

openSUSE

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GNOME User Guide



GNOME User Guide

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About This Guide

This manual introduces you to the GNOME graphical desktop environment as implemented in openSUSE®, and shows you how to configure it to meet your personal needs and preferences. It also introduces you to several programs and services. It is intended for users who have some experience using a graphical desktop environment such as Macintosh*, Windows*, or other Linux desktops.

The manual is divided into two parts:

Introduction

Get to know your GNOME desktop and learn how to cope with basic and daily tasks using the central GNOME applications, as well as various small utilities. Get an overview of the possibilities that GNOME offers for modifying and individualizing the desktop according to your needs and wishes. Learn how to use assistive technologies to improve accessibility in case of vision or mobility impairment.

Internet Connectivity, Files and Resources

Find vital information concerning the management and exchange of data on your system: how to share files on the network and how to use an integrated collaboration environment, how to effectively search for data, and how to manage printers and back up your data.

Many chapters in this manual contain links to additional documentation resources. These include additional documentation that is available on the system as well as documentation available on the Internet.

For an overview of the documentation available for your product and the latest documentation updates, refer to <http://www.novell.com/documentation> or to the following section.

1 Available Documentation

We provide HTML and PDF versions of our books in different languages. The following manuals for users and administrators are available on this product:

Start-Up (↑*Start-Up*)

Guides you through the installation and basic configuration of your system. For newcomers, the manual also introduces basic Linux concepts such as the file system, the user concept and access permissions and gives an overview of the features openSUSE offers to support mobile computing. Provides help and advice in troubleshooting.

KDE User Guide (↑*KDE User Guide*)

Introduces the KDE desktop of openSUSE. It guides you through using and configuring the desktop and helps you perform key tasks. It is intended mainly for users who want to make efficient use of KDE as their default desktop.

GNOME User Guide (page 1)

Introduces the GNOME desktop of openSUSE. It guides you through using and configuring the desktop and helps you perform key tasks. It is intended mainly for end users who want to make efficient use of GNOME desktop as their default desktop.

Application Guide (↑*Application Guide*)

Learn how to use and configure key desktop applications on openSUSE. This guide introduces browsers and e-mail clients as well as office applications and collaboration tools. It also covers graphics and multimedia applications.

Reference (↑*Reference*)

Gives you a general understanding of openSUSE and covers advanced system administration tasks. It is intended mainly for system administrators and home users with basic system administration knowledge. It provides detailed information about advanced deployment scenarios, administration of your system, the interaction of key system components and the set-up of various network and file services. openSUSE offers.

Security Guide (↑*Security Guide*)

Introduces basic concepts of system security, covering both local and network security aspects. Shows how to make use of the product inherent security software like Novell AppArmor (which lets you specify per program which files the program

may read, write, and execute) or the auditing system that reliably collects information about any security-relevant events.

In addition to the comprehensive manuals, several quick start guides are available:

KDE Quick Start (↑*KDE Quick Start*)

Gives a short introduction to the KDE desktop and some key applications running on it.

GNOME Quick Start (↑*GNOME Quick Start*)

Gives a short introduction to the GNOME desktop and some key applications running on it.

Installation Quick Start (↑*Installation Quick Start*)

Lists the system requirements and guides you step-by-step through the installation of openSUSE from DVD, or from an ISO image.

Novell AppArmor Quick Start

Helps you understand the main concepts behind Novell® AppArmor.

Find HTML versions of most product manuals in your installed system under `/usr/share/doc/manual` or in the help centers of your desktop. Find the latest documentation updates at <http://www.novell.com/documentation> where you can download PDF or HTML versions of the manuals for your product.

2 Feedback

Several feedback channels are available:

Bugs and Enhancement Requests

To report bugs for a product component, or to submit enhancement requests, please use <https://bugzilla.novell.com/>. For documentation bugs, submit a bug against the component *Documentation* for the respective product.

If you are new to Bugzilla, you might find the following articles helpful:

- http://en.opensuse.org/openSUSE:Submitting_bug_reports
- http://en.opensuse.org/openSUSE:Bug_reporting_FAQ

User Comments

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Use the User Comments feature at the bottom of each page in the online documentation or go to <http://www.novell.com/documentation/feedback.html> and enter your comments there.

3 Documentation Conventions

The following typographical conventions are used in this manual:

- `/etc/passwd`: directory names and filenames
- *placeholder*: replace *placeholder* with the actual value
- `PATH`: the environment variable `PATH`
- `ls, --help`: commands, options, and parameters
- `user`: users or groups
- `Alt, Alt + F1`: a key to press or a key combination; keys are shown in uppercase as on a keyboard
- *File, File > Save As*: menu items, buttons
- *Dancing Penguins* (Chapter *Penguins*, ↑Another Manual): This is a reference to a chapter in another manual.

4 About the Making of This Manual

This book is written in Novdoc, a subset of DocBook (see <http://www.docbook.org>). The XML source files were validated by `xmllint`, processed by `xsltproc`, and converted into XSL-FO using a customized version of Norman Walsh's stylesheets. The final PDF is formatted through XEP from RenderX. The open source tools and the environment used to build this manual are available in the package `susedoc` that is shipped with openSUSE.

5 Source Code

The source code of openSUSE is publicly available. To download the source code, proceed as outlined under http://www.novell.com/products/suselinux/source_code.html. If requested we send you the source code on a DVD. We need to charge a \$15 or €15 fee for creation, handling and postage. To request a DVD of the source code, send an e-mail to sourcedvd@suse.de [<mailto:sourcedvd@suse.de>] or mail the request to:

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6 Acknowledgments

With a lot of voluntary commitment, the developers of Linux cooperate on a global scale to promote the development of Linux. We thank them for their efforts—this distribution would not exist without them. Furthermore, we thank Frank Zappa and Pawar. Special thanks, of course, goes to Linus Torvalds.

Have a lot of fun!

Your SUSE Team

Part I. Introduction

Getting Started with the GNOME Desktop

1

This section describes the conventions, layout, and common tasks of the GNOME desktop as implemented in your product.

GNOME is an easy-to-use graphical interface that can be customized to meet your needs and personal preferences. This section describes the default configuration of GNOME. If you or your system administrator modifies the defaults, some aspect might be different, such as appearance or keyboard shortcuts.

1.1 Logging In and Selecting a Desktop

If more than one user account is configured on your computer, generally all users must authenticate—unless *Auto Login* is enabled for a specific user. Auto login lets a user automatically log in to the desktop environment when the system starts. This feature can be enabled or disabled during installation or at any time using the YaST User and Group Management module. For more information, refer to Chapter 8, *Managing Users with YaST* (↑*Reference*). If your computer is running in a network environment and you are not the only person using the machine, you are usually prompted to enter your username and password when you start the system.

The program managing the login process is specific to the desktop environment installed on your system. For GNOME, it is GDM. If the KDE desktop is also installed on your system, it can be KDM.

The GDM login screen has the following items:

Domain Menu

If you authenticate against an Active Directory server, choose the Windows* Domain to which you want to login. For all other authentication methods, choose *Local Login*.

Login Window

Shut Down, *Restart* or *Suspend* your machine or login to the system. Select an existing user from the list or choose *Other...* to manually enter a username. Type in the password and press Enter to login. Once a username is selected or entered, additional menus become available in the panel:

Language Menu

Select a language for your session.

Keyboard Menu

Select a keyboard layout for your session.

Session Menu

Select the desktop to run during your session. If other desktops are installed, they appear in the list.

Display Settings Menu

Change display settings such as resolution and refresh rate here.

Access Preferences

Configure the use of assistive technologies using this menu. For details please refer to Chapter 4, *Assistive Technologies* (page 85) .

1.1.1 Session Management

A *session* is the period of time that you are actively logged in. During a session, you can use applications, print, browse the Web and so on.

The login screen offers several login options. For example, you can select the language of your session so that text that appears in the interface is presented in that language.

After your username and password are authenticated, the Session Manager starts. The Session Manager lets you save certain settings from each session. It also lets you save the state of your most recent session and return to that session the next time you log in.

The Session Manager can save and restore the following settings:

- Appearance and behavior settings, such as fonts, colors, and mouse settings.
- Applications that you were running, such as a file manager or an OpenOffice.org program.

TIP

You cannot save and restore applications that Session Manager does not manage. For example, if you start the Vi editor from the command line in a terminal window, Session Manager cannot restore your editing session.

1.1.2 Switching Desktops

If you installed both the GNOME and the KDE desktops, use the following instructions to switch desktops.

- 1 Click *Computer > Logout > Log Out*.

In KDE, click the *main menu* button, then click *Leave > Logout*.

- 2 In KDE, click *Session* on the login screen and select the desktop you want. In GNOME, first select or enter a user and then choose a desktop from the *Session* menu.

- 3 Type your username, then press Enter.

- 4 Type your password, then press Enter.

1.1.3 Locking Your Screen

To lock the screen, you can do either of the following:

- Click *Computer > Lock Screen*.

- If the *Lock* button is present on a panel, click it.

To add the *Lock* button to a panel, right-click the panel, then click *Add to Panel > Lock Screen*.

When you lock your screen, a screen saver starts, locking the screen. To unlock the screen, move your mouse or press a key to display the locked screen dialog. Enter your password, then press Enter.

For information on configuring your screen saver see Section 3.3.4, “Configuring the Screen Saver” (page 58).

1.2 Logging Out

When you are finished using the computer, you can log out (leaving the system running), restart or shut down the computer. If your system provides power management you can also suspend your computer, making the next session start much faster than with a complete reboot.

1.2.1 Logging Out or Switching Users

1 Click *Computer > Logout*.

2 Select one of the following options:

Log Out

Logs you out of the current session and returns you to the Login screen.

Switch User

Suspends your session, allowing another user to log in and use the computer.

1.2.2 Restarting or Shutting Down the Computer

1 Click *Computer > Shutdown*.

2 Select one of the following options:

Shutdown

Logs you out of the current session, then turns off the computer.

Restart

Logs you out of the current session, then restarts the computer.

Suspend

Puts your computer in a temporary state that conserves minimal power (“Suspend to RAM”). The state of your session is preserved, however, including all applications you have running and all documents you have open.

Hibernate

Suspends your session, using no power until the computer is restarted (“Suspend to Disk”). The state of your session is preserved, however, including all applications you have running and all documents you have open.

1.3 Desktop Basics

As with other common desktop products, the main components of the GNOME desktop are icons that link to files, folders, or programs, as well as the panel at the bottom of the screen (similar to the Task Bar in Windows). Double-click an icon to start its associated program. Right-click an icon to access additional menus and options. You can also right-click any empty space on the desktop to access additional menus for configuring or managing the desktop itself.

Figure 1.1 *GNOME Desktop*



By default, the desktop features two key icons: your personal Home folder and a trash can for deleted items. Other icons may also be present on the desktop, such as icons representing devices on your computer. If you double-click your Home folder, the Nautilus file manager starts and displays the contents of your home directory (where your personal files and configurations are stored). For more information about using Nautilus, see Section 2.2, “Managing Folders and Files with Nautilus” (page 17).

Right-clicking an icon displays a menu that offers file operations such as copying, cutting or renaming. Selecting *Properties* from the menu displays a configuration dialog. On the *Basic* tab, you can change the name of the icon as well as the icon itself (by clicking on it and selecting a file with a different one). Various information about the object represented by the icon is also shown here. The *Emblems* tab lets you add up to four graphically descriptive symbols to the icon. The *Permissions* tab lets you set access permissions for the selected files. The *Notes* tab lets you manage comments. The menu for the trash can also features the *Empty Trash* option, which deletes its contents.

A link is a special type of file that points to another file or folder. When you perform an action on a link, the action is performed on the file or folder to which the link points. However, when you delete a link, you delete only the link file and not the file that the link is referencing.

To create a desktop link to a folder or a file, access the object in File Manager by right-clicking the object and then clicking *Make Link*. Drag the link from the File Manager window and drop it onto the desktop.

1.3.1 Default Desktop Icons

To remove an icon from the desktop, simply drag it onto the trash can. The Home icon cannot be removed.

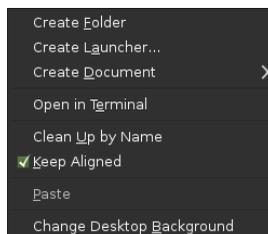
WARNING

Be careful with this option - if you move folder or file icons to the trash can and you empty the trash can, the actual data is deleted. If the icons only represent links to a file or to a directory, only the links are deleted.

1.3.2 Desktop Menu

Right-clicking an empty spot on the desktop displays a menu with various options. Click *Create Folder* to create a new folder. Create a launcher icon for an application with *Create Launcher*. Provide the name of the application and the command for starting it, then select an icon to represent it. Align the desktop icons by name with *Clean Up by Name*. With *Keep Aligned* checked, icons are always arranged in a grid. You can also change the desktop background with this menu or open a terminal window.

Figure 1.2 *GNOME Desktop Menu*



1.3.3 Bottom Panel

The desktop includes a panel across the bottom of the screen. The bottom panel contains the *main menu* (similar to the Start menu in Windows*), the taskbar showing the icons of all applications currently running as well as easy access to applications and applets. If you click the name of a program in the taskbar, the program's window is moved to the foreground. If the program is already in the foreground, a mouse click minimizes it. Clicking a minimized application reopens the respective window to foreground status.

Figure 1.3 *GNOME Bottom Panel*



The *Show Desktop* icon is on the right side of the bottom panel. This icon minimizes all program windows and displays the desktop. Or, if all windows are already minimized, it reopens them.

If you right-click an empty spot in the panel, a menu opens, offering the options listed in the following:

Table 1.1 *Panel Menu Options*

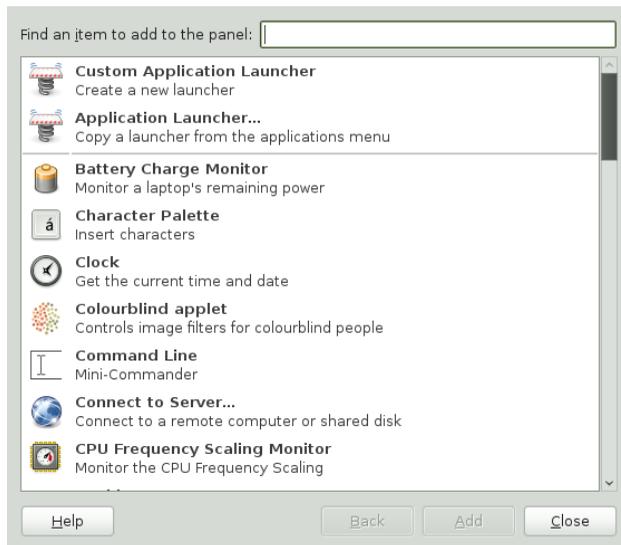
Option	Description
<i>Add to Panel</i>	Opens a menu of applications and applets that can be added to the panel.
<i>Properties</i>	Modifies the properties for selected panel. Using the <i>Orientation</i> property, you can move the panel to a different place of the screen.
<i>Delete This Panel</i>	Removes the panel, along with all panel settings, from the desktop.
<i>New Panel</i>	Creates a new panel and adds it to the desktop.
<i>Help</i>	Opens the Help Center.
<i>About Panels</i>	Opens information window about the panel application.

1.3.4 Adding Applets and Applications to the Panel

You can add applications and applets to the bottom panel for quick access. An applet is a small program, while an application is usually a more robust stand-alone program. Adding applets puts useful tools where you can easily access them.

The GNOME desktop comes with many applets. You can see a complete list by right-clicking the bottom panel and selecting *Add to Panel*.

Figure 1.4 *Add to Panel Dialog Box*



Some useful applets include the following:

Table 1.2 *Some Useful Applets*

Applet	Description
Dictionary Look up	Look up a word in an online dictionary.

Applet	Description
Force Quit	Terminate an application. This is especially useful if you want to terminate an application that is no longer responding.
Search for Files	Find files, folders, and documents on the computer.
Sticky Notes	Create, display, and manage sticky notes on your desktop.
Traditional Main Menu	Access programs from a menu like the one in previous versions of GNOME. This is especially useful for people who are accustomed to earlier versions of GNOME.
Weather Report	Display current weather information for a specified city.
Workspace Switcher	Access additional work areas (or workspaces) through virtual desktops. For example, you can open applications in different workspaces and use them on their own desktops without the clutter from other applications.

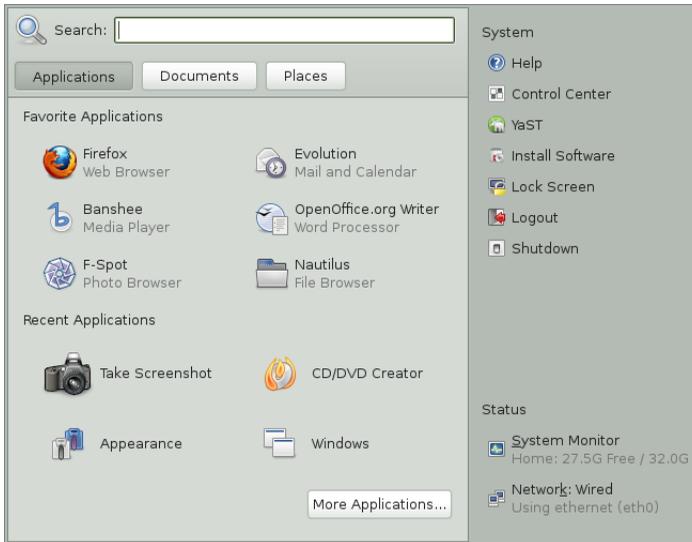
Working with Your Desktop

Now you can start to work with your desktop. In this chapter you will learn how to start applications, manage and search files and burn CDs. You will get familiar with the power management concept of GNOME and find out how to perform regular tasks with your desktop.

