

Reports



The following sections provide information on Novell® ZENworks® Linux Management - Dell Edition reporting features:

- ♦ [Chapter 37, “Reports Overview,” on page 457](#)
- ♦ [Chapter 38, “Generating ZENworks Reports,” on page 459](#)

Reports can contain details from a large volume of inventory, packaging, and other device or bundle information. You can create new reports, edit existing reports, delete reports, or generate one or multiple reports simultaneously. You can create folders to organize and store reports based on your own criteria.

The Reports page, accessed from the ZENworks® Control Center, displays reports and folders. A number of standard bundle, Dell, and device reports are included with ZENworks, and you can easily modify these and define your own. Reports are generated in HTML. After a report is generated, it can be printed, saved, or exported to XML or comma-separated value (CSV) format. When you create reports, the system stores them as objects in Novell® eDirectory™.

The following reports are provided with ZENworks Linux Management - Dell Edition:

- ◆ [Section 37.1, “Bundle Reports,” on page 457](#)
- ◆ [Section 37.2, “Dell Reports,” on page 457](#)
- ◆ [Section 37.3, “Device Reports,” on page 458](#)

37.1 Bundle Reports

The following bundle reports are provided with ZENworks Linux Management - Dell Edition:

Table 37-1 *Bundle Reports*

Report Name	Description
Bundle Delivery Failure	Lists bundle delivery failures per device.
Bundle Delivery in the Past 24 Hours	Displays the previous day's bundle deliveries.
Bundle Delivery Information per Device	Lists information consisting of error, warning, and success counts, as well as the last bundle delivery message and status.
Last Bundle Delivery per Device	Displays the last bundle delivery that took place per device.

37.2 Dell Reports

The following Dell reports are provided with ZENworks Linux Management - Dell Edition:

Table 37-2 *Dell Reports*

Report Name	Description
Devices Not Having Valid Dell Update Package Bundles (template)	Use this template to create a validation report for Dell Update Package Bundles.

Report Name	Description
Devices Not Having Valid RPM Package Bundles (template)	Use this template to create a validation report for RPM Package Bundles.
Installed Dell Applications Per All Devices	Lists all devices and the installed Dell applications on each device.
Installed Dell Applications Per Model	Lists the installed Dell applications for a single model.
List of Bundled Dell Update Packages	Lists all Dell Update Package Bundles and the Dell Update Packages contained in each bundle.

37.3 Device Reports

The following device reports are provided with ZENworks Linux Management - Dell Edition:

Table 37-3 *Device Reports*

Report Name	Description
Device Errors in the Past 24 Hours	Lists all device errors in the past 24 hours.
Device Errors in the Past Week	Lists all device errors in the past week.
Device Disk Usage	Lists disk usage for all devices.
Devices Inactive for the Past 90 Days	Lists all devices that have been inactive for the past 90 days.
Devices Registered in the Past 24 Hours	Lists all devices registered in the past 24 hours.
Devices Registered in the Past Week	Lists all devices registered in the past week.

This section includes the following topics:

- ◆ Section 38.1, “Creating a Folder,” on page 459
- ◆ Section 38.2, “Creating a Report,” on page 460
- ◆ Section 38.3, “Organizing Reports and Folders,” on page 464
- ◆ Section 38.4, “Modifying Report Details,” on page 464
- ◆ Section 38.5, “Generating Reports,” on page 465
- ◆ Section 38.6, “Exporting Reports,” on page 466
- ◆ Section 38.7, “Resetting Default Reports,” on page 467

38.1 Creating a Folder

You create folders to store ZENworks® reports.

- 1 In the ZENworks Control Center, click the *Reports* tab.
- 2 Click *New > Folder*.
- 3 Specify the name and folder location.

You can browse to select an existing folder in which to store the new folder.

- 4 Enter a report description, if necessary, then click *OK*.

New Folder

Name: *
Hard Disk Reports

Folder: *
/Reports

Description:
Contains reports for hard disk inventory.

Fields marked with a blue asterisk are required.

OK Cancel

The system displays the new folder on the Reports page, as follows:


Reports		
New ▾ Edit ▾ Delete Generate Action ▾		
<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	 Bundle Reports (Details)	Folder
<input type="checkbox"/>	 Dell Reports (Details)	Folder
<input type="checkbox"/>	 Device Reports (Details)	Folder
<input type="checkbox"/>	 Hard Disk Reports (Details)	Folder

38.2 Creating a Report

ZENworks allows you to define the devices for which the system generates report data, and to customize how the information is displayed. After you create the report, you can generate the report and view or print it in formats such as XML, HTML, or CSV (comma-separated values). You can also create new folders to store multiple reports that you can run simultaneously.


- 1 In the ZENworks Control Center, click the *Reports* tab.
- 2 Click *New > Report*.

[Reports](#) > [Create New Report](#)

Create New Report	Help
 Step 1: Report Information	

Specify the name, and description of the new report:

Report Name: *

Folder: * 

Report Description:

Fields marked with a blue asterisk are required.

[<< Back](#) [Next >>](#) [Cancel](#)

- 3 Use the Report Information page to specify the following information:
Report name: Specify a report name.

