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## General Information

### 1. What is Hanthana Linux?

Hanthana is a remix of Fedora operating system and it is built so as to better cater the needs of Sri Lankan community. This is distributed free of charge and it is totally allowed to redistribute copies as many as required. In other words, Hanthana Linux is a free and open source operating system. Since it is build as a live disk, the operating system can be used and tested without installing it.

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### 2. What is Fedora?

Fedora is a Linux based operating system developed by the community with the support of Red Hat. This can be downloaded free of charge and usually, latest technologies in the world of open source are bundled with Fedora before any other Linux based systems do. A new version of Fedora is released in every six month.

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### 3. **What is GNU/Linux?**

GNU (GNU - GNU is Not Unix) is a project with the aim of developing an operating system completely with open source software similar to Unix. This project consists of several software such as applications, libraries, development tools etc. Linux is a software for resource management and to communicate with hardware. Both these sections, that is GNU and Linux, have formed GNU/Linux. Although we simply say Linux today, these names if properly named should be GNU/Linux.

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### 4. **What is a live CD/DVD?**

A live disk is a disk which is cable of running an operating system without installing it. For example, an operating system in a live CD/DVD can be used without having any influence on your installed operating system.

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### 5. **Is Hanthana a stable operating system? Or is it in experimental level?**

Hanthana is a stable operating system. Since it is based on Fedora, all the advantages, security and qualities in Fedora are bundled with Hanthana.

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### 6. **Can Hanthana be used in a professional or office environment?**

Absolutely yes.

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### 7. **Other working with me use Windows operating system. Will it be a disadvantage that only me use Hanthana? Will others not be able to open and read the documents I create?**

There will not be any problem for you. The documents, graphics or any other documents that you create with in Hanthana Linux can be opened and modified in other operating systems as well. Further, they can be shared in a network and printed. This will not have an negative impact on your office work. It will be advantageous that you save a lot of money that would cost you to buy software.

For more information, please visit Hanthana Linux features page on Hanthana Linux web site.

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## 8. **Difference between Hanthana and Fedora**

Hanthana Linux contains a collection of packages for multimedia that are not shipped with Fedora. A new version of Fedora is released in every six months. If you download a Fedora release after few months later it's release date, the iso will contain only the packages at the original release. But with Hanthana, since the iso is rebuilt from time to time you get the updated packages with the CD/DVD iso.

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## 9. **Will Hanthana expire?**

No. But if you want you can install the latest version.

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## 10. **Does the installation require a serial number?**

No.

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## 11. **Can the packages be updated?**

Yes. Once you install a version of Hanthana, you will get updates for the installed packages for a period of one year. They can be installed as you wish. If your computer is connected to the internet, you can update your software by through Activities > Applications System Tools > Software Update or with the “su -c ‘yum update’” or “su -c ‘pkcon update’” commands in the terminal (and you will be requested with the root password).

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## 12. **What is the selling price of a Hanthana disk?**

Free of charge! You can get a copy through the Hanthana web site or you may make a copy from a friend's copy.

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## 13. **Can I sell Hanthana in my shop? How much do I have to pay for that?**

Yes, you can sell Hanthana live disks. You do not need to pay any for us. If you like you can donate to the project. You are allowed to sell at a reasonable price that the customers can bear.

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## 14. **Why does Hanthana project need donation?**

We conduct this project with no financial benefits, but solely as a social responsibility.

But we need money to pay for our domain name, to maintain our servers, to print posters and to prepare media (CD/DVD) to be distributed free of charge for school students.

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## 15. Can Hanthana disks be copied and distributed among friends?

Since Hanthana is totally free and free of charge you have the complete freedom to copy and distribute among friends. We highly encourage you to do so.

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## 16. What is the latest Hanthana version released?

Hanthana 17

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## 17. How long does it take to release a new version of Hanthana?

Once a new Fedora version is released, after some time, the corresponding Hanthana version will be released and it contains all the software updates up to the date of release.

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## 18. When was Hanthana first released?

26th, September 2009

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## 19. What is the next release?

Hanthana 18

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## 20. What are the software bundled with Hanthana?

A collection of software for your day to day work, office work and for special requirements such as graphic designing and software development are freely shipped with Hanthana. A complete list of software included in Hanthana can be found at <http://hanthana.org/features.php>

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## 21. Is it difficult to use Hanthana once Ubuntu is used?

Hanthana is an operating system based on Fedora. Ubuntu and Fedora are two different operating systems supported by two companies. For example let's compare the Fiesta car by Ford and Micra car by Nissan. Although the speed, facilities and space is almost the same for both cars, the internal and outer appearance are slightly different.

Similarly, although there may be slight differences in Ubuntu and Fedora there will not be an issue in switching between each in the similar way that a person get used to drive a different model of a car when required quickly when he/she has already driven another model of a car. Further, Fedora enables the user experience the latest features. We guarantee that it would be easy for an Ubuntu user to use Hanthana which is build in a more user friendly manner than Fedora.