2.1 Using the Main Menu

Click *Computer* on very the left of the bottom panel to open the main menu showing a list of your favorite applications together with the most recently used ones. You can also click *Documents* to display your recent documents, or click *Places* to display your favorite places (such as your home directory or the Desktop). Click *More Applications* to access additional applications listed in categories. Use the options on the right to access Help, install additional software, open the GNOME Control Center, lock your screen, log out of the desktop or check the status of your hard drive and network connections.

Figure 2.1 *Main Menu*



The *main menu* contains several elements:

2.1.1 Search Bar

The search bar helps you find applications and files on your system. Enter your search phrase in the *Search* field, then press Enter. The results are displayed in the Desktop Search dialog box.

For more information about using Beagle, GNOME desktop's search function, see Chapter 6, *Searching with Beagle* (page 103).

2.1.2 Main Menu Tabs

You can determine what type of items appear in the main menu by clicking the *Applications*, *Documents* or *Places* tabs.

Favorite Applications

By default, Favorite Applications shows icons for four commonly used applications. Customize this view to show the applications you use most often.

To add an item to your Favorite Applications:

- 1 Click *Computer > More Applications*.
- 2 Right-click the application you want to add.
- 3 Select *Add to Favorites*.

The selected application is added to your Favorite Applications.

To remove an item from your Favorite Applications:

- 1 Click *Computer*.
- 2 Make sure that your Favorite Applications appear in the main menu. If *Favorite Applications* does not appear on the main menu, click *Applications*.
- 3 Right-click the item you want to remove.
- 4 Select *Remove from Favorites*.

Recent Applications

Recent Applications shows the last two to four applications you have started, provided they do not already appear under Favorite Applications.

Recent Documents

Click the *Documents* tab to display Favorite and Recent Documents. Use this view to quickly locate the documents you worked on most often or most recently. Click *More Documents* to open the File Browser. You may move a document from the Recent to the Favorite Documents section by right clicking it and choosing *Add to Favorites*.

Recent Places

Click the *Places* tab to display the last several places you have opened. Use this view to quickly locate the places you worked on most recently. Click *More Places* to open the File Browser.

2.1.3 System

The *System* pane of the main menu provides shortcuts to several system applications.

Table 2.1 *System Shortcuts*

Application	Description
Help	Opens the Help Center, which provides online documentation for your system.
Control Center	Allows you to customize and configure your desktop. For more information, see Chapter 3, <i>Customizing Your Settings</i> (page 45).
YaST	Allows you to customize and configure your system.
Install Software	Opens the Software Installer, which guides you through the process of installing new software.
Lock Screen	Locks your system so that nobody can access it while you are away. Enter your password to unlock the system.
Log Out	Opens the Log Out dialog, where you can log out or switch users.
Shutdown	Opens the Shutdown dialog, where you can shut down or restart your system. You can also suspend you computer from this shortcut.

2.1.4 Status

The *Status* section of the main menu displays information about your hard drive and network connection, including the amount of available space on your hard disk and the type of network connection you are using.

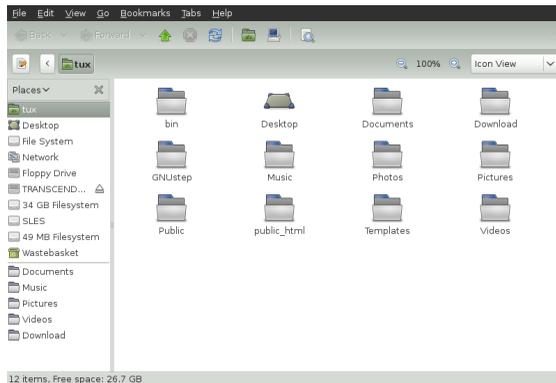
2.2 Managing Folders and Files with Nautilus

Use the Nautilus File Manager to create (or view) folders and documents, run scripts and create CDs of your data. In addition, the File Manager provides support for Web and file viewing.

You can open the File Manager in the following ways:

- Click *Computer > Nautilus File Browser*.
- Double-click your Home directory icon on the desktop.
- Click *Computer > More Applications > System > Home Folder*.

Figure 2.2 *File Manager*



The elements of the Nautilus window include the following:

Menu Lets you perform most tasks in the file manager. You can also open a context sensitive pop-up menu from a file manager window by right-clicking inside it. The items in this menu depend on where you right-click. For example, if you right-click a file or folder, you can select items related to the file or folder. If you right-click the background of a view pane, you can select items related to the display of items in the view pane.

Toolbar Lets you quickly navigate among files and folders, and provides access to them. The toolbar contains Back, Forward, Up, Stop, Reload, Home, Computer, and Search buttons.

Location Bar Lets you locate files, folders, and URI sites. The location bar supports two different views: the traditional text-based view (where you can enter or edit a path) and the button view (where each folder is displayed as a button). Navigate to a location by pressing a button.

Side Pane Lets you navigate or display information about the selected file or folder. Use the drop-down list to customize what is shown in the pane. The list includes ways to view information about files, perform actions on files, add emblems to files, view a history of recently visited sites and display your files in the Tree system. To close the side pane, click the X at the top right of the side pane. To display the side pane, click *View > Side Pane* or press F9.

View Pane Displays folders and files. Use the options in the *View* menu to zoom the content or choose from different sorting options. You can also display items as a detailed list, a compact list or as icons.

Status Bar Displays the number of items in a folder and gives the available free space. When a file is selected, the status bar displays the filename and size.

2.2.1 File Manager Navigation Shortcuts

Some simple shortcuts for navigating in the File Manager include the following:

Table 2.2 *File Manager Navigation Shortcuts*

Shortcut	Description
<— or Alt + ↑	Opens the parent folder.

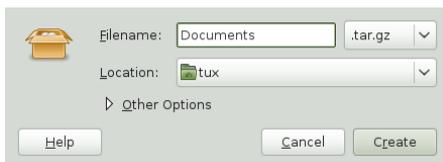
Shortcut	Description
Arrow key	Selects an item.
Alt + ↓ or Enter	Opens an item.
Shift + Alt + ↓	Opens an item and closes the current folder.
Shift + Alt + ↑	Opens the parent folder and closes the current folder.
Shift + Ctrl + W	Closes all parent folders.
Ctrl + L	Toggles the location bar view from the button view to the text-based view.
Alt + Home	Opens your home directory.

For more information, click *Help > Contents* in the File Manager.

2.2.2 Archiving Folders

If you have files you would like to archive, you can compress the files into tape archive format (TAR).

- 1 In the Nautilus view pane, right-click the folder you want to archive, then click *Create Archive*.



- 2 Accept the default archive filename or provide a new one.

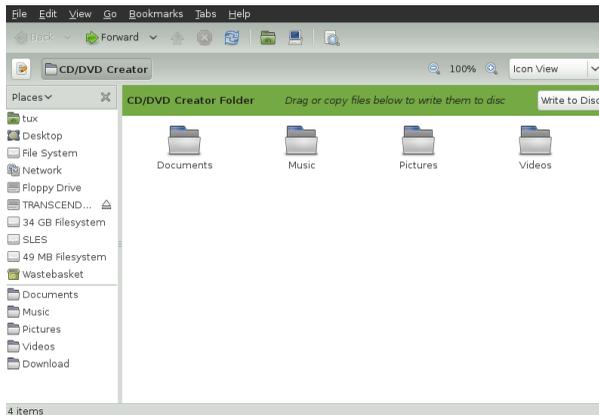
- 3 Select a file extension from the drop-down list (use `tar.gz` for the most common archive form or `.zip` to ensure compatibility with Windows).
- 4 Specify a location for the archive file, then click *Create*.

To extract an archived file, right-click the file, then select *Extract Here*.

2.2.3 Creating a CD/DVD

If your system has a CD or DVD read/write drive, you can use the Nautilus file manager to burn CDs and DVDs.

- 1 Click *Computer > More Applications > System > CD/DVD Creator*, or insert a blank disc and click *Make Data CD/DVD* or *Make Audio CD/DVD*.
- 2 Drag and drop the files you want to put on the disc into the Nautilus *CD/DVD Creator* window.



- 3 Click *Write to Disc*.
- 4 Modify the information in the Write to Disc dialog box or accept the defaults, then click *Write*.

The files are burned to the disc. This could take a few minutes, depending on the amount of data being burned and the speed of your burner.

To burn an iso image, right-click on the iso image file in Nautilus and choose *Write to Disc*. Modify the information in the Write to Disc dialog box or accept the defaults, then click *Write*.

You can also use the burning application Brasero to burn CDs or DVDs. See Chapter 23, *Burning CDs and DVDs With Brasero* (↑*Application Guide*) for more information.

2.2.4 Using Bookmarks

Use the Nautilus Bookmarks feature to mark your favorite folders.

- 1 Select the folder or item for which you want to create a bookmark.
- 2 Click *Bookmarks > Add Bookmark*. The bookmark is added to the list, with the folder name as the bookmark name. When you bookmark a file, it is the folder that is actually bookmarked.
- 3 To select an item from your Bookmarks list, click *Bookmarks*, then click the desired bookmark in the list.

You can also organize your Bookmarks list by clicking *Bookmarks > Edit Bookmarks* and making your selections in the dialog box.



To change the order of your bookmarks, click a bookmark and drag it to the desired location.

2.2.5 File Manager Preferences

You can change the File Manager preferences by clicking *Edit > Preferences*. For more information, see Section 3.3.7, “Configuring File Management Preferences” (page 63).

2.2.6 Accessing Remote Files

You can utilize Nautilus to access files on remote servers. For more information see Chapter 5, *Accessing Network Resources* (page 95).

2.3 Accessing Floppy Disks, CDs, or DVDs

To access floppy disks, CDs or DVDs, insert the medium into the appropriate drive. An icon for the medium is automatically created on the desktop. For many types of removable media, a File Manager window pops up automatically when the media is inserted or attached to the computer. If File Manager does not open, double-click the icon for that drive to view the contents.

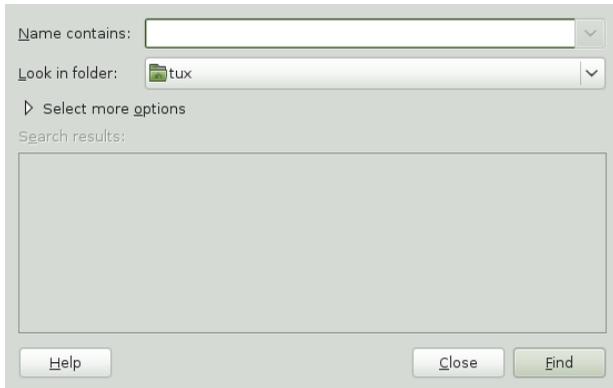
WARNING

Do not simply remove disks from the drive after using them. Floppy disks, CDs, and DVDs must always be unmounted from the system first. Close all applications still accessing the medium, then right-click the icon for the medium and select *Eject Volume* or *Unmount Volume* from the menu. Then safely remove the floppy disk, CD, or DVD when the tray automatically opens.

2.4 Searching for Files

Using *Search for File* on the *Computer > More Applications > System* menu, you can locate files on your computer or on a network share using any number of search criteria.

Figure 2.3 *Search for Files Dialog*



Search for Files uses the `find`, `grep` and `locate` UNIX commands. All searches are case insensitive.

You can also open the *Search for Files* dialog by entering the following command into the Run Application dialog (started with `Alt + F2`):

```
gnome-search-tool
```

2.4.1 Performing a Basic Search

- 1 Start *Search for Files*.
- 2 Type the search text in the *Name contains* field.

The search text can be a filename or partial filename, with or without wild cards, as shown in the following table:

Search Text	Example	Result
Full or partial filename	myfile.txt	Searches for all files that contain “myfile.txt” in the filename.
Partial filename combined with wild cards (* [])	*.[ch]	Searches for all files that have a .c or .h extension.

- 3 In the *Look in folder* field, choose the directory where you want *Search for Files* to begin the search.
- 4 Click *Find*.

2.4.2 Adding Search Options

Use *Select more options* to search by file content, dates, owner or file size.

- 1 Start *Search for Files*.
- 2 Type the search text in the *Name contains* field.
- 3 In the *Look in folder* field, type the path to the directory where you want *Search for Files* to begin the search.
- 4 Click *Select more options*, then click *Available options*
- 5 Select a search option that you want to apply, then click *Add*.

The following options are available:

Option	Description
<i>Contains the text</i>	Searches for a file by filename. Type a full filename or a partial filename with wild cards in the field provided. Use an asterisk (*) to indicate a sequence of characters. Use a question mark (?) to indicate a single character. The search is case sensitive.
<i>Date modified less than</i>	Searches for files that were modified within the period specified (in days).
<i>Date modified more than</i>	Searches for files that were modified before the period specified (in days).

Option	Description
<i>Size at least</i>	Searches for files that are equal to or larger than the size specified (in kilobytes).
<i>Size at most</i>	Searches for files that are smaller than or equal to the size specified (in kilobytes).
<i>File is empty</i>	Searches for empty files.
<i>Owned by user</i>	Searches for files that are owned by the user specified. Type the name of the user in the text box provided.
<i>Owned by group</i>	Searches for files that are owned by the group specified. Type the name of the group in the text box provided.
<i>Owner is unrecognized</i>	Searches for files that are owned by a user or group that is unknown to the system.
<i>Name does not contain</i>	Searches for filenames that do <i>not</i> contain the string that you enter. Enter a full filename or a partial filename with wild cards in the field provided. Use an asterisk (*) to indicate a sequence of characters. Use a question mark (?) to indicate a single character. The search is case sensitive.
<i>Name matches regular expression</i>	Searches for files that contain the specified regular expression in their directory path or filename. Type the regular expression in the text box provided. Regular expressions are special text strings used to describe a search pattern. For more information, see http://www.regular-expressions.info .

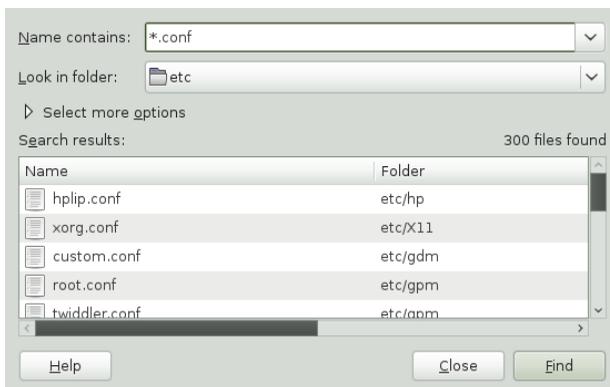
Option	Description
<i>Show hidden and backup files</i>	Includes hidden and backup files in the search.
<i>Follow symbolic links</i>	Follows symbolic links when searching for files.
<i>Exclude other filesystems</i>	Searches only in directories that are on the same file system as the start directory.

- 6 Specify the required search information for the search option.
- 7 To remove a search option from the current search, click the *Remove* button next to the option.
- 8 Click *Find*.

2.4.3 Using the Search Results List

You can use the Search Results list to open or delete a file found during a search, or you can save the search results to a file.

Figure 2.4 *Search Results List*



To open a file displayed in the Search Results list, right-click the file, then click *Open* or double-click the file. To open the folder that contains a file displayed in the Search Results list, right-click the file and click *Open Folder*.

To delete a file displayed in the Search Results list, right-click the file and click *Move to Trash*.

To save the results of the last search that *Search for Files* performed, right-click anywhere in the Search results list and click *Save Results As*. Type a name for the file that will contain your Search results and click *Save*.

2.4.4 Disabling Quick Searches

By default, *Search for Files* tries to speed up some searches by using the `locate` command. `locate` provides a secure way to index and quickly search for files. Because `locate` relies on a file index, the *Search Results* list might not be up to date. To disable quick searches, run the following command in a terminal window:

```
# gconftool-2 --type=bool --set  
/apps/gnome-search-tool/disable_quick_search 1
```

2.5 Moving Text Between Applications

To copy text between applications, select the text, then move the mouse cursor to the position where you want the text pasted. Click the center button on the mouse or the scroll wheel to paste the text.

When copying information between programs, you must keep the source program open and paste the text before closing it. When a program closes, any content from that application that is on the clipboard is lost.

2.6 Managing Internet Connections

To surf the Internet or send and receive e-mail messages, you must have configured an Internet connection with YaST. Depending on your environment, in YaST select whether to use NetworkManager. In GNOME, you can then establish Internet connections with

NetworkManager as described in Section “Using GNOME NetworkManager Applet” (Chapter 5, *Using NetworkManager*, ↑*Start-Up*).

For a list of criteria to help you to decide whether to use NetworkManager, refer to Section “Use Cases for NetworkManager” (Chapter 5, *Using NetworkManager*, ↑*Start-Up*).

2.7 Exploring the Internet

The GNOME desktop includes Firefox, a Mozilla*-based Web browser. You can start it by clicking *Computer > Firefox*.

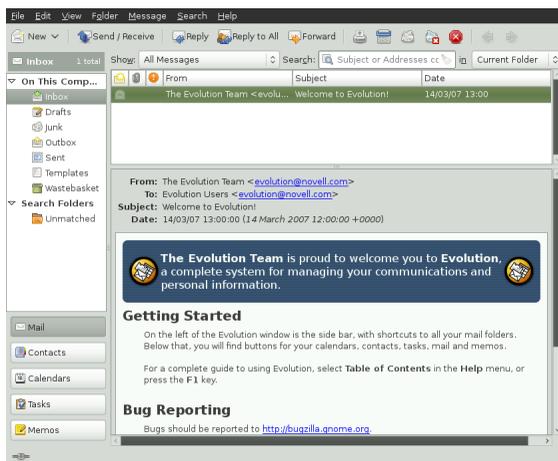
You can type an address into the location bar at the top or click links in a page to move to different pages, just like in any other Web browser.

For more information, see Chapter 14, *Browsing with Firefox* (↑*Application Guide*).

2.8 E-mail and Scheduling

For reading and managing your mail and events, openSUSE offers you Evolution, a groupware program that makes it easy to store, organize and retrieve your personal information.

Evolution seamlessly combines e-mail, a calendar, an address book, and a memo and task list in one easy-to-use application. With its extensive support for communications and data interchange standards, Evolution can work with existing corporate networks and applications, including Microsoft* Exchange.