Folder: Specify the folder name, or browse to locate the folder in which you want to store the report. When you browse to locate a folder, the system displays the Select Folder dialog box. After you locate the desired folder, click the *Select* icon to select the folder, then click *OK*.

Report description: Specify a report description. The system displays this description beneath the report name in the generated report.

4 Click *Next*.

5 Use the Columns page to add and sort the columns that you want to display on the report.

[Reports](#) > **Create New Report**

The screenshot shows the 'Create New Report' dialog box, specifically the 'Step 2: Columns' tab. The dialog has a title bar with 'Create New Report' and 'Bundle Report'. Below the title bar, it says 'Step 2: Columns'. The main area contains the instruction: 'Add column(s) to show in the report and identify the column(s) to sort by:'. There is a list of columns with 'DUP Bundle Description' selected. An 'Add' button is next to the list. Below the list, there are two columns in a row: 'DUP Bundle Hidden' and 'DUP Bundle Description'. At the bottom, there are two sets of dropdown menus for 'Primary Sort' and 'Secondary Sort', both set to 'None' and 'Ascending'. At the very bottom, there are three buttons: '<< Back', 'Next >>', and 'Cancel'.

Columns: Select a column, then click *Add*. You can select a group of items by holding the Shift key and clicking the first and last items in the group, or you can select several items by holding the Ctrl key and clicking each item. The system displays the items as you add them. Use the ZENworks interface to sort or remove the columns.

Primary and secondary sort: Use the drop-down menus to specify a primary and secondary sort, if needed. You can sort by a column in ascending or descending order.

6 Click *Next*.

[Reports](#) > [Create New Report](#)

Create filter rule(s) to limit data showing in this report:

Add Filter **Add Filter Set** **Delete**

Combine Filters using: **or** Filter Sets will be combined using: **AND**

Show data matching the filter rules:

-Select- **Equal to**

<< Back **Next >>** **Cancel**

Use the Filters page to create filter rules to manipulate the amount of queried data you want to display on the report. Filter sets enable you to create sets of individual filters, and evaluate them with another set of individual filters. The system uses Boolean logic (And, Or, and Not operators) that determines how to process filters and filter sets. Individual filters can be grouped by And or Or based on how you select the conjunction operator. If you select And to combine filters within filter sets, then the filter sets will be Or, and vice versa. Filter sets can be grouped using Or or And. If you have multiple conditions that must be met, group them using individual filter sets with an And condition.

For example, you can add a filter to report inventory data for a particular *BIOS Name*, then add a second filter to further limit (or expand) the results, such as the *BIOS Manufacturer*. You then might add another filter and use the Not operator to eliminate a certain *BIOS Release Date* value from the search.

7 Click *Add Filter* to create a filter.

Use the drop-down menu to specify whether to combine filters using And or Or. This selection also controls how the system combines filter sets. Depending on the item you select for the filter, ZENworks provides a variety of filtering criteria, such as:

- ◆ Alphanumeric (equal to / contains)
- ◆ Date and time (before, after, relative, non-existent)
- ◆ Size (<, >, =, and so on)
- ◆ True/false
- ◆ Has/doesn't have

For example, the following filter sets return all devices with 10 GB hard disk drives containing less than 2 GB of free space:

Physical Disk Free Size(bytes) **<** **2147483648**

Physical Disk Capacity(bytes) **<** **10737418240** **or**

- 8 Click *Add Filter Set* to create a new set of filters, then click *Add Filter* to add filters to the new set.

For example, the following filter set returns all devices with more than 2 GB of free space that are not made by the specified manufacturer:

<input type="checkbox"/>		Physical Disk Free Size(bytes)	<	2147483648
AND				
<input type="checkbox"/>	NOT	Physical Disk Manufacturer	=	Disk Maker

New filters are always added to the newest filter set.

To delete a filter, select a filter's check box, then click *Delete*.

- 9 Click *Next*.

Use the Summary page to review the report information.

- 10 Click *Finish* to create the new report, then click *OK* on the Results page to return to the Reports page.

Novell® recommends that you use the *Message From This Type Object* column only in conjunction with other message and device columns and filters. If you add other types of columns or filters, the message displayed in this column may be inaccurate. Known exceptions of device columns and filters that also cause this inaccuracy are:

- ◆ Device Code Page
- ◆ Device Virtual Memory
- ◆ Device Visible Memory

38.2.1 Using Templates to Create Dell Reports

ZENworks Linux Management - Dell Edition includes two report templates you can use to create reports:

- ◆ Devices Not Having Valid Dell Update Package Bundles
- ◆ Devices Not Having Valid RPM Package Bundles

Because these are templates, you must modify them before you can generate a report.

- 1 In the ZENworks Control Center, click the *Reports* tab.
- 2 Click *Dell Reports*.
- 3 Click the check box next to the template you want to modify.
- 4 Click *Edit > Copy*.
- 5 Specify a name for the report and click *OK*.
- 6 Click the report name you just created.
- 7 Modify the report. See [Section 38.4, "Modifying Report Details,"](#) on page 464.
- 8 Make sure you've properly filled out the filter fields. For the Dell Update Package Bundles report, the *Dell Model*, *Bundle*, and *Version* fields are required; for the Devices Not Having Valid RPM Package Bundles report, the required fields are *Bundle* and *Version*.

