_ip> is the IP address of the Unitrends appliance where you installed Distributed Enterprise Manager server:

```
[root@UEB] # dem_setup.sh client <dem_server_ip>
```

- 3 Once DEM client has been installed, terminate the SSH session.

Step 3: Add Distributed Appliances

To establish communication between your Distributed Enterprise Manager Server and your distributed appliances, you must add your distributed appliances to your Distributed Enterprise Manager server.

To add a distributed appliance to the Distributed Enterprise Manager server

- 1 From the UI of your Distributed Enterprise Manager server, select **Configure > Distributed Appliances > Add Appliance**.
- 2 Enter the following information:
 - Appliance Hostname
 - Asset Tag
 - Customer
For further information, see "[Editing Customer and Location information](#)" on page 9.
 - Location
For further information, see "[Editing Customer and Location information](#)" on page 9.
- 3 Click **Save**.

Chapter 3: Managing Distributed Appliances

The following procedures explain how to perform basic distributed appliance management tasks.

Opening Management Connections

Management connections enable you to manage distributed appliances just as you would by logging in to them directly.

To open a management connection

- 1 From the Distributed Enterprise Manager server UI, select **Configure > Distributed Appliances**.
- 2 Click the check box next to the distributed appliance you want to connect to.
- 3 Click **Manage**.
- 4 Click **Yes**.
- 5 Click the blue link to access the distributed appliance in a new browser window.

Closing Management Connections

Note: The management connection will remain open even if the browser window you are viewing it through is closed.

To close a management connection

- 1 From the Distributed Enterprise Manager server UI, select **Configure > Distributed Appliances**.
- 2 Click the check box next to the distributed appliance you want to disconnect from.
- 3 Click **Manage**.
- 4 Click **Close Tunnel**.
- 5 Click **Ok**.

Editing Customer and Location information

You can make your distributed appliances easier to identify by labeling them with customer and location information.

To add a customer

- 1 From the Unitrends UI, select **Configure > Distributed Appliances > Manage Customers**.
- 2 Click **Add**.
- 3 Enter a Customer Name.
- 4 Click **Save**.

To add a location to a customer

- 1 From the Unitrends UI, select **Configure > Distributed Appliances > Manage Customers**.
- 2 Click the check box next to the customer you want to assign a location to.
- 3 Click **Edit**.
- 4 Click **Add**.
- 5 Enter location information.
- 6 Click **Save**.

To assign customer and location information to a distributed appliance

- 1 From the Unitrends UI, select **Configure > Distributed Appliances**.
- 2 Click the check box next to the distributed appliance you want to assign a customer to.
- 3 Click **Edit**.
- 4 Click a Customer and a Location.
- 5 Click **Save**.

Removing Distributed Appliances

To remove a distributed appliance

- 1 From the Unitrends UI, select **Configure > Distributed Appliances**.
- 2 Click the check box next to the distributed appliance you want to remove.
- 3 Click **Remove**.
- 4 Click the checkbox.
- 5 Click **Remove Appliance**.

Chapter 4: Reports

The Distributed Enterprise Manager adds two new report types, which you can view by logging in to your Distributed Enterprise Manager server and selecting **Reports > Distributed**.

For further information on reports, see [Working With Reports](#) in the Administrator Guide for Recovery Series and Unitrends Backup.

Distributed Appliance Capacity

The Distributed Appliance Capacity report displays the total protected capacity of your distributed appliances and how that capacity has changed over a specified period of time.

Appliance Customer and Location

The Appliance Customer and Location report displays a list of your distributed appliances and their respective customers and locations.

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