To start Evolution, click *Computer > More Applications > Office > Evolution Mail and Calendar*.

The first time you start Evolution, it prompts you with a few questions as it sets up a mail account and helps you import mail from your old mail client. Then it shows you how many new messages you have and lists upcoming appointments and tasks. The calendar, address book and mail tools are available in the shortcut bar on the left.

For more information, see Chapter 6, *Evolution: E-mailing and Calendar*ing (*Application Guide*).

2.9 Opening or Creating Documents with OpenOffice.org

For creating and editing documents, OpenOffice.org is installed with the GNOME desktop. OpenOffice.org is a complete set of office tools that can both read and save Microsoft Office file formats. OpenOffice.org has a word processor, a spreadsheet, a database, a drawing tool and a presentation program.

To get started, click *Computer > OpenOffice.org Writer* or select an OpenOffice.org module by clicking *Computer > More Applications > Office* and selecting the module you want to open.

A number of sample documents and templates are included with OpenOffice.org. You can access the templates by clicking *File > New > Templates and Documents*. In addition, you can use wizards, which guide you through the creation of letters and other typical documents.

For more information, see Chapter 1, *The OpenOffice.org Office Suite* (↑*Application Guide*) or view the *Help* in any OpenOffice.org program.

2.10 Controlling Your Desktop's Power Management

GNOME Power Manager is a session daemon for the GNOME desktop that manages the power settings for your laptop or desktop computer. When running on battery, the GNOME Power Manager displays a battery icon showing the battery state in the panel. When hovering the mouse over the icon, a pop-up with more information is shown. To view detailed information about the batteries current state, left-click the icon and choose *Laptop Battery*. On certain events, such as a critically low battery state, the GNOME Power Manager will display notifications informing you about the event.

GNOME Power Manager is usually started automatically when GNOME starts, but you can manually start GNOME Power Manager by using the following command:

```
gnome-power-manager --verbose --no-daemon
```

2.10.1 Viewing Power Statistics

The statistics program lets you view the power consumption of your laptop hardware in graphic form. To access the statistics graphs, right-click the battery icon and choose *Power History*, or click *Computer > More Applications > System > Power Statistics*.

The Power History graph shows the power history charge used by the composite primary battery. The line represents the amount of power that is either being used to charge the batteries in the system or the power being used by the system from the batteries. You should see the line go up when processor intensive tasks are performed, and go down when the system is at idle (or when the screen is dimmed). A legend is shown with this graph when data events have been received.

You will not receive rate data from your computer if it is not charging or discharging, or if the computer is suspended. This is due to hardware limitations (where the rate is only sent from the battery management chip, rather than the power management chip on the motherboard).

Depending on your hardware, other graphs will be available from the *Graph Type* menu. You might also see additional hardware that can be accessed via the optional *Devices* button.

2.10.2 Modifying Power Management Preferences

The Power Management Preferences dialog box lets you control the LCD brightness when your system is on AC or battery power, the idle time for the screen power-down and suspend action, the actions to perform when the laptop lid is closed and the notification area icon policy.

To access Power Management Preferences, right-click the battery icon and choose *Preferences*, or click *Computer > More Applications > System > Power Management*.

On AC Power Preferences

Use the options on the On AC Power dialog box to automatically put your computer to sleep when it has been inactive for a specified amount of time. When your computer is asleep, it is turned on but in a low power mode (suspend to RAM). It takes less time for a computer to wake up from sleep than it does for the computer to start up after being turned off.

You can also set only the display to sleep and adjust the display brightness. If your computer is in the middle of a task (for example, burning a DVD) that you want to finish while you are away, set only the display to sleep.

Figure 2.5 *GNOME Power Manager On AC Power Preferences*



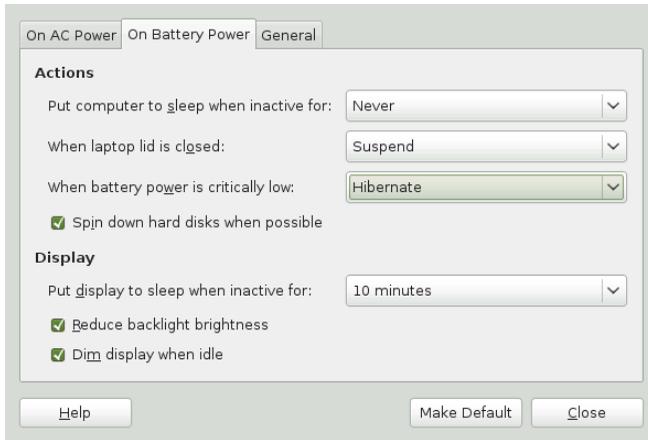
On Battery Power Preferences

Use the options on the On Battery Power dialog box to automatically put your computer to sleep when it has been inactive for a specified amount of time, to specify what happens when the laptop lid is closed, and what happens when battery power is critically low.

When your computer is asleep, it is turned on but in a low power mode (suspend to RAM). It takes less time for a computer to wake up from sleep than it does for the computer to start up after being turned off.

You can also set only the display to sleep. If your computer is in the middle of a task (for example, burning a DVD) that you want to finish while you are away, set only the display to sleep.

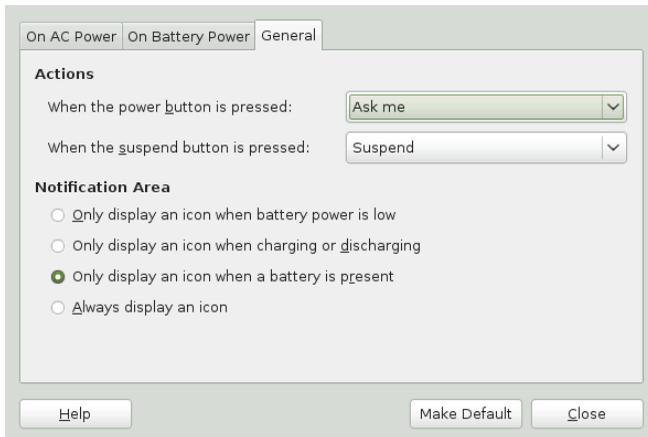
Figure 2.6 *GNOME Power Manager On Battery Power Preferences*



General Preferences

Use the options on the General Power Management Preference dialog box to configure miscellaneous options related to GNOME Power Manager's behavior, such as the actions to perform when the power or suspend buttons are pressed, if an icon is displayed in the Notification area and if sound is used to notify you in the event on an error.

Figure 2.7 *GNOME Power Manager General Preferences*



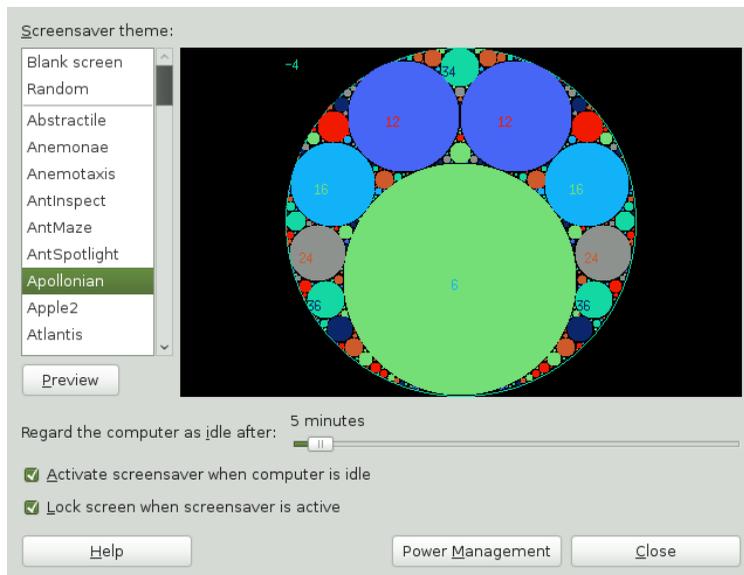
2.10.3 Session and System Idle Times

`gnome-screensaver` is a session daemon that monitors user input (if the mouse has or has not been moved and if the keyboard has or has not been pressed) then starts a timeout. When the value of this timeout reaches the value set in Screensaver Preferences (using the *Regard the computer as idle after* option), then the login is marked as “session idle.”

As soon as the session is marked idle, GNOME Power Manager starts its own system timer. When the timeout set in GNOME Power Manager Preferences is reached, and the CPU load is idle, then the idle action is performed (such as turning off the screen, suspending or hibernating the computer).

To make this clearer, the sliders in GNOME Power Manager Preferences are set to start at the value of the session-timeout + 1 minute, as GNOME Power Manager Preferences cannot logically trigger before the session is marked as idle. If you adjust the value of the session idle timeout in Screensaver Preferences, the start time of the sliders in GNOME Power Manager Preferences will change accordingly.

Figure 2.8 *Changing the Session Idle Timeout in Screensaver Preferences*



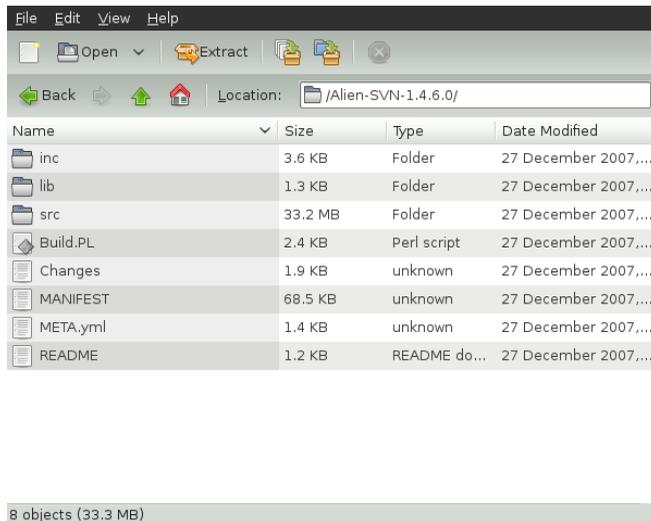
To access the screen saver preferences, click *Computer > More Applications > Utilities > Screensaver*. For more information, see Section 3.3.4, “Configuring the Screen Saver” (page 58).

2.11 Creating, Displaying, and Decompressing Archives

You can use the Archive Manager application (also known as File Roller) to create, view, modify or unpack an archive. An archive is a file that acts as a container for other files. An archive can contain many files, folders and subfolders, usually in compressed form. Archive Manager application supports common formats such as zip, tar.gz, tar.bz2, lzh, and rar. You can use Archive Manager to create, open and extract a compressed non-archive file.

To start Archive Manager, click *Computer > More Applications > Utilities > File Roller*. If you already have a compressed file, double-click the filename in the Nautilus file manager to view the contents of the archive in Archive Manager.

Figure 2.9 *Archive Manager*



2.11.1 Opening an Archive

- 1 In Archive Manager, click *File > Open*.
- 2 Select the archive you want to open.
- 3 Click *Open*.

Archive Manager automatically determines the archive type, and displays the following:

- The archive name in the window title bar.
- The archive contents in the display area.
- The total number of files in the archive and the size of the archive when uncompressed, in the status bar.

To open another archive, click *> Open* again. Archive Manager opens each archive in a new window. To open another archive in the same window, you must first click *Archive > Close* to close the current archive, then click *Archive > Open*.

If you try to open an archive that was created in a format that Archive Manager does not recognize, the application displays an error message.

2.11.2 Creating Archives

- 1 In Archive Manager, click *File > New*.
- 2 Specify the name and location of the new archive.
- 3 Select an archive type from the *Archive type* drop-down list.
- 4 Click *Create*.

Archive Manager creates an empty archive, but does not yet write the archive to disk. Archive Manager writes a new archive to disk only when the archive contains

at least one file. If you create a new archive and quit Archive Manager before you add any files to the archive, Archive Manager deletes the archive.

5 Add files and folders to the new archive:

5a Click *Edit > Add Files* or *Edit > Add a Folder* and select the files or folders you want to add.

5b Click *Add*.

Archive Manager adds the files to the current folder in the archive.

You can also add files to an archive in a file manager window without opening Archive Manager. See Section 2.2.2, “Archiving Folders” (page 19) for more information.

2.11.3 Extracting Files From an Archive

1 In Archive Manager, select the files that you want to extract.

2 Click *File > Extract*.

3 Specify the folder where Archive Manager will extract the files.

4 Choose from the following extract options:

Option	Description
All files	Extracts all files from the archive.
Selected files	Extracts the selected files from the archive.
Files	Extracts from the archive all files that match the specified pattern.
Re-create folders	Reconstructs the folder structure when extracting the specified files.

Option	Description
	<p>For example, you specify <code>/tmp</code> in the <i>Filename</i> text box and choose to extract all files. The archive contains a subfolder called <code>doc</code>. If you select the <i>Re-create folders</i> option, Archive Manager extracts the contents of the subfolder to <code>/tmp/doc</code>. If you do not select the <i>Re-create folders</i> option, Archive Manager does not create any subfolders. Instead, Archive Manager extracts all files from the archive, including files from subfolders, to <code>/tmp</code>.</p>
Overwrite existing files	<p>Overwrites any files in the destination folder that have the same name as the specified files.</p> <p>If you do not select this option, Archive Manager does not extract the specified file if an existing file with the same name already exists in the destination folder.</p>
Do not extract older files	<p>Extracts the specified file only if the destination folder does not contain the specified file or if the destination folder contains an older version of the specified file. Archive Manager uses the modification date to determine which file is the most recent. If the version of the file in the archive is older, Archive Manager does not extract the specified file to the destination folder.</p> <p>This option is only available if the <i>Overwrite existing files</i> option is selected.</p>
Password	<p>This option is available only if the archive type supports encryption. Currently, only <code>.zip</code> and <code>.arj</code> archives support encryption.</p> <p>If the archive contains encrypted files, enter the required password in the <i>Password</i> field to decrypt the specified files during the extraction process.</p>

Option	Description
	The required password is the encryption password that was specified when the archive was created.

5 Click *Extract*.

If all of the files in the archive are protected by a password (and you have not specified the password) Archive Manager displays an error dialog.

If some but not all of the files in the archive are protected by a password (and you have not specified the password) Archive Manager does not display an error dialog. However, Archive Manager extracts only the unprotected files to the new archive.

To extract an archived file in a file manager window without opening Archive Manager, right-click the file and select *Extract Here*.

The Extract operation extracts a copy of the specified files from the archive. The extracted files have the same permissions and modification date as the original files that were added to the archive.

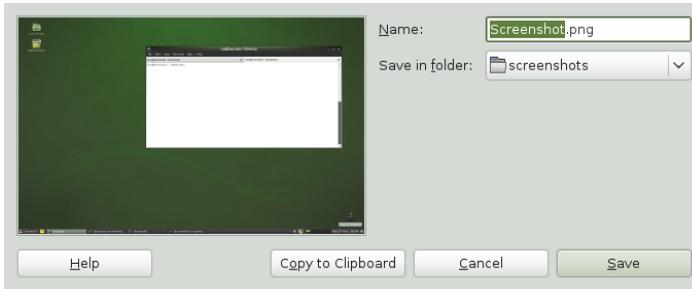
The Extract operation does not change the contents of the archive.

2.12 Taking Screen Shots

You can take a snapshot of your screen or an individual application window using the Take Screenshots utility. Start it by pressing Print to take a screen shot of the entire desktop or by pressing Alt + Print to take a screen shot of the currently active window or dialog box. You may also start the application via *Computer > More Applications > System > Take Screenshot*.

When you take a screen shot, the Save Screenshot dialog box opens. To save the screen shot as an image file, enter the filename for the screen shot and choose a location from the drop-down list.

Figure 2.10 Save Screenshot Dialog Box

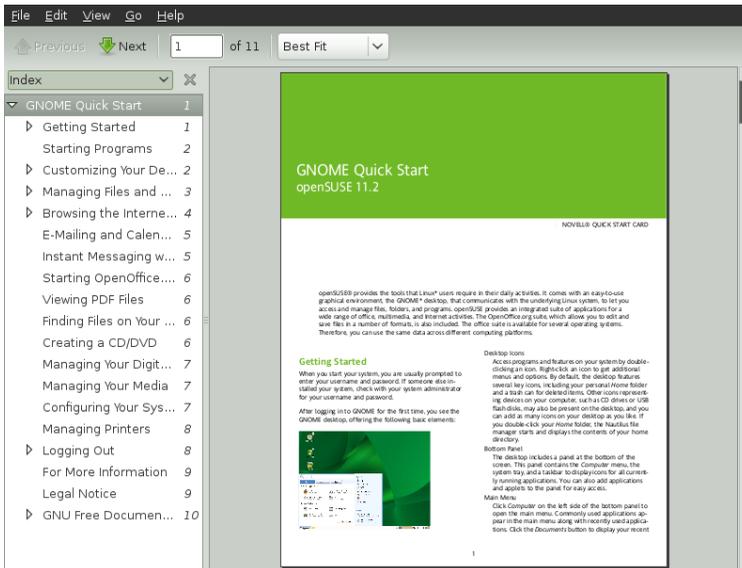


You can also use GIMP to take screen shots. In GIMP, click *File > Create > Screenshot*, select an area, choose a delay and then click *Snap*.

2.13 Viewing PDF Files

Documents that need to be shared or printed across platforms can be saved as PDF (Portable Document Format) files. openSUSE ships with the Evince PDF Viewer.

Figure 2.11 Evince PDF Viewer



To open Evince, double-click a PDF file in a file manager window (or Web site) or press Alt + F2, type `evince` and press Enter.

To view a PDF file in Evince, click *File > Open*, locate the desired PDF file and click *Open*.

Use the navigation icons at the top of the window or the thumbnails in the left panel to navigate through the document. If your PDF document provides bookmarks, you can access them in the left panel of the viewer.