- 9 To generate the report, click Generate. To export the report to HTML, CSV, or XML, see [Section 38.6, “Exporting Reports,” on page 466](#).

38.3 Organizing Reports and Folders

You can simplify report management and generation by organizing the report list and storing reports in separate folders.

- ◆ [Section 38.3.1, “Editing the Reports List,” on page 464](#)
- ◆ [Section 38.3.2, “Deleting a Report or Folder,” on page 464](#)

38.3.1 Editing the Reports List

To edit the reports list:

- 1 In the ZENworks Control Center, click the *Reports* tab.
- 2 Select the report or folder check box, then click *Reports > Edit*.

The following table describes each task:

Table 38-1 *Editing Options*

Task	Description
Rename	Displays the Rename Report or the Rename Folder dialog box. Specify a new name for the object.
Copy	Displays the Copy Report dialog box. You can specify a new name for the copied report. You cannot copy folders.
Move	Displays the Move Report dialog box. Select the folder to which the report should be moved.

38.3.2 Deleting a Report or Folder

To delete a report or folder

- 1 In the ZENworks Control Center, click the *Reports* tab.
- 2 Select the report or folder check box, then click *Reports > Delete*.

This permanently removes the report from the database.

38.4 Modifying Report Details

- 1 In the ZENworks Control Center, click the *Reports* tab.
- 2 Select a report.
- 3 To modify the settings of an existing report, complete any of the following fields or options:

Field	Description
<i>General</i>	Revise the report description.

Field	Description
<i>Columns</i>	<p>Add, delete, or change the column layout and sorting details of the report. See Section 38.2, “Creating a Report,” on page 460 for more information about adding columns to a report.</p> <p>Novell recommends that you use the Message From This Type Object column only in conjunction with other message and device columns and filters. If you add other types of columns or filters, the message displayed in this column might be inaccurate. Known exceptions of device columns and filters that also cause this inaccuracy are</p> <ul style="list-style-type: none"> ◆ Device Code Page ◆ Device Virtual Memory ◆ Device Visible Memory
<i>Filters</i>	Revise, add, or delete the report filters. See Section 38.2, “Creating a Report,” on page 460 for more information about naming, formatting, and filtering.
<i>Generate</i>	Runs the report based on the settings displayed on the page. See Section 38.5, “Generating Reports,” on page 465 for more information.
<i>Apply</i>	Saves the new settings.
<i>Reset</i>	Resets the report to its original settings.

4 To generate the report, click *Generate*.

38.5 Generating Reports

You can generate an existing report, or generate multiple reports simultaneously. After the system displays the report, you can print the information or export and view the data in HTML, CSV, or XML formats.

- 1 In the ZENworks Control Center, click the *Reports* tab.
- 2 To generate a report, select the report’s check box, then click *Generate*.
or
- 3 To generate a batch of reports, select the report folder’s check box, then click *Generate*.
You can also select individual reports and run them simultaneously.

The following graphic is a sample of a generated ZENworks report.

Figure 38-1 Report Generation Page

Page: 1 of 1
 Export to: [HTML](#) [CSV](#) [XML](#)

Devices Disk Usage

A list of all devices disk usage.

Device Alias	Logical Disk File System Type	Logical Disk Label	Logical Disk File System Size	Logical Disk Available Space
distributor-2lx	tmpfs	tmpfs	528.79 MB	528.78 MB
	reiserfs	/dev/sda4	158.84 GB	156.21 GB
	ext2	/dev/sda2	15.92 MB	8.65 MB
	iso9660	/home/avenger-20060327a.iso	605.36 MB	0 KB

Record Count: 1
Tuesday, April 4, 2006 9:42:40 AM MDT

38.6 Exporting Reports

There are two ways to export a report to HTML, CSV, or XML: you can generate the report and then export it, or you can export it directly without generating it first.

To generate the report and then export it:

- 1 Generate a report as described in [Section 38.5, “Generating Reports,”](#) on page 465.
- 2 Click *HTML*, *CSV*, or *XML*.

To export a report directly:

- 1 In the ZENworks Control Center, click the *Reports* tab.
- 2 Select the check box of the report you want to export. (This feature is only available for single items.)
- 3 Click *Action* and select the desired format.

Table 38-2 Output Types

Output Type	Description
HTML	The system displays the report data in the default browser. However, you can choose another program to open this document, if needed. The HTML styles are embedded in the report output.
CSV	The system displays the information as CSV (comma-separated values), allowing you to view the report data in a spreadsheet.
XML	When you view a report in XML, the system displays the information using rows, rather than in table format. You can view this data in any application that can display XML.

38.7 Resetting Default Reports

Click *Reset Default Reports* to reset the default reports to their original settings when you installed ZENworks. The default reports are the bundle and device reports that come with the installed software.