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## **22.Should Sinhala be installed on Hanthana?**

No. Since Hanthana supports Sinhala and Tamil unicode be default, there is no need to install Sinhala separately.

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## **23.Can mp3, mp4, avi be played on Hanthana?**

Yes, Hanthana by default supports many multimedia file types. They can be played immediately you install Hanthana.

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## **24.Can skype be install for Hanthana?**

Skype is available with Hanthana by default. You don't need to install separately.

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## **25.Can Office2007 documents be opened with LibreOffice which is shipped with Hanthana?**

Yes, at the moment files created with Office 2012 and previous versions can be opened and files can be saved so that they can be reopened in OfficeXP, Office2003 and Office2007.

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## **26.Can Hanthana installed on the same computer with MS Windows? Will that slow the computer?**

Yes, Hanthana can be installed on a computer with MS WIndows previously installed. This is called dual boot. The other operating system can be some other operating system other than MS WIndows. For more information on dual boot installation, please refer the installation section.

This will have no effect on the speed of the computer. In a dual boot system, when the system is booting at the very beginning you are asked the operating system to be booted with. Only one operating system is run at a time. The only governing reason is that you have enough disk space in your hard disk for two operating systems.



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**27. Is a virus guard required?**

Not compulsory. Damages with virus attacks for Linux systems are less when compared with other systems. For the past 18 years, virus reported that affect the Linux kernel are too small, insignificant.

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**28. Do I need to install Mobile Partner to connect to the internet through my dongle? Is there any other solution?**

You do not need to install. Network Manager will identify your dongle once it is connected to the computer.

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**29. How can I solve issues of Hanthana Linux?**

You can join our google group of hanthana community and get answers for your issue(s) from the community. Use this link to join hanthana community google group <http://groups.google.com/group/hanthana-community> . Or else you may get live support by connecting to the IRC channel through [www.hanthana.org/irc.php](http://www.hanthana.org/irc.php) .

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**30. It bothers me to get a large number of emails. Is there a way to receive only the latest news related to Hanthana?**

Yes you can. You may get only the announcements by joining to Hanthana news group.

<https://groups.google.com/group/hanthanalinux>

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**31. Can I contribute to Hanthana project?**

1. Make you school, office friends aware
2. Distribute Hanthana disks among your relatives, friends
3. Organize awareness programs and participate
4. Prepare simple notes on how to use software on Hanthana
5. Translate software to Sinhala language
6. You can also add your software which is a requirement of the community and with proper license to Hanthana project



Absolutely yes. The easiest ways are to aware your friends at your school, education institute, office and to distribute copies among your friends and relatives. Help them to install Hanthana Linux on their computers. When awareness programmes are organized in your school of institute, you can request the Hanthana team to be there for further awareness.

You can educate the community by contributing to prepare simple notes in Sinhala, Tamil and English on how to use free and open source software.

Join our google group for more information.

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## Installation

### 1. What are the minimum hardware requirements to install Hanthana?

Following minimum hardware specifications will ensure your work on Hanthana easier and faster:

For text mode

recommended processor : 200 MHz Pentium Pro or faster

minimum memory (RAM): 256 MB

For graphical mode

recommended processor : 400 MHz Pentium Pro or faster

minimum memory (RAM): 640 MB

recommended memory (RAM): 1152 MB

Hard disk minimum free space of 15GB

A DVD ROM

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### 2. How to get Hanthana

It is easy!

Visit Hanthana web site at <http://www.hanthana.org> , download Hanthana DVD iso and burn it to a DVD. If one of your friends already have a Hanthana DVD you may get a copy from that. This has no legal barrier. If you are unable to get a copy from any of the above mentioned mean, visit <http://hanthana.org/media.php> and contact the Hanthana Linux media contributor nearest to you. He/she will try his/her best to deliver you a copy.

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### 3. Can Hanthana be operated on 64 bit computers?

Yes. For this, use x86\_64 DVD iso from Hanthana web site.

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### 4. How to install Hanthana?

A detailed guide on installation can be found from “Installation-Guide-H17-en.pdf” located at the HanthanaDocs directory in the home directory.

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### 5. How to install Hanthana as dual boot?

Please refer the installation guide. Instruction there is for dual boot installation. Be careful in partitioning step.

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### 6. How can I view my NTFS (Windows NT/2000/XP/2003) partitions?

Your current partition table will be displayed in the partitioning step of the installation wizard. NTFS partitions will be displayed with ntfs under ‘Type’. For more information please refer the partitioning step of the installation guide.

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## Desktop Settings

### 1. How to enable Desktop Effects / desktop decorations?

With Hanthana 17, by default, the previous desktop effects cannot be used. But by logging to the system in Fail Safe Mode you may use the desktop as