2.14 Controlling Sound

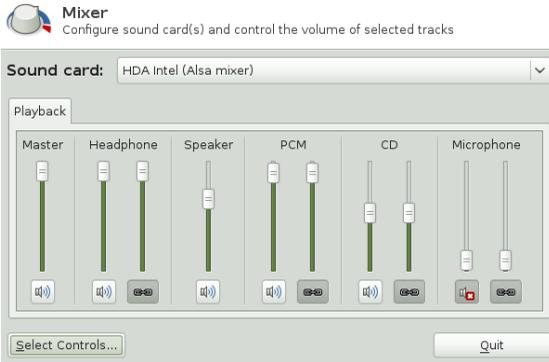
YaST automatically identifies and configures the sound cards in your computer. You can also use the YaST Hardware module to configure your sound card manually. When your sound card has been configured, you can control the volume and balance of the sound with the GNOME Volume Control mixer.

GNOME uses the PulseAudio sound server by default. PulseAudio allows to control audio “streams” of different programs with one GUI. It is then, for example, possible to use two different programs generating audio output at the same time by sending their output to different devices such as headphones and speakers.

If the mixer icon (a loudspeaker symbol) is not visible in the panel on your desktop, press Alt + F2 and enter `gnome-volume-control`, or click *Computer > More Applications > Multimedia > Sound*.

Left-click on the mixer icon and move the slider up or down to change the overall volume. Right-click and choose *Sound Preferences* for a detailed configuration dialog.

Figure 2.12 *GNOME Sound Preferences Dialog Box*



The GNOME Volume Control dialog box contains the following tabs:

Sound Effects

Shows a list of all the sound themes available, along with several alert sounds to choose. By *Alert Volume* slider, you can adjust the volume level of alert sounds.

Hardware

Lists hardware sound devices present and configured on your system. Here you can set the mode in which you want the device to operate.

Input

Lists sound devices from which you choose the input sound device, and the preferred audio input, such as microphone. Contains a slider to change the input device volume, and an option to mute the input entirely.

Output

Lists sound devices from which you choose the output sound device. You can adjust detailed settings for the device, such as sound balance.

Applications

Lists all application currently playing a sound file, or recording audio.

2.15 Using the Fingerprint Reader

If your system includes a fingerprint reader, users can log in to the system either by swiping a finger on the fingerprint reader or by typing in a password. For more information, refer to Chapter 7, *Using the Fingerprint Reader* (↑*Security Guide*).

2.16 Obtaining Software Updates

When you connect to the Internet, the openSUSE Updater automatically checks whether software updates for your system are available. An openSUSE Updater applet in the system tray of your panel informs you of the availability of updates and lets you easily install them with just a few clicks. The applet icon changes color and appearance depending on the availability of updates for your system.

For detailed information on how to install software updates with openSUSE Updater and how to configure openSUSE Updater, refer to the chapter about installing and removing software in Section “Keeping the System Up-to-date” (Chapter 3, *Installing, Removing and Updating Software*, ↑*Start-Up*).

2.17 For More Information

Along with the applications described in this chapter for getting started, GNOME can run many other applications. Find detailed information about these important applications in the other parts of this manual and in the *Application Guide* (↑*Application Guide*).

To learn more about GNOME and GNOME applications, see <http://www.gnome.org> and <http://gnomefiles.org>.

To report bugs or add feature requests, go to <http://bugzilla.gnome.org>.

Customizing Your Settings

You can change the way the GNOME desktop looks and behaves to suit your own personal tastes and needs. Some of the settings you might want to change include:

- Keyboard and mouse configuration, as described in Section 3.2.2, “Modifying Keyboard Preferences” (page 49) and Section 3.2.3, “Configuring the Mouse” (page 50)
- Desktop background, as described in Section 3.3.1, “Changing the Desktop Background” (page 55)
- Screen saver, as described in Section 3.3.4, “Configuring the Screen Saver” (page 58)
- Password, as described in Section 3.4.1, “Changing Your Password” (page 76)
- Sounds, as described in Section 3.2.6, “Setting Sound Preferences” (page 53)

These settings and others can be changed in the Control Center.

3.1 The Control Center

While YaST is a desktop independent system-wide tool to configure most aspects of your openSUSE installation, such as hardware settings, network devices and services, software management or virtualization, the Control Center is a GNOME configuration tool and focuses more on the look and feel, personal settings and preferences of your GNOME desktop.

To access the Control Center, click *Computer > Control Center*. The Control Center is divided into the following four categories:

Hardware

Allows you to configure hardware components such as graphics cards, monitors, printers or keyboard layout, and to set up your sound device and desktop sound effects. For more information, see Section 3.2, “Hardware” (page 47).

Look and Feel

Contains settings for the desktop background, the screen saver and the fonts appearing on the desktop. You can modify themes, window behavior and styles of desktop elements such as menus and scroll bars. You can also configure 3D desktop effects (Compiz). For more information see Section 3.3, “Look and Feel” (page 55).

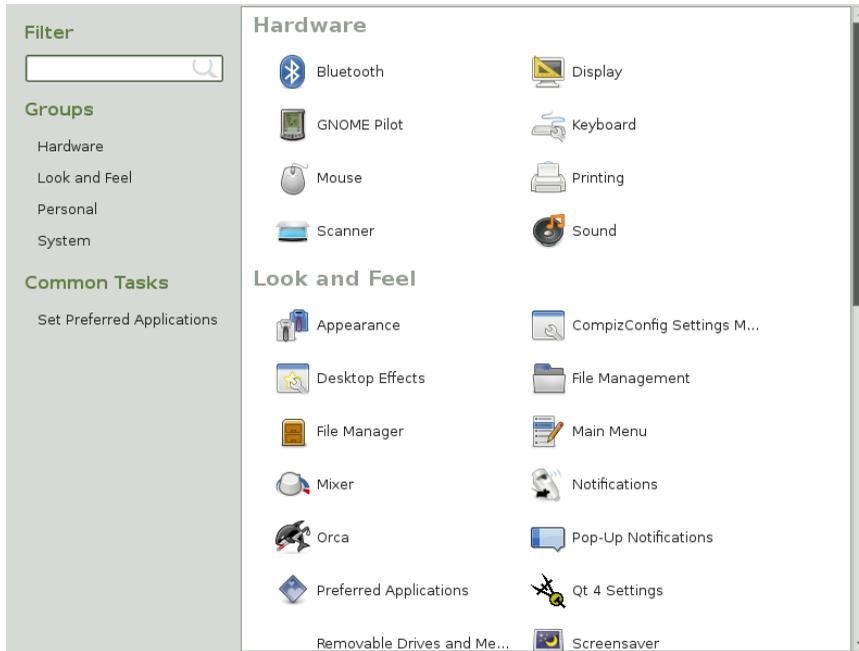
Personal

Go here to change your login password or to configure keyboard shortcuts and keyboard accessibility settings. For more information see Section 3.4, “Personal” (page 75).

System

Lets you configure system settings such as language, network connections, software sources and updates, your preferred applications, or power management. Define how GNOME handles sessions on login or shutdown and modify the Beagle search settings. For more information see Section 3.5, “System” (page 77).

Figure 3.1 *GNOME Control Center*



In order to change some system-wide settings, Control Center will prompt you for the `root` password and start YaST. This is mostly the case for administrator settings (including most of the hardware, the graphical user interface, Internet access, security settings, user administration, software installation and system updates and information). Follow the instructions in YaST to configure these settings. For information about using YaST, refer to the integrated YaST help texts or refer to *Start-Up* (↑*Start-Up*).

This chapter focuses on individual settings you can change directly in the GNOME Control Center (without YaST interaction).

3.2 Hardware

In the following sections you will find examples of how to configure some hardware aspects of your GNOME desktop, including keyboard or mouse preferences, handling of removable drives (and other media) or screen resolution.

3.2.1 Configuring Bluetooth Settings

The Bluetooth module lets you set the visibility of your machine over Bluetooth, the name of your machine used for Bluetooth communication and whether you want to show the Bluetooth applet in your panel. To configure Bluetooth connectivity, follow these steps:

- 1 Click *Computer > Control Center > System > Bluetooth* or right-click the Bluetooth icon in GNOME panel and select *Preferences*.
- 2 On the *General* tab set the visibility of the Bluetooth applet icon in the *Notification area* of the GNOME panel. Right-click the applet icon to set connections with Bluetooth devices and file transfers.
- 3 On the *General* tab use options under *Power switches* for switching the Bluetooth adapter on and off. The available options depend on the hardware used.
- 4 If the Bluetooth hardware is available and switched on, there is another available tab. Under *Visibility setting* set the visibility of the machine over a Bluetooth network. If the *Temporary visible* option is chosen use the slider to set the visibility period. The *Friendly name* option specifies the name of the computer in the Bluetooth network.
- 5 The *Known devices* section lists all known Bluetooth devices. Use the button with the plus icon to configure a new device connection.
- 6 Click *Close*.

To configure file sharing over Bluetooth, follow these steps:

- 1 Click *Computer > Control Center > System > Personal File Sharing*.
- 2 In the *Share Files over Bluetooth* section configure the sharing of files in your `~/Public` directory. Use *Share Public files over Bluetooth* to activate or deactivate sharing of this directory. Specify whether remote devices can delete public files and whether they are required to bond with your computer.
- 3 In the *Receive Files over Bluetooth* section specify whether to accept files sent over Bluetooth, from which devices and whether you want to be notified about received files.

4 Click *Close*.

3.2.2 Modifying Keyboard Preferences

To modify some keyboard settings (such as autorepeat preferences or typing break sessions) click *Computer > Control Center > Hardware > Keyboard*.

Figure 3.2 *Keyboard Preferences Dialog*



- 1 On the *General* tab you can set some general keyboard preferences, such as enabling keyboard repeat with individual delay and speed options or enabling or disabling the blinking of the cursor and defining the speed. For more information about the individual options, click *Help*.
- 2 To select your keyboard model click the *Layouts* tab and select your model from the *Keyboard model* list.
- 3 To add a new language layout, click *Add* and choose a language layout to add to the list. You can select different layouts to suit different locales. Select one layout as *Default*.
- 4 On the *Typing Break* tab you can set typing break preferences. For more information about the individual options click *Help*.

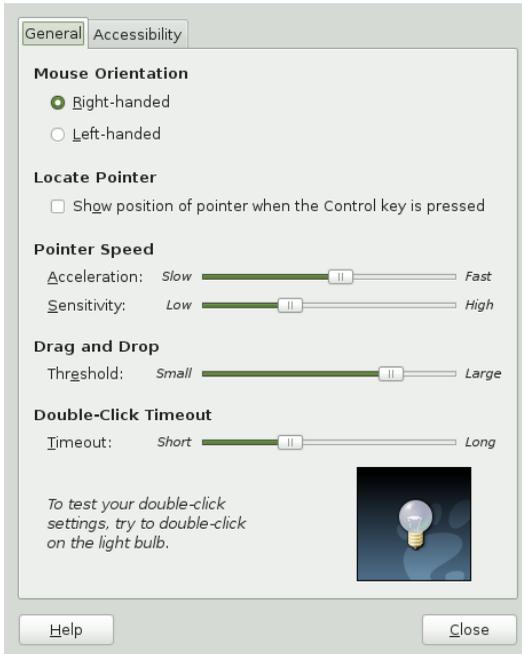
5 If all options are set according to your wishes, click *Close*.

For configuration of keyboard accessibility options refer to the Section “Accessible Keyboard” (page 89).

3.2.3 Configuring the Mouse

To modify some mouse options click *Computer > Control Panel > Hardware > Mouse* to open the *Mouse Preferences*.

Figure 3.3 *Mouse Preferences Dialog*



1 The *General* tab is divided into several sections. Use the radio buttons in the *Mouse Orientation* section to specify if the mouse buttons are configured for left-hand or right-hand use.

- 2 Check the option in the *Locate Pointer* section on the *General* tab to enable a mouse pointer animation when you press and release Ctrl. This feature can help you locate the mouse pointer.
- 3 Use the sliders in the *Pointer Speed* section on the *General* tab to define the *Acceleration* and *Sensitivity* of your mouse pointer.
- 4 Use the slider in the *Drag and Drop* section on the *General* tab to modify the distance that you must move an item with the pointer before the action is interpreted as a drag and drop action.
- 5 Use the slider in the *Double-Click Timeout* section on the *General* tab to define the maximum delay between the two clicks of a double-click. If the interval between two clicks is greater than the interval specified here, the action is interpreted as two separate clicks instead of a double-click. Use the light bulb icon to check double-click sensitivity: the light will light up briefly for a click, but stay lit for a double-click.
- 6 If all options are set according to your wishes, click *Close*.

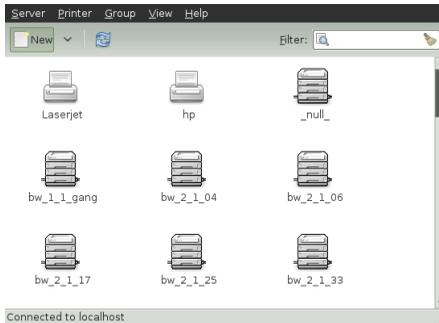
For configuration of mouse accessibility options refer to Section 4.2.1, “Mouse Behavior” (page 88).

3.2.4 Installing and Configuring Printers

The Printing module lets you connect to any available local or remote CUPS server and configure printers.

- 1 To start the Printers module, click *Computer > Control Center > Hardware > Printing*.
- 2 The CUPS server to which you are connected is shown in the status bar. To connect to a different CUPS server, click *Server > Connect*, enter URL of the CUPS server and press *Connect*. The printers available at the server are shown in the main window. Update the list of available printers with the *Refresh* button.
- 3 To add a new printer press *New* in the toolbar and follow the configuration wizard.
- 4 To configure printer properties, set it as the default printer or view its print queue, right-click the printer's icon and select appropriate option from the menu.

Figure 3.4 *Printer Configuration Dialog*



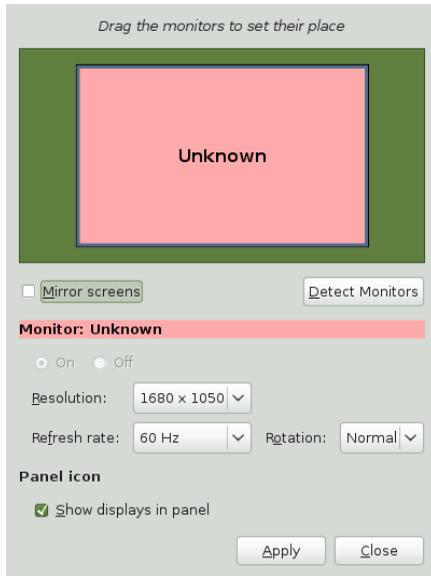
For detailed information refer to Chapter 7, *Managing Printers* (page 113).

3.2.5 Configuring Screens

To specify the resolution, refresh rate and orientation for your screen or to configure multiple screens, click *Computer > Control Center > Hardware > Display* and modify the options.

- 1 Press *Detect Displays* to detect all monitors connected to your computer.
- 2 To set options for any monitor, click on the monitor's icon in the blue preview area and set its *Resolution*, *Refresh Rate*, and *Rotation* (orientation) using the drop-down lists underneath.
- 3 If you use multiple monitors, you can set their respective positions by dragging their icons in the blue preview area to the appropriate location. Alternatively, you can configure your monitors to show the same image by checking *Mirror Screens*.
- 4 To show an applet icon in your system tray which enables you to rotate your screens, check *Show Displays in Panel*.

Figure 3.5 *Monitor Resolution Settings Dialog*



For more information about screen rotation support refer to Section “Rotating Your Display” (Chapter 33, *Using Tablet PCs*, ↑*Reference*).

3.2.6 Setting Sound Preferences

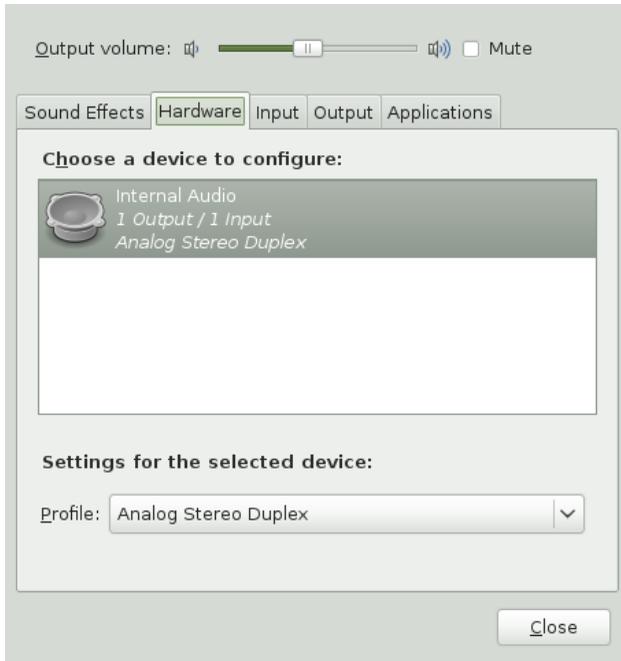
The *Sound Preferences* tool lets you manage sound devices. You can also specify which sounds to play when particular events occur.

Click *Computer > Control Center > Hardware > Sound* to open the *Sound Preferences* tool.

Setting Sound Devices

Use the *Hardware* tab to configure the device to use for various types of sounds.

Figure 3.6 *Setting Sound Devices*



Select one device present in the system from the list of available sound devices. Below the list, choose the sound device setting you prefer from the *Settings for the selected device* drop-down list. Here you can turn the device off, use only its input or output, or use both input and output of the sound device.

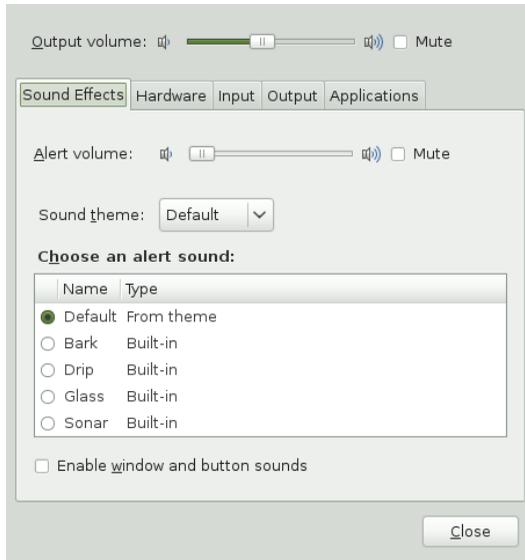
Use the *Input* tab to set the input device volume or to mute the input temporarily. You can also select default device for audio input in the *Choose a device for sound input* list.

Use the *Output* tab to set the device for sound output from the list of devices. Below the list, you can set detailed settings for the selected output sound device, like sound balance.

Setting Sound Effects

Use the *Sound Effects* tab to configure sound event functions.

Figure 3.7 *Setting Sound Effects Preferences*



Check *Enable window and button sounds* to play sounds when particular events occur in the desktop. -

Select the *Sound Theme* to use or select *No sounds* to switch sound themes off.

Check the alert sound you prefer from the list, and set the *Alert Volume*.

3.3 Look and Feel

In the following sections find examples of how to configure some look and feel aspects of your GNOME desktop, like the desktop background and screens saver, 3D desktop effects, themes, window behavior or menus.

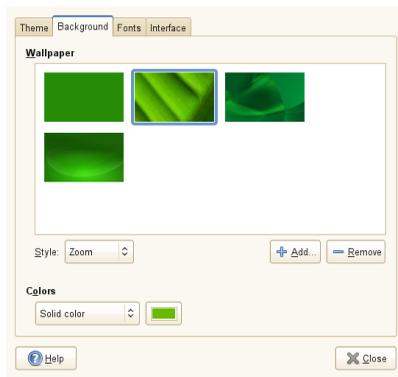
3.3.1 Changing the Desktop Background

The desktop background is the image or color that is applied to your desktop. You can customize the desktop background in the following ways:

- Select an image for the desktop background. The image is superimposed on the desktop background color. The desktop background color is visible if you select a transparent image or if the image does not cover the entire desktop.
- Select a color for the desktop background. You can select a solid color or create a gradient effect with two colors. A gradient effect is a visual effect where one color blends gradually into another color.

To change the desktop preferences:

- 1 Click *Computer > Control Center > Look and Feel > Appearance > Background*.

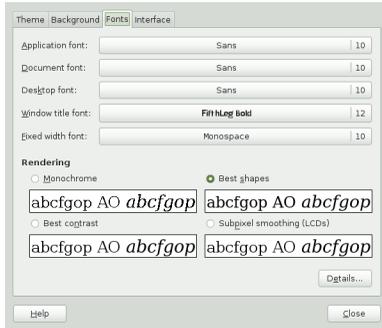


- 2 To change the picture on the background select one of the *Desktop Background* from the list and select the *Style* in which to arrange the image on the desktop. Your desktop immediately updates to show the new settings
- 3 To use a custom picture, click *Add* and select an image file from the file system.
- 4 If you do not want a picture on the background, select *No Desktop Background* from the *Desktop Background* list and specify a color scheme using the options in the *Color* drop-down list and the color selector buttons. Your desktop immediately changes to show the new settings
- 5 When you are satisfied with your choices, click *Close*.

3.3.2 Configuring Fonts

To select the fonts to use in your applications, windows, terminals and desktop, click *Computer > Control Center > Look and Feel > Appearance > Fonts*.

Figure 3.8 *Font Preferences Dialog*



The upper part of the dialog shows the fonts selected for applications, documents, the desktop, window titles and a fixed-width font for terminals. Click one of the buttons to open a selection dialog where you can set the font family, style and size. For more information on the individual options, click *Help*.

In the *Rendering* section, you can change the way fonts are rendered on the screen. There are four basic options: *Monochrome* (monochrome rendering without any smoothing), *Best Shapes* (rendering optimized for precise character shapes), *Best Contrast* (rendering optimized for high contrast) and *Subpixel Smoothing* (taking advantage of LCD subpixel structure). Advanced options for display resolution, smoothing, hinting and subpixel order are available after clicking on *Details*.

3.3.3 Configuring Menus and Toolbars

You can configure the appearance and behavior of menus and toolbars. Click *Computer > Control Center > Look and Feel > Appearance > Interface*.

If you want icons to appear in menus, select *Show icons in menus*. Not all menu items have icons.

If you want to be able to define new keyboard shortcuts for menu items, select *Editable menu shortcut keys*. When this option is enabled, you can change an application shortcut key by placing the mouse pointer over the menu item you want to change and pressing the new key combination. To remove a shortcut key combination, place the mouse pointer over the menu item, then press <— or Del.

IMPORTANT: New Keyboard Combinations Can Change Defaults

If you assign a new keyboard combination that was previously assigned to something else, you are not warned. The previous assignment is removed and replaced by the new one. There is no automatic way to restore the default keyboard shortcut for a command. You must manually reassign the keyboard shortcut.

This feature does not maintain shortcuts that are normally assigned to all applications, such as Ctrl + C for copy. This might lead to inconsistencies in your GNOME applications.

Select one of the following options to specify how toolbar button labels display in your GNOME-compliant applications:

Text below icons

Displays icon labels below the icons for each button.

Text beside icons

Displays icons on the toolbar, with text beside the most important icons.

Icons only

Displays icons only, without any text labels.

Text only

Displays text labels on each button, without icons.

A preview of the selected option appears in the dialog.

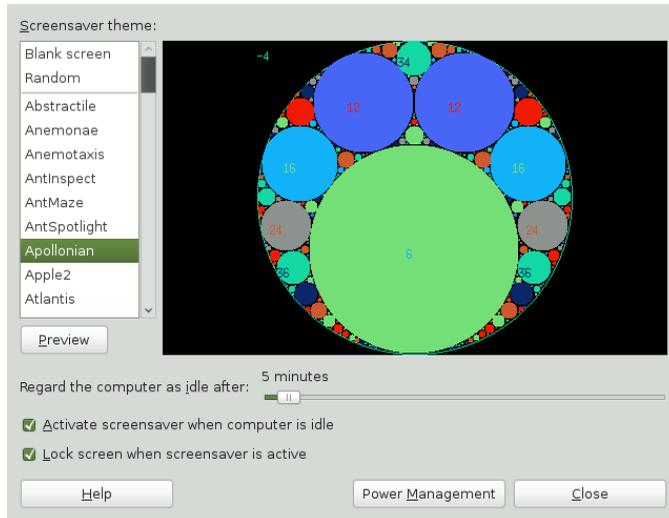
3.3.4 Configuring the Screen Saver

A screen saver is a program that blanks the screen or displays graphics when the computer is not used for a specified amount of time. Screen savers originally protected

monitors from having images burned into them. Now they are used primarily for entertainment or security reasons.

To configure a screen saver click *Computer > Control Center > Look and Feel > Screensaver*.

Figure 3.9 *Screensaver Preferences Dialog*



From the list on the left select the screen saver theme you like. You can also select *Random* for a random selection of a screen savers or just a *Blank Screen*. A preview of the currently selected screen saver appears on the right or, by pressing the *Preview* button, you can test the selected screen saver in a fullscreen mode.

Use the slider to specify the amount of time that the computer is to be idle before the screen saver is activated. If you want the screen saver to be activated after the specified time the *Activate screensaver when computer is idle* checkbox should be checked. If you also want the screen to lock automatically when the screen saver is activated the *Lock screen when screensaver is active* checkbox should be checked.

You can also access general power management options from here by clicking *Power management*.

3.3.5 Choosing a Theme

A theme is a group of coordinated settings that specifies the visual appearance of a part of the desktop. You can choose themes to change the appearance of the desktop. Use the *Theme* tab of the *Appearance* tool to select from a list of preinstalled themes. The list of available themes includes several themes for users with accessibility requirements.

To choose a theme, click *Computer > Control Center > Look and Feel > Appearance > Theme*.

Basic appearance and color settings for the desktop and applications are controlled using themes. You can choose from a variety of preinstalled themes. Selecting a style from the list overview applies it automatically. *Customize* opens another dialog where you can customize the style of single desktop elements like window content, window borders, and icons. Making changes and leaving the dialog by clicking *Close* causes the theme to switch to *Custom Theme*. Click *Save As* to save your modified theme under a custom name. The Internet and other sources provide many additional themes for GNOME as `.tar.gz` files. Install these with *Install...*

The *Customize Theme* dialog has the following tabs and options:

Controls

The controls setting for a theme determines the visual appearance of windows, panels and applets. It also determines the visual appearance of the GNOME-compliant interface items that appear on windows, panels and applets (such as menus, icons and buttons). Some of the control settings that are available are designed for special accessibility needs. You can select a control setting in the *Controls* tab of the *Customize Theme* dialog.

Colors

The colors of the text in windows, input boxes, selected items and tooltips (as well as color of the text background) can be configured in the *Colors* tab of the *Customize Theme* dialog.

Window Border

The window border setting for a theme determines the appearance of the borders around windows (window decorations). You can select the window border settings in the *Window Border* tab of the *Customize Theme* dialog.

Icons

The icon setting for a theme determines the appearance of the icons on panels and the desktop background. You can select the icon settings in the *Icons* tab of the *Customize Theme* dialog.

Pointer

The style and size of the mouse pointer can be configured in the *Pointer* tab of the *Customize Theme* dialog.

Procedure 3.1 *Creating a Custom Theme*

The themes that are listed in the *Theme Preferences* tool are different combinations of control settings, window frame options and icon options. You can create a custom theme that employs different combinations of options. To create a custom theme:

- 1 Click *Computer > Control Center > Look and Feel > Appearance > Theme*.
- 2 Select a theme from the list of themes and click *Customize*.
- 3 Select the controls option you want to use in the custom theme from the list in the *Controls* tabbed page.
- 4 Click the *Colors* tab, then select colors you want to use for windows, input boxes, text and other parts of the interface. Some control themes do not support setting custom colors.
- 5 Click the *Window Border* tab and select the window frame option that you want to use in the custom theme.
- 6 Click the *Icons* tab and select the icons option that you want to use in the custom theme.
- 7 Click the *Pointer* tab and select the mouse pointer option that you want to use in the custom theme.
- 8 Click *Close > Save As*.

A *Save Theme* dialog is displayed.

- 9 Type a name and a short description for the custom theme in the dialog, then click *Save*. The custom theme now appears in your list of available themes.

Procedure 3.2 *Installing a New Theme*

You can add a theme to the list of available themes. The new theme must be a compressed archive file (a `.tar.gz` file).

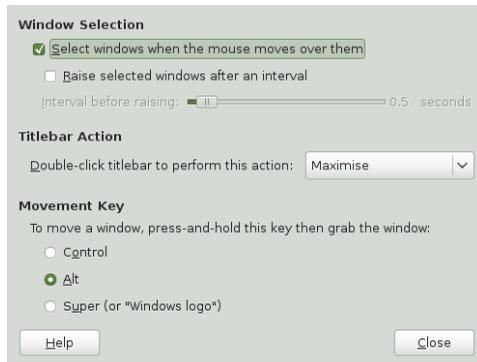
- 1 Click *Computer > Control Center > Look and Feel > Appearance > Theme*.
- 2 Click *Install*.
- 3 Select the file and click *Open*.
- 4 If you want to apply the new theme immediately click *Apply New Theme*. You can also *Keep Current Theme*.

3.3.6 Customizing Window Behavior

Use the *Window Preferences* tool to customize window behavior for the desktop. You can determine how a window reacts to contact with the mouse pointer or to double-clicks on its title bar and you can define which key to hold for moving an application window.

To customize window behavior click *Computer > Control Center > Look and Feel > Windows*.

Figure 3.10 *Window Preferences Dialog*



When several application windows populate the desktop, the active window by default is the one last clicked. Change this behavior by activating *Select Windows When the*

Mouse Moves over Them. If desired, activate *Raise Selected Window after an Interval* and adjust the latency with the slider. This raises the window a short time after the window receives focus.

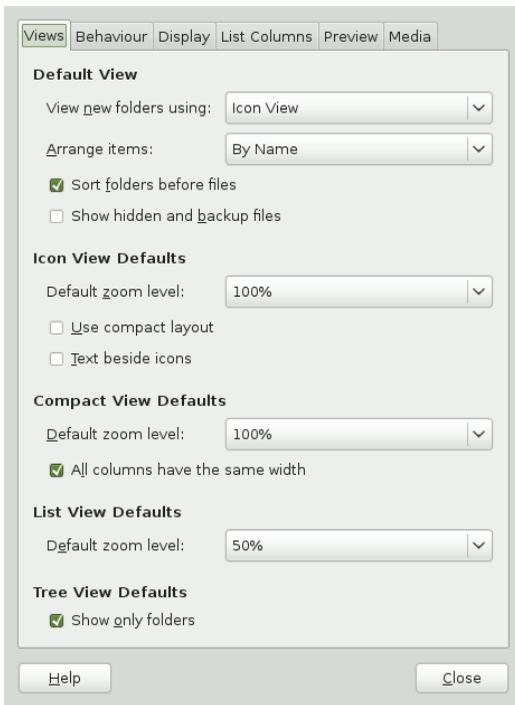
Under *Titlebar Action*, it is possible to specify an action that is performed when the window's title bar is double-clicked. Select the desired action from the drop-down list. Possible actions include minimizing the window, maximizing it in one or both directions or rolling it up, leaving only the title bar visible. The default behavior is for the title bar to maximize in both directions.

Using the radio buttons, select a modifier key to press for moving a window (Ctrl, Alt or the Windows key).

3.3.7 Configuring File Management Preferences

The file management preference include settings for the GNOME file manager Nautilus as well as the settings for handling of removable media. You can access the preferences in the Control Center by clicking *Computer > Control Center > Look and Feel > File Management* or directly from Nautilus by clicking *Edit > Preferences*.

Figure 3.11 *File Manager Preferences*



- 1 On the *Views* tab define options for various Nautilus views. For example, select if Nautilus should show hidden files and backup files.
- 2 On the *Behavior* tab define several options such as to open files or folders in Nautilus upon single or double mouse-click, or to include a *Delete* menu item in Nautilus which deletes files or folders directly from your file system instead of moving them to the trash.
- 3 On the *Display* tab configure the date format and the way icon captions appear in Nautilus.
- 4 Switch to the *List Columns* tab to configure the columns that appear in Nautilus, as well as the order in which they appear.
- 5 Click the *Preview* tab to specify for which files to show previews in Nautilus and if folders should show the number of items they contain.

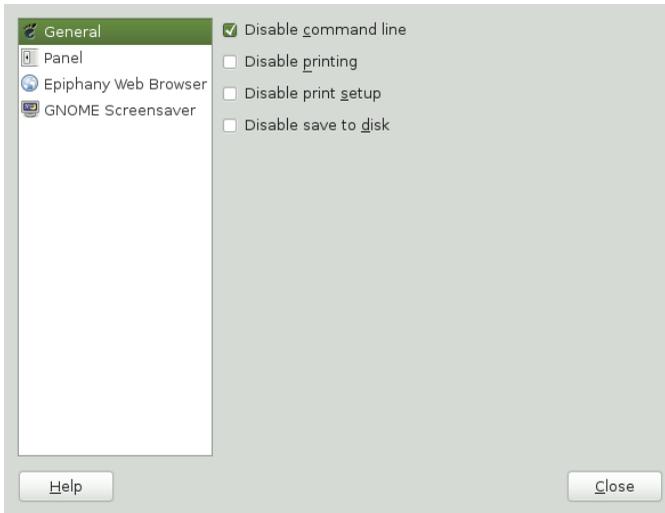
- 6 Click the *Media* tab to specify actions that should be performed automatically whenever media such as audio CDs, video DVDs, blank disks, media players, digital cameras and other devices are connected. In general, you do not need to change these settings unless you want to change the behavior of a device when connected. If you attach a device for the first time and it behaves in an unexpected or undesired way, change the settings for the particular device.
- 7 For more information on the available options click *Help*.
- 8 Click *Close* when you are ready to apply changes.

3.3.8 Locking Desktop Functions

openSUSE ships with a graphical lockdown editor (`pessulus` package) that lets you disable (lockdown) certain desktop functions. This is useful if you want to restrict the actions that users can perform on a computer. For example, you might want to prevent command line operations on a computer that is for public use at a trade show.

If the `pessulus` package is already installed, start the Lockdown Editor from the main menu with *Computer > Control Center > Look and Feel > Lockdown Editor* or press `Alt + F2` and enter `pessulus`.

Figure 3.12 *General Lockdown Editor Settings*



When the Lockdown Editor starts, it tries to connect to the GConf mandatory configuration source (`xml:merged:$prefix/etc/gconf/gconf.xml.mandatory`). If you run `pessulus` as `root`, you have access to this configuration source and a lock icon is displayed next to the checkbox for each setting. Click the lock to specify if the setting is mandatory. If the setting is mandatory, regular users will not be able to change or override the setting. If you do not have access to the mandatory configuration source, the lock icon does not appear. In this case, all disabled settings are stored in the user's default configuration source and can be modified later using other tools such as `gconf-editor` or `gconftool-2`. For more information about GConf and mandatory configuration sources see “Using GConf” [<http://library.gnome.org/admin/system-admin-guide/stable/>] in the *GNOME Desktop System Administration Guide*.

Click a category on the left to view the settings for this category that can be disabled.

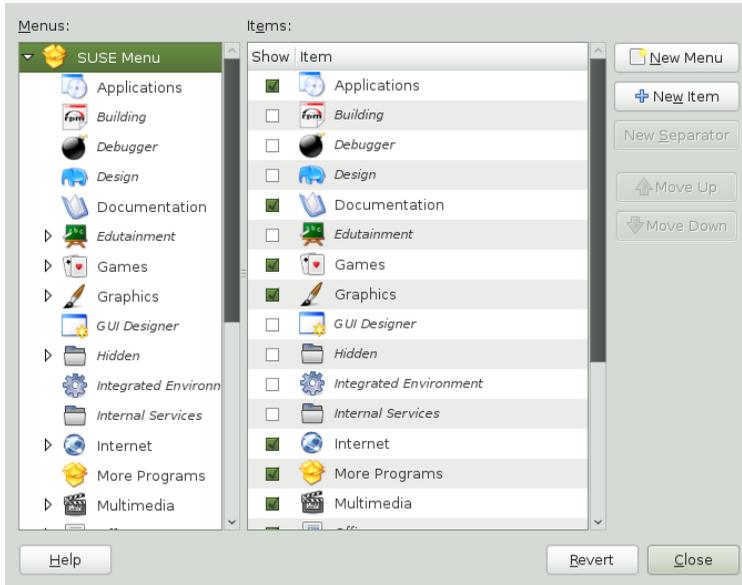
- 1 To disable access to the command line, saving to disk and printing (or prevent the user from modifying print settings) set the relevant options in the *General* category.
- 2 Use the options in the *Panel* category to lock down the panel, disable the panel applets you specify and disable the force quit, lock screen and log out options.

- 3 Use the options in the *Epiphany Web Browser* category to control access to features in Epiphany.
- 4 Use the options in the *GNOME Screensaver* category to lock the screen (when the screen saver goes active), enable or disable the logout (after a delay option in the unlock dialog box) and to enable or disable the switch user option in the unlock dialog box.
- 5 For more information on the available options of each category, click *Help*.
- 6 If all options are set according to your wishes, click *Close* to apply the changes.

3.3.9 Customizing the Main Menu

Use the *Main Menu* tool to customize the traditional GNOME main menu. The traditional GNOME menu is not enabled by default, but you can add it to your GNOME panel by right-clicking it and choosing *Add to Panel > Traditional Main Menu > Add > Close*. To customize the traditional GNOME main menu, use *Computer > Control Center > Look and Feel > Main Menu*.

Figure 3.13 *Main Menu Editor*



The current main menu submenus are displayed on the left of the main window, the items belonging to the selected submenu are shown on the right. Groups in a submenu are nested below that submenu. To find an item, click the arrow next to a submenu in the *Menus* list, select the group containing that item and locate the item in the *Items* list.

NOTE: Implications of Main Menu Changes

Changes you make to the main menu are not overwritten during a subsequent system update. Changes are applied after the latest menu view is generated.

Procedure 3.3 *Editing the Main Menu*

You can change the order in which items appear in the main menu, rename menu items, show (or hide) menu items, delete items from the menu or add new menu items. For example, you might want to place your frequently used applications at the top of the menu or at the top of their groups to make them easier to find. Adding new items to the main menu is helpful when you install an application, but it is also useful if

you have other applications that do not currently appear on the menu. You can also add a directory, a link or another type of item to the menu.

- 1** To move a menu item click the menu item in the *Items* list on the right and drag it to a new location in the menu. You can move the item to a new location in the same menu or drop it on an item in the *Menus* list (to move it to a new menu or group). Use the *Move Up* and *Move Down* buttons to change an item's location in the menu.
- 2** To rename an existing menu item right-click the item in the *Items* list, select *Properties* and enter a new name.
- 3** To hide an item (so it does not appear in the menu) deactivate the checkbox next to the item in the *Items* list. An activated checkbox indicates that the item is currently shown in the menu. When an item is hidden it still remains in the *Items* list and can be shown at any time you decide you want it to (re)appear in the menu.
- 4** To delete an item from the *Items* list right-click the item and click *Delete*. If you want to show a deleted item in the menu again you must add it like you would a new application.
- 5** To add a new item, proceed as follows:
 - 5a** In the *Menus* list click the arrow next to the menu containing the group where you want to add the application, then select the group. The contents of that group appear in the *Items* list.
 - 5b** Click *New Item* and select the *Type* of menu item to add. For example, to add an application select *Application*.
 - 5c** Click *Browse* and select the item to add.
 - 5d** Enter a *Name* for the new menu item.
 - 5e** If you want a short description to appear in the main menu during a hover state enter the description in the *Comment* field.
 - 5f** If you want to assign an icon to the new item, click the image frame on the left, then select an icon for the item. If you do not select an icon, the item appears in the menu without an icon.

- 6 If you want to restore the default menu layout click *Revert*.
- 7 If all options are set according to your wishes click *Close* to apply your changes.

NOTE

The first time you use the *Main Menu* application to edit the menu, changes do not take effect until your next login. Subsequent changes appear immediately.

3.3.10 Configuring Desktop Effects

Compiz is a compositing window manager for the X Window System that uses 3D graphics hardware to create fast compositing desktop effects for window management. Effects are implemented as loadable plugins. Compiz lets you turn your desktop into a rotating 3D cube, tile windows so they do not overlap and switch tasks while viewing live thumbnails. You can enable translucent or transparent windows, zoom in and out of the desktop screen, and use other window effects such as shadows, fading and transformations. You can also configure windows to snap to other windows and screen edges when they are moved.

Figure 3.14 3D Desktop

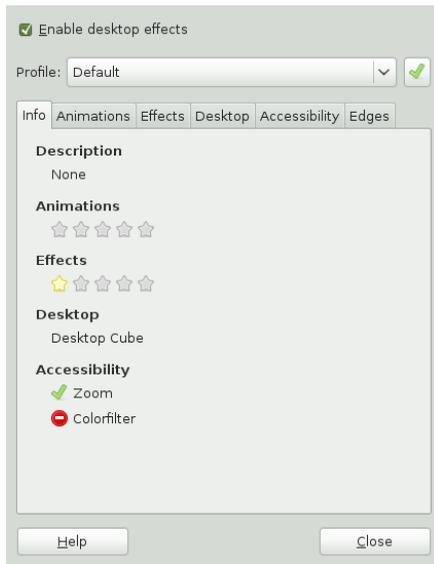


Enabling Desktop Effects

To enable desktop effects you need a graphics adapter capable of providing 3D support and the graphics driver that Linux uses to operate the graphics adapter. This driver must be able to handle OpenGL (or 3D) requests from the Linux kernel. If your configuration is compatible with desktop effects it will be enabled by default. If your configuration does not support desktop effects you will be warned upon activation.

To enable or disable desktop effects follow these steps:

- 1 Click *Computer > Control Center*.
- 2 Click *Desktop Effects* in the *Look and Feel* group.



- 3 If your system is configured for desktop effects check *Enable Desktop Effects*. To keep desktop effects enabled press *Yes* in the dialog that opens. Otherwise, the desktop effects will be deactivated automatically in ten seconds.

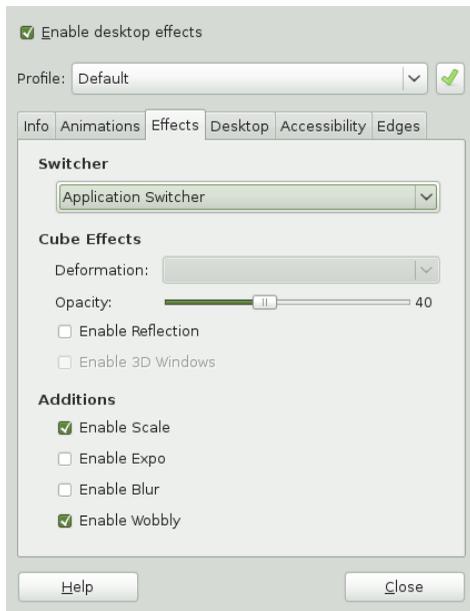
To disable desktop effects uncheck the *Enable Desktop Effects* option.

- 4 The default set of desktop effects is now enabled. You can change the enabled effects and their settings on the several tabs of the *Desktop Effects* dialog or just select a *Profile* from the dropdown list. To activate the selected profile press the green button.

Modifying Desktop Effects

A simplified configuration tool for desktop effects is included in the *Look and Feel* section of GNOME Control Center. Open *Desktop Effects* tool from the main menu by clicking *Computer > Control Center > Look and Feel > Desktop Effects*.

Figure 3.15 *Desktop Effects Configuration*



- 1 Use the *Info* tab to get general information about the current desktop effect settings.
- 2 Use the options on the *Animations* tab to specify what happens when you open, close, focus or minimize windows.
- 3 Use the options on the *Effects* tab to specify what type of *Switcher* to use. This is the desktop effect activated when switching between windows using the **Alt + →** combination. This is where you can set various desktop effects like opacity of the desktop cube or wobbling windows.
- 4 Use the options on the *Desktop* tab to configure the representation of virtual desktops you want to use (three dimensional *Desktop Cube* or planar *Desktop Wall*) and to set how many virtual desktops you want to use.
- 5 Use the options on the *Accessibility* tab to configure screen and area zoom.
- 6 Use the *Edges* tab to configure functions associated with active screen edges.

- 7 For more information on the individual options, click *Help*.
- 8 If all options are set according to your wishes, click *Close* to apply the changes.

NOTE: Advanced Configuration Tool

An advanced configuration tool can be started from the *Look and feel* menu by clicking *CompizConfig Settings Manager*, or from a terminal emulator with command `ccsm`. This offers a greater selection of configuration options than the simplified tool in GNOME Control Center.

You can also use `gconf-editor` to change desktop effects settings.

- 1 Click *Computer > More Applications > System > GNOME Configuration Editor* or press `Alt + F2` and enter `gconf-editor`.
- 2 Navigate to the `apps/compiz/general` and `apps/compiz/plugins` registry folders and make the desired changes.
- 3 Click *File > Quit* to close the *Configuration Editor*.

Desktop Effects Shortcuts

The following table contains a list of the default keystrokes and mouse movements you can use to perform desktop effects. To change any of these shortcuts, see use the advanced configuration tool (*CompizConfig Settings Manger*). The shortcuts for zoom function can be configured in the *Desktop Effects* tool available from GNOME Control Center.

Table 3.1 *Desktop Effects Shortcuts*

Effect	Shortcut
Panoramic view of all desktops (if the desktop cube effect is enabled)	<code>Ctrl + Alt + ↓</code> (use the Left and Right arrows to scroll)
Rotate desktop cube (if the desktop cube effect is enabled) or switch desktops (if the desktop wall effect is enabled)	<code>Ctrl + Alt + ←</code> or <code>→</code> (<code>↑</code> or <code>↓</code> keys can be used in case of desktop wall effect with multiple rows)

Effect	Shortcut
Rotate desktop cube manually (if the desktop cube effect is enabled)	Ctrl + Alt + left-click the desktop and drag the mouse pointer
Rotate desktop cube (if the desktop cube effect is enabled) or switch desktops (if the desktop wall effect is enabled) while keeping the current active window with you	Ctrl + Alt + Shift + ← or →
Switch windows (thumbnail view)	Alt + →
Wobbly window (if the wobbly effect is enabled)	Left-click the window and drag
Zoom in manually (if the screen zoom is enabled)	Super key (Windows key) and scroll wheel up
Zoom out manually (if the screen zoom is enabled)	Super key (Windows key) and scroll wheel down
Zoom in area under mouse pointer (if the area zoom is enabled)	Shift, super key (Windows key) and scroll wheel up
Zoom out area under mouse pointer (if the area zoom is enabled)	Shift, Super key (Windows key) and scroll wheel down

3.4 Personal

The following sections introduce examples of how to configure some personal aspects of your GNOME desktop, like your password or keyboard shortcuts. For configuration of assistive technologies refer to Chapter 4, *Assistive Technologies* (page 85).

3.4.1 Changing Your Password

For security reasons, it is a good idea to change your login password from time to time. To change your password:

- 1 Click *Computer > Control Center > Personal > About Me*.
- 2 In the upper right corner, click *Change password*.
- 3 Type your old (current) password.
- 4 Type your new password.
- 5 Confirm your new password by typing it again, then click *Change Password*.

3.4.2 Customizing Keyboard Shortcuts

A keyboard shortcut is a key or combination of keys that provide an alternative to standard ways of performing an action. You can customize the keyboard shortcuts for a number of actions.

To open the Keyboard Shortcuts tool click *Computer > Control Center > Personal > Keyboard Shortcuts*.

Figure 3.16 *Keyboard Shortcuts Dialog*



To change the shortcut keys for an action, select the action and then press the keys you want to associate with the action. To disable the shortcut keys for an action, click the shortcut for the action, then press <—.

3.5 System

In the following sections you will find examples of how to configure some system aspects of your GNOME desktop like language settings, power management, preferred applications, session (and session sharing) preferences, Beagle search options and audio preferences.

3.5.1 Configuring Language Settings

openSUSE can be configured to use any of a number of languages. The language setting determines the language of dialogs and menus and can also determine the keyboard and clock layout.

You can set the following language settings:

- Primary language
- Whether the keyboard language setting should correlate to the primary language
- Whether the time zone should correlate to the primary language
- Secondary languages

To configure your language settings:

- 1 Click *Computer > Control Center > System > Language*.
- 2 Enter the `root` password.

If you do not know the root password contact your system administrator. You cannot continue without the root password.

- 3 Specify the primary language, whether you want to adapt the keyboard layout or time zone to the primary language, and any secondary languages you need to support on the computer.
- 4 Click *Accept*.

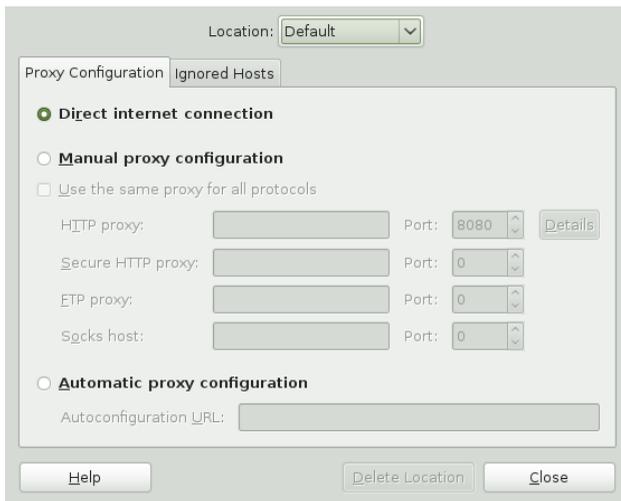
The language configuration settings are written to several configuration files. This process can take a few minutes. The new settings take effect immediately after they are written to the configuration files.

3.5.2 Configuring Network Proxies

The Network Proxy Configuration tool lets you configure how your system connects to the Internet. You can configure the desktop to connect to a proxy server and specify the details of the server. A proxy server is a server that intercepts requests to another server and fulfills the request itself, if it can. You can specify the Domain Name Service (DNS) name or the Internet Protocol (IP) address of the proxy server. A DNS name is a unique alphabetic identifier for a computer on a network. An IP address is a unique numeric identifier for a computer on a network.

Click *Computer > Control Center > System > Network Proxy*.

Figure 3.17 *Network Proxy Configuration Dialog*



For more information on the individual options, click *Help*.

3.5.3 Configuring Power Management

The Power Management module lets you manage your system's power-saving options. It is especially useful for extending the life of a laptop's battery charge. However, several options also help to save electricity when you are using a computer that is plugged in to an electrical power outlet.

Sleep mode shuts down the computer when it is dormant for a specified period of time. Whether you are using battery or AC power, you can specify the period of time that the computer remains dormant before it is put to sleep. You can also put the computer's display to sleep without shutting down the computer, saving the power required by the display.

Sleep mode is especially important when the computer is operating under battery power. Both the screen and the computer draw power from the battery, so you can save a significant amount of battery power by shutting down one or both. It is common to put the display to sleep after a shorter period of time. Then, if the computer remains dormant for an additional period of time, it is also put to sleep.

There are several sleep modes or actions you can set in the Power Management module:

Do nothing

The computer does not shut down or automatically go into any kind of power-saving mode. If you have a laptop, the laptop continues to run normally when the lid is closed.

Blank screen

The screen is blanked, reducing power consumption.

Suspend

Suspend mode turns off power-consuming computer components such as the display and the hard drive without saving the contents of RAM. Any unsaved data is lost.

Hibernate

The computer saves the contents of RAM to the hard disk and shuts down. When you turn the computer on again, the saved data is put back into RAM, restoring your computer to its previous state. *Hibernate* requires an amount of free hard disk space equal to the amount of RAM installed on the computer.

To open the Power Management module, click *Computer > Control Center > System > Power Management*.

Procedure 3.4 *Specifying Your Computer's Sleep Settings*

- 1** Click the tab for the type of power you are using: if your computer uses AC power click *On AC Power*. If your computer runs on battery power click *On Battery Power*. If your computer operates on both AC and battery power, you can configure the settings on both tabs.
- 2** Use the drop-down lists to set the amount of inactive time that passes before the display and computer go into sleep mode.

When the display is in sleep mode, the computer continues to run. When the computer is in sleep mode, power to the display and hard disk is shut off and the computer uses only the power needed to maintain the contents of RAM.

- 3** If the computer is a laptop, set the actions you want taken when the laptop lid is closed.
- 4** You can also save some energy by enabling the hard disk to spin down during idle times.
- 5** If you configure how a laptop manages battery power, specify the action you want taken if battery power reaches a critical level.

Choose the option you prefer by selecting it from the menu. If you have sufficient free disk space, *Hibernate* is the best choice.

- 6** In the *Display* pane, specify the amount of time after which the display will enter the sleep mode. You can set other options for idle mode here as well, like dimming the display or reducing backlight brightness.
- 7** On the *General* tab you can set further options, for example the action to take when the power button is pressed or the sleep type to use when the computer is inactive. The options available there depend on the type of computer you use (laptop or other computer).
- 8** You can also define when and how to display the power icon in the notification area.

- 9 When all options are set according to your wishes, click *Close*. The options you selected go into effect immediately.

3.5.4 Setting Preferred Applications

The Preferred Applications module allows you change the default application for various common tasks such as browsing the Internet, sending mails or transferring data with FTP.

Figure 3.18 *Preferred Applications*



- 1 Click *Computer > Control Center > System > Preferred Applications*.
- 2 Click the tab for the type of application you want to set.
- 3 Select one of the available applications from the drop-down list or enter the command used to start the application.
- 4 Click *Close*.

The changes take effect immediately.

3.5.5 Setting Session Sharing Preferences

The *Remote Desktop Preference* dialog box lets you share a GNOME desktop session between multiple users and set session-sharing preferences.

IMPORTANT: Sharing Desktop Sessions Affects System Security

Be aware that sharing desktop sessions can be a security risk. Use the restriction options available. If you need to adjust the options to a lower security level, do not forget to switch back to a higher security level as soon as possible.

- 1 Click *Computer > Control Center > System > Remote Desktop*.

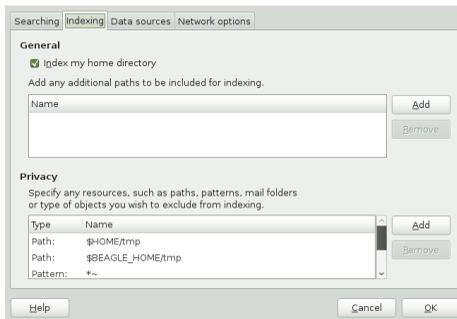


- 2 To share your desktop session with other users activate *Allow other users to view your desktop*. All keyboard, pointer and clipboard events from the remote user are ignored.
- 3 If you want or need to allow other users to access and control your session from a remote location, activate *Allow other users to control your desktop*. Click the highlighted text below to send the system address by e-mail to a remote user.
- 4 Make use of the security options available. If *Ask you for confirmation* is activated, remote users require your confirmation before they can connect to your session. To achieve a higher security level, activate *Require the user to enter this password* (if authentication is used).

3.5.6 Configuring Search with Beagle Settings

Beagle is the search engine used on the GNOME desktop. By default, Beagle is configured to start automatically and index your home directory. If you want to change these settings, specify the number of results displayed after a search or change the Beagle privacy settings, click *Computer > Control Center > System > Search Settings*.

Figure 3.19 *Search Preferences*



For more information, see Section 6.4, “Setting Search Preferences” (page 108) and Section 6.6, “Preventing Files and Directories from Being Indexed” (page 110).

3.5.7 Setting Software Updates

The *Software Updates* tool lets you configure the frequency of update checking, automatic updates and update notifications.

- 1 Click *Computer > Control Center > System > Software Updates* to open the *Software Updates Preferences* tool.
- 2 In the *Update Settings* section, set the frequency of update checking and whether updates should be installed automatically. You can limit automatic installation to security updates.
- 3 Click *Close*.

3.5.8 Configuring Administrative Settings with YaST

For your convenience, YaST is available from the Control Panel as well as the Applications menu. For information about using YaST, refer to *Start-Up* (↑*Start-Up*).

Assistive Technologies

The GNOME user interface includes many accessibility features and assistive technologies. All applications in the GNOME Desktop have specially designed accessibility features. Thanks to the many customization tools users with with physical disabilities can use all features of the GNOME Desktop.

This chapter describes several assistive technology applications designed to meet the needs of users with physical disabilities like low vision or impaired motor skills.

4.1 General Accessibility Features

A number of technologies can be of assistance to people with different types of disabilities. These are covered in this section.

For a more detailed guide, see: <http://library.gnome.org/users/gnome-access-guide/>

4.1.1 Desktop Appearance Enhancement

There are several ways to customize the appearance of the GNOME desktop. Themes are the most effective way to change the appearance of the desktop in a consistent manner. You can also customize different applications and the desktop to get the display settings that you need, in addition or as an alternative to themes. For details, see Chapter 3, *Customizing Your Settings* (page 45).

Font Settings of the Desktop

If you have difficulties with the default font type and size on the desktop and desktop background, you can customize the font settings to suit your needs.

To change the font, select *Computer > Control Center > Appearance*. The *Fonts* tab contains the following options:

Application Font

Application Font selects a default font for the text that is displayed on the desktop, including the text displayed on the windows and dialogs associated with GNOME-compliant applications.

Document Font

Document Font selects a font for displaying documents.

Desktop Font

Desktop Font selects a font to use for the text that is displayed on the desktop background only.

Window Title Font

Window Title Font selects a font for the text that is displayed in the title bar area of windows.

Fixed Width Font

Fixed Width Font selects a font to use for editing documents.

Font Rendering

To specify how to render fonts on the desktop select either:

- *Monochrome*,
- *Best Shapes*,
- *Best Contrast*
- or *Subpixel Smoothing*.

If you use large fonts, you may need to change the size of panes in some applications, such as the file manager and Help browser.

By default, GNOME applications use the default font specified in the *Appearance Preference* tool. Some applications allow this default font to be customized.

Desktop Contrast

If you have difficulties with the desktop contrast, you can change the contrast.

To change change the contrast theme, select *System > Control Center > Appearance Preferences > Theme*. The *Theme* tab contains several high- and low-contrast themes.

To customize the desktop background, select *System > Control Center > Appearance Preferences > Background*.

- Set the *Desktop Wallpaper* to *No Wallpaper*.
- Set the *Desktop Colors* to “Solid Color”.
- Select a background color that suits your needs.

Ensure that the *Use colors from system theme* option is selected in the *Colors* tabbed section of the *Editing Profile* dialog.

In the gedit text editor, ensure that the *Use default theme colors* option is selected in the *Colors & Fonts* tabbed section of the *Control Center* dialog.

a Large-Print Desktop

If you have problems with the desktop print size, you can select the *Large Print* theme. To configure the large-print desktop, click on *System > Control Center > Appearance Preferences > Theme* and select *Large Print*.

Click on the *Apply Font* to increase the size of the font that is used on the desktop and on window frames.

If you use applications that use panes, like the file manager and help browser, you may need to change the size of panes to accommodate the large print. See the online help for the appropriate application for more information.

4.2 Mobility Impairments

Mobility impairments can have many causes. Poor muscle control or weakness can make using standard keyboards and mouse devices difficult. For instance, some people are unable to type two keys simultaneously, others hit multiple keys or bounce keys when pressing or releasing them. People who are able to use only one hand often have difficulties with some keyboard and mouse tasks.

4.2.1 Mouse Behavior

The following sections describe how to modify the behavior of the mouse to suit your needs.

Mouse for Left-Handed Use

If you have difficulties using the right-handed mouse, you can change the mouse setting to left-handed. To configure the mouse for left-handed use, select *Control Center > Mouse Preference* and select the *Left-handed* mouse orientation. When you select this option, the system swaps the functions of the left and the right mouse button.

Double-Click Behavior

If you have difficulties double-clicking, you can increase the period of time that the system between the first and the second click of a double-click. For example, if the double-click timeout setting is 0.4 seconds, you must perform the second click of a double-click within 0.4 seconds of the first click. If the second click occurs more than 0.4 seconds after the first click, the system interprets the two clicks as two single clicks.

To configure the double-click timeout setting, select *System > Control Center > Mouse Preferences* and specify the *Double-Click Timeout*. Double-click on the light bulb to the right of the slider to test the setting. If you perform the two clicks of the double-click within the specified period, the light bulb energizes fully to display a yellow glow around the bulb. If you do not double-click within the timeout specified, the light bulb does not energize fully. You should increase the timeout setting and try again. When the light bulb energizes, the timeout setting is suitable for your needs.

Mouse Speed and Sensitivity

If you have difficulties with the behaviour of the pointer, you can change the speed and sensitivity of the pointer. To configure the speed and sensitivity of the pointer, select *System > Control Center > Mouse Preferences > General*.

Use the *Sensitivity* slider to specify how responsive the pointer is to movements of the mouse. Moving the slider to the right will increase sensitivity and moving it to the left will decrease sensitivity.

Use the slider in the *Drag and Drop* section to modify the distance that you must move an item with the pointer before the action is interpreted as a drag and drop action.

If you select a low acceleration setting, the pointer moves at a speed similar to the speed at which you are physically moving the mouse or other pointer device. This means that you need to physically move the mouse larger distances to cover the screen area. If you select a high setting, the pointer moves at a faster speed than the speed at which you physically move the mouse. This means that you need to physically move the mouse smaller distances to cover the screen area.

Accessible Keyboard

Use the *Keyboard Preference* tool to configure the keyboard accessibility options. To open the *Keyboard Preference* tool, choose *System > Control Center > Keyboard*. Accessibility options can be enabled by selecting the *Accessibility* tab.

Accessible Mouse

Use the *Mouse Preferences* tool to configure the mouse accessibility options. To open the *Mouse Preferences* tool, choose *System > Control Center > Mouse Preferences*. Accessibility options can be enabled by selecting the *Accessibility* tab.

4.2.2 GNOME On-Screen Keyboard

The GNOME On-Screen Keyboard (GOK) displays virtual keyboards on your desktop. You can use the standard pointer or an alternative pointing device to operate the virtual keyboards. GOK displays the following types of keyboards:

- Composer Keyboards enable you to compose text. To type alphanumeric characters, select the characters on the composer keyboard.
- Dynamic Keyboards reflect the applications that are currently running on the desktop. For example, On-Screen Keyboard generates dynamic keyboards that contain keys to represent the applications that are running on your desktop or the menus that are contained in an application.

You must enable assistive technology services before you are able to use many of the available *Accessibility* tools.

- 1 Choose *System > Control Center > Assistive Technologies*.
- 2 Select *Enable assistive technologies* and press *Close* and *Log Out*.
- 3 Log back in. Assistive technology services are now activated.

4.2.3 Maximizing Application Windows

If you are an On-Screen Keyboard user, you cannot use any application in Full-Screen mode because the application window obscures the On-Screen Keyboard display.

To resize the window for use with the On-Screen Keyboard application, perform the following steps:

- 1 Do not enable the Full-Screen mode in the application.
- 2 Give focus to the application window.
- 3 Press F10 to maximize the application.

4.3 Orca

Visual limitations range from low vision to blindness. Users with visual disabilities encounter problems when seeing text or images on a computer screen and when performing tasks that require hand-eye coordination, like moving a computer mouse. Text size and color can make a big difference in legibility for people with low vision.

Orca is a flexible, extensible, and powerful assistive technology for people with visual impairments. Using various combinations of speech synthesis, braille and magnification, the Orca Screen Reader and Orca Magnifier application enable users with limited or no vision to use the GNOME desktop and associated applications. The screen reader also supports Braille.

4.3.1 Running Orca

For a text-only guided setup, open a *Run* dialog with `Alt + F2`, enter `Orca text-setup` and press `Enter`.

The first time Orca is launched you will be presented with a list of languages from which to choose. Enter the ID number of your language (for example, `7` for American English) and press `Enter`.

When you run Orca for the first time, it will automatically enter setup mode. If you want to run setup at some later point, you can pass the `setup` option to Orca the next time you run it. Furthermore, while Orca is running you can press `Ins + Space` to bring up Orca's configuration GUI. Finally, Orca provides a text setup utility that you can start by passing the `--text-setup` option to Orca. All of these options will create a `~/ .orca/user-settings.py` file that holds your Control Center and will also enable the accessibility infrastructure. You need to log out and log back in for the new setting to take effect.

Start Orca by typing `orca` in a terminal session window. You can do so from a virtual console window if you do not yet have access to the GUI. With the GUI installed you can also press `Alt + F2` to bring up the *Run* dialog and then type the command `orca` (followed by any optional parameters) and press `Enter`. Orca will automatically enter text setup mode if you run it from a virtual console window or if your GUI environment is not yet set up for accessibility.

To quit Orca press `Ins + Q` (or `CapsLock + Q` in laptop layout mode). A *Confirmation* dialog will appear.

4.3.2 Braille Page

The braille page allows you to customize various aspects of braille usage.

The first control on the braille page is the *Enable braille support* check box. This check box toggles whether or not Orca will make use of a braille display.

Orca's braille monitor provides an on-screen representation of what takes place on the braille display. This feature is mostly for demonstration purposes, but is also useful for Orca developers who do not have access to a braille display.

The *Abbreviated role names* check box determines the manner in which role names are displayed and can be used to help conserve real estate on the braille display.

When checked, this feature tells Orca to not present the \$1 string at the end of a line.

The *verbosity* radio button group determines the amount of information that will be, in certain situations, converted to braille.

4.3.3 Magnifier Page

The magnifier page allows you to enable/disable magnification and specify how magnification is performed.

The first control on the magnifier page is the *Enable magnifier* check box. This check box toggles whether or not Orca will provide magnification. This option, along with the ability to enable speech and to enable braille support, allows Orca to be tailored to meet the needs of a wide variety of users.

Two zoomer GUI controls determine magnification characteristics: *Scale factor*, which sets magnification power and *Position*, which sets the location and size of the magnifier window.

Part II. Internet Connectivity, Files and Resources

Accessing Network Resources

From your desktop, you can access files and directories or certain services on remote hosts or make your own files and directories available to other users in your network. openSUSE® offers the following ways of accessing and creating network shared resources.

Network Browsing

Your file manager, Nautilus, lets you browse your network for shared resources and services. Learn more about this in Section 5.3, “Accessing Network Shares” (page 97).

Sharing Folders in Mixed Environments

Using Nautilus, configure your files and folders to share with other members of your network. Make your data readable or writable for users from any Windows or Linux workstation. Learn more about this in Section 5.4, “Sharing Folders” (page 98).

Managing Windows Files

openSUSE can be configured to integrate into an existing Windows network. Your Linux machine then behaves like a Windows client. It takes all account information from the Active Directory domain controller, just as the Windows clients do. Learn more about this in Section 5.5, “Managing Windows Files” (page 100).

Configuring and Accessing a Windows Network Printer

You can configure a Windows network printer through the GNOME Control Center. Learn how to configure this in Section 5.6, “Configuring and Accessing a Windows Network Printer” (page 101).

5.1 Connecting to Your Network

You can connect to a network with wired and wireless connections. To view your network connection status, click *Computer*. In the *Status* area of the main menu, the *Network* icon shows your network connection status. Click the icon to open the YaST Network Settings module. You can use this module to configure your network setup method or to edit your network card configuration.

5.2 General Notes on File Sharing and Network Browsing

Whether and to which extent you can use file sharing and network browsing on your machine and in your network highly depends on the network structure and on the configuration of your machine. Before setting up either of them, contact your system administrator to make sure that your network structure supports this feature and to check whether your company's security policies permit it.

Network browsing, be it SMB browsing for Windows shares or SLP browsing for remote services, relies heavily on the machine's ability to send broadcast messages to all clients in the network. These messages and the clients' replies to them enable your machine to detect any available shares or services. For broadcasts to work effectively, your machine must be part of the same subnet as all other machines it is querying. If network browsing does not work on your machine or the detected shares and services do not meet with your expectations, contact your system administrator to ensure that you are connected to the appropriate subnet.

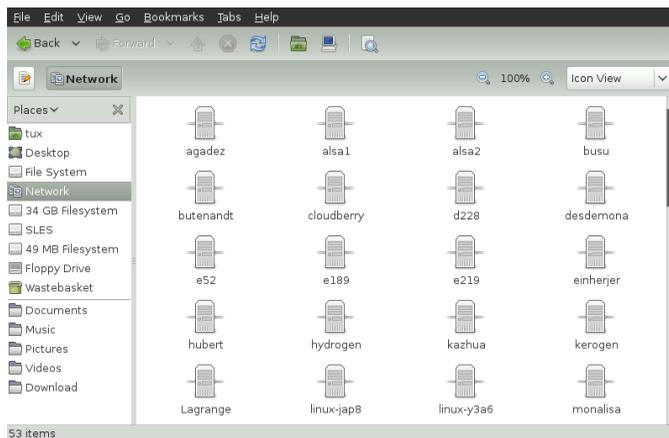
To allow network browsing, your machine needs to keep several network ports open to send and receive network messages that provide details on the network and the availability of shares and services. The standard openSUSE is configured for tight security and has a firewall that protects your machine against the Internet. To adjust the firewall configuration, you would either need to ask your system administrator to put your interface into the internal zone or to tear down the firewall entirely (depending on your company's security policy). If you try to browse a network with a restrictive firewall running on your machine, Nautilus warns you that your security restrictions are not allowing it to query the network.

5.3 Accessing Network Shares

Networking workstations can be set up to share folders. Typically, files and folders are marked to allow users remote access. These are called *network shares*. If your system is configured to access network shares, you can use your file manager to access these shares and browse them just as easily as if they were located on your local machine. Your level of access to the shared folders (whether read-only or write access, as well) is dependent on the permissions granted to you by the owner of the shares.

To access network shares, open Nautilus and click *Network* from the *Places* pane. Nautilus displays the servers and networks that you can access. Double-click on a server or network to access its shares. You might be required to authenticate to the server by providing a username and password. Common network shares are SFTP accessible resources (SSH File Transfer Protocol) or Windows shares.

Figure 5.1 *Network File Browser*



5.3.1 Adding a Network Place

- 1 Click *Computer > Nautilus File Browser > File > Connect to Server*.

Figure 5.2 *Connect to Server dialog box*



The dialog box is titled "Connect to Server". It features a "Service type" dropdown menu currently showing "Public FTP". Below this are three input fields: "Server:", "Port:", and "Folder:". Under the heading "Optional information:", there is a checkbox labeled "Add bookmark" which is currently unchecked, and a "Bookmark name:" input field. At the bottom of the dialog are three buttons: "Help", "Cancel", and "Connect".

- 2 Select a service type, then specify the required information for your type of service.
- 3 To bookmark the connection, check *Add Bookmark* and enter its name.
- 4 Click *Connect*.

5.4 Sharing Folders

Sharing and exchanging documents is a must-have in corporate environments. Nautilus offers you file sharing, which makes your files and folders available to both Linux and Windows users.

5.4.1 Enabling Sharing on the Computer

Before you can share a folder, you must enable sharing on your computer. To enable sharing:

- 1 Start the YaST from the main menu.
- 2 Enter the root password.

- 3 Click *Network Services*.
- 4 Click *Windows Domain Membership*.
- 5 Click *Allow Users to Share Their Directories*, then click *OK*.

5.4.2 Enabling Sharing for a Folder

To configure file sharing for a folder:

- 1 Open Nautilus.
- 2 Right-click a folder, then select *Sharing Options* from the context menu.



- 3 Select *Share this folder*.
- 4 If you want other people to be able to write to the folder, select *Allow other people to write in this folder*. To allow access for people without a user account check *Guest Access*.
- 5 Click *Create Share*.
- 6 If the folder does not already have the permissions that are required for sharing, a dialog appears. Click *Add the permissions automatically*.

The folder icon changes to indicate that the folder is now shared.

IMPORTANT: Samba Domain Browsing

Samba domain browsing only works if your system's firewall is configured accordingly. Either disable the firewall entirely or assign the browsing interface to the internal firewall zone. Ask your system administrator about how to proceed.

5.5 Managing Windows Files

With your openSUSE machine being an Active Directory client, you can browse, view and manipulate data located on Windows servers. The following examples are just the most prominent ones:

Browsing Windows Files with Nautilus

Use Nautilus' network browsing features to browse your Windows data.

Viewing Windows Data with Nautilus

Use Nautilus to display the contents of your Windows user folder just as you would for displaying a Linux directory. Create new files and folders on the Windows server.

Manipulating Windows Data with GNOME Applications

Many GNOME applications allow you to open files on the Windows server, manipulate them and save them back to the Windows server.

Single-Sign-On

GNOME applications, including Nautilus, support Single-Sign-On. This means that to access other Windows resources, such as Web servers, proxy servers or groupware servers like MS Exchange, you do not need to reauthenticate. Authentication against all these is handled silently in the background using the username and password you provided on login.

To access your Windows data using Nautilus, proceed as follows:

- 1 Open Nautilus and click *Network* in the Places pane.
- 2 Double-click *Windows Network*.

- 3 Double-click the icon of the workgroup containing the computer you want to access.
- 4 Click the computer's icon (and authenticate if prompted to do so) and navigate to the shared folder on that computer.

To create folders in your Windows user folder using Nautilus, proceed as you would when creating a Linux folder.

5.6 Configuring and Accessing a Windows Network Printer

Being part of a corporate network and authenticating against a Windows Active Directory server, you can access corporate resources such as printers. GNOME allows you to configure printing from your Linux client to a Windows network printer.

To configure a Windows network printer for use through your Linux workstation, proceed as follows:

- 1 Start the GNOME Control Center from the main menu.
- 2 Select *Hardware > Printing*.
- 3 Select *New > Printer*.
- 4 Select *Network Printer > Windows Printer via SAMBA*.
- 5 Open the SMB Browser with *Browse* and select a workgroup, a server and the printer. Either enter the authentication credentials or choose to be prompted for authentication each time when accessing the printer. Click *Forward*.
- 6 Choose the printer's manufacturer and the printer model from the list and select a driver. The one that is marked with *recommended* normally produces the best results. Proceed with *Forward* and provide a name, a description and a location for the printer. Click *Apply*.
- 7 Adding a printer requires root privileges, so you must enter the root password as the final step to adding it.

To print to the Windows network printer configured above, select it from the list of available printers.

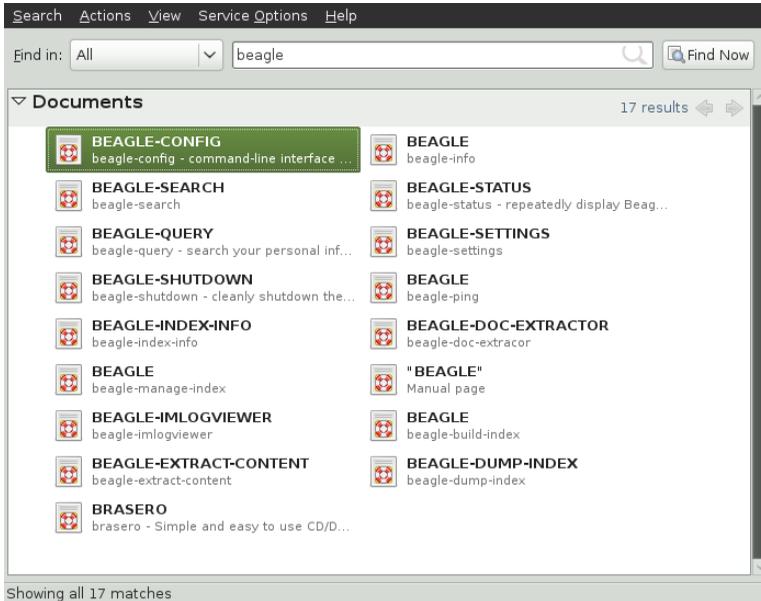
Searching with Beagle

Beagle is a search tool that indexes your personal information space (normally your home directory) in order to carry out search requests. Using Beagle, you can find documents, e-mails and attachments, Web history, IM/IRC conversations, address book contacts, calendar appointments, notes, source code, images, music (and video) files, archives (and their contents) and applications.

6.1 Using Beagle

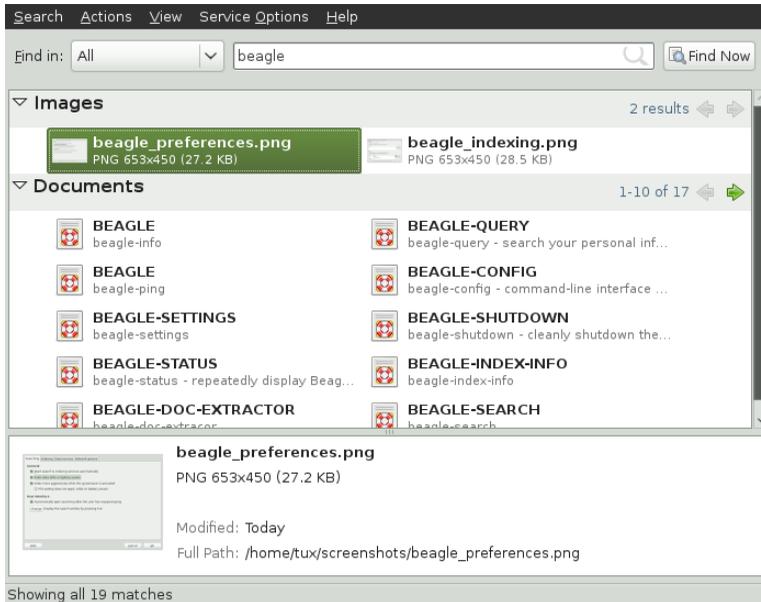
To use Beagle, click *Computer*, enter your search terms in the *Search* field, then press Enter. The results are displayed in the Desktop Search dialog box.

Figure 6.1 Desktop Search Dialog Box



You can use the results lists to open a file, forward it via e-mail, move it to trash, or display it in the file manager. Simply right-click an item in the results list and select desired option. The options available for an item in the results list are determined by its filetype. Selecting a file in the list displays a preview of the file and information such as the title, path, and date the file was last accessed or modified.

Figure 6.2 Desktop Search Dialog Box With a File Selected



Use the *Find In* menu to limit your search to sources of a specific type (such as applications, documents, pictures, emails, web pages or contacts). The *View* menu lets you sort the items in your results list according to name, relevance or the date the file was last modified.

You can also access Desktop Search by clicking *Computer > More Applications > System > Search* or start it from a terminal using the `beagle-search`.

6.2 Search Tips

- You can use both uppercase and lowercase letters in search terms. Searches are not case-sensitive.
- To search for optional terms, use OR (for example, `apples OR oranges`).

IMPORTANT

The `OR` has to be capitalized when used to indicate optional search terms.

- To exclude search terms, use a minus sign (-) in front of the term you want to exclude (for example, `apples -oranges` will find results containing apples but not oranges).
- The root form of a search term is used when searching (for example, a search for `driving` will match `drive`, `drives`, and `driven`).
- To search for an exact phrase or word, put quotation marks (" ") around the phrase or word.
- Common words such as "a", "the" and "is" are ignored.

6.3 Performing a Property Search

By default, the Beagle search tool looks for search terms in the text of documents and in their metadata. To search for a word in a particular property, use `property:query`. For example, `author:john` searches for files that have "john" listed in the Author property.

Table 6.1 *Supported Property Keywords*

Keyword	Applies to	Property
album	Music files	Name of album
artist	Music file	Name of artist
author	Document	Author of the document (same as Creator of the Document)
creator	Document	Creator of the document, mapped to <code>dc:creator</code> (for example, creator of PDF files)
email	Address book	E-mail address

Keyword	Applies to	Property
emblem	File	Emblem used in Nautilus
extension or ext	File	File extension (for example, extension:jpeg or ext:mp3). Use extension: or ext: to search in files with no extension.
genre	Music file	Genre of music
imagecomment	Image file	Comments and descriptions found in images that have an IPTC caption or Exif comment
imagemodel	JPEG image	Model of camera (for example, EOS2D)
imtag	Image file	F-Spot and DigiKam image tags, and IPTC keywords
inarchive	File	Use <code>inarchive:true</code> for files inside an archive
inattachment	File	Use <code>inattachment:true</code> for email attachments.
mailfrom	E-mail	Name of sender
mailfromaddr	E-mail	E-mail address of sender
mailinglist	E-mail	Id of mailing list (for example, dashboard-hackers.gnome.org)
mailto	E-mail	Name of recipient
mailtoaddr	E-mail	E-mail address of recipient
speakingto	Chat	Speaker
title	Document	Title of document, mapped to dc:title (for example, title tag of HTML files)

Property searches follow the rules mentioned in Section 6.2, “Search Tips” (page 105). You can use property searches as an OR query or as an exclusion query, and phrases can be used as *query*. For example, the following line will search for all PDF or HTML documents containing the word “apple” whose author property contains “john” and whose title does not contain the word “oranges”:

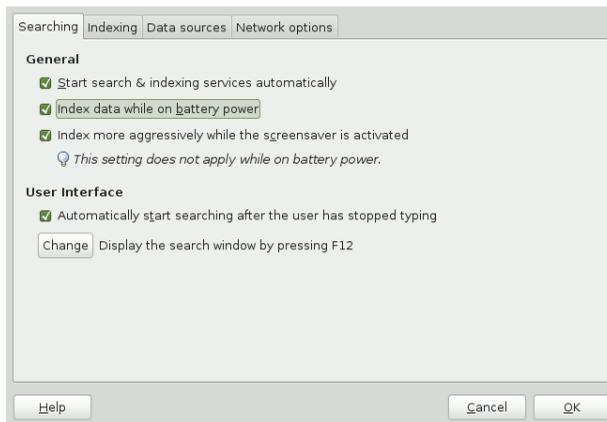
```
apple ext:pdf OR ext:html author:john -title:oranges
```

6.4 Setting Search Preferences

Use the Search Preferences dialog box to set search preferences for Beagle.

- 1 Click *Computer > More Applications > System > Search Settings*.

You can also click *Search > Preferences* in the Desktop Search dialog box.



- 2 Choose from the following options:

Start search & indexing services automatically: Select this option if you want the search daemon to start automatically when you log in to your session (this option is selected by default). If you want to use Beagle's Search functionality, the daemon must be running.

Index data while on battery power: Select this option if you want your data to be indexed when your computer is operating on battery power. Disabling this option is particularly useful if you are using openSUSE on a laptop and you want to stop indexing when your laptop is running on battery power.

Index more aggressively while the screen saver is running: If the screen saver is running, it is assumed that you are not using computer actively and more resources are dedicated to indexing. This option does not apply if computer is running on battery power.

Automatically start searching after the user has stopped typing: Select this option if you want Beagle to start searching as soon as you stop entering text in the *Find* field in the Desktop Search window. This option has no effect on the *Search* field in the main menu.

Display the search window by pressing: Choose the keystrokes that will display the Desktop Search window by specifying any combination of Ctrl, Alt and a function key. F12 is the default keystroke.

3 Click *OK*.

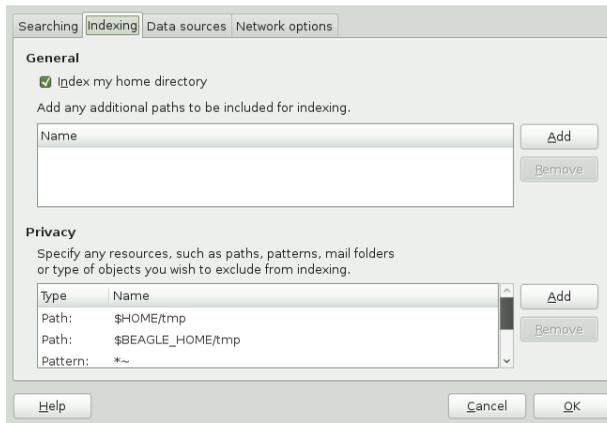
6.5 Indexing Other Directories

By default, Beagle indexes your home directory only. If you do not want your home directory to be indexed, uncheck the *Index my home directory* option on the *Indexing* tab of the Search Preferences dialog box. If you want to index additional folders, follow these steps:

1 Click *Computer > More Applications > System > Search Settings*.

You can also click *Search > Preferences* in the Desktop Search dialog box.

2 Click the *Indexing* tab.



- 3 Click *Add* in the *General* section of the dialog box.
- 4 Select the directory you want to index and click *Open*.
Make sure you have rights to the directories you add.
- 5 If you want to remove a directory from the list of indexed directories, select it in the list, then click *Remove*.
- 6 Click *OK*.

6.6 Preventing Files and Directories from Being Indexed

Use the Search Preferences dialog box to specify resources that you do not want indexed. These resources can include directories, patterns, mail folders, or types of objects.

- 1 Click *Computer > More Applications > System > Search Settings*.
- 2 Click the *Indexing* tab.
- 3 Click *Add* in the *Privacy* section.

- 4 Select a resource to exclude from indexing, then specify the path to the resource or filename pattern.
- 5 Click *OK* twice.

6.7 Selecting Data Sources to Index

Beagle can index various data sources, data from various applications (for example Evolution mails, memos and tasks, Pidgin conversations, Tomboy notes or Nautilus metadata), files, applications, documentation, man pages and others. To select which data sources Beagle should index, follow these steps:

- 1 Click *Computer > More Applications > System > Search Settings*.
- 2 Click the *Data Sources* tab.
- 3 Check the data sources you want to be indexed.
- 4 Click *OK*.

6.8 Disabling Beagle

On low-end computers, Beagle may use too much resources. To disable Beagle, click *Computer > More Applications > System > Search Settings > Searching* and uncheck the *Start search & indexing services automatically* option.

You can also disable Beagle by editing configuration files in the `/etc/beagle/crawl-rules/` directory. To disable Beagle, set option `CRAWL_ENABLED` to `no` in all `crawl-*` files in the directory.

6.9 For More Information

More information about Beagle can be found on the following Web site:

- Beagle Home Page [<http://beagle-project.org/>]

Managing Printers

openSUSE® makes it easy to print your documents, whether your computer is connected directly to a printer or linked remotely on a network. This chapter describes how to set up printers in openSUSE and manage print jobs.

7.1 Installing a Printer

Before you can install a printer, you need to know the root password and have your printer information ready. Depending on how you connect the printer, you might also need the printer URI, TCP/IP address or host, and the driver for the printer. A number of common printer drivers ship with openSUSE. If you cannot find a driver for the printer, check the printer manufacturer's Web site.

7.1.1 Installing a Network Printer

- 1 Click *Computer > Control Center > Hardware > Printing > New > Printer*.
- 2 Select one of the following entries from the list:

AppSocket/HP JetDirect

A printer connected directly to the network instead of a computer.

Internet Printing Protocol (ipp)

A printer attached to a different Linux system on the same network running CUPS, or a printer configured on another operating system to use IPP.

LPD/LPR Host or Printer

A printer or print server attached to a different UNIX system that can be accessed over a TCP/IP network.

Windows Printer via SAMBA

A printer attached to a different system which is sharing a printer over a SMB network (for example, a printer attached to a Microsoft Windows machine). Please refer to Section 5.6, “Configuring and Accessing a Windows Network Printer” (page 101) for configuration details.

- 3 Specify the printer's information and click *Forward*.
- 4 If applicable, select the printer driver for this printer, then click *Apply*. You can also install a printer driver from a disk (*Provide PPD file*), or visit the printer manufacturer's Web site to download the latest driver (*Search for a printer driver to download*).
- 5 Specify desired options for the printer (such as a description or location) in the Properties dialog box and click *Apply*.
- 6 Enter the `root` password and click *Authenticate*.

The installed printer appears in the Printers panel. You can now print to the printer from any application.

7.1.2 Installing a Local Printer

- 1 Connect the printer cable to your computer and connect the printer's power supply.

The printer dialog should open. If it does not, click *Computer > Control Center > Hardware > Printing > New > Printer* to open it.
- 2 Click *Local Printer* and proceed with *Forward*.
- 3 Select the printer driver for this printer and click *Apply*. You can also install a printer driver from a disk (*Provide PPD file*) or visit the printer manufacturer's Web site to download the latest driver (*Search for a printer driver to download*).
- 4 Specify desired options for the printer (such as a description or location) in the Properties dialog box, then click *Close*.

- 5 Enter the `root` password.

The installed printer appears in the Printers dialog box. You can now print to the printer from any application.

7.2 Modifying Printer Settings

- 1 Click *Computer > Control Center > Hardware > Printing*
- 2 Double-click the printer you want to modify.
- 3 Modify the properties and click *Close*.

7.3 Canceling Print Jobs

- 1 Click *Computer > Control Center > Hardware > Printing*.
- 2 Right-click the printer where you sent the job and click *View Print Queue*.
- 3 Right-click the print job and click *Cancel*.

If the print job does not appear in the list, it may be printed already.

7.4 Deleting a Printer

- 1 Click *Computer > Control Center > Hardware > Printing*.
- 2 Right-click the printer you want to delete and choose *Delete*. Confirm with *OK*.
- 3 Type the root password and click *Authenticate*.

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Version 2, June 1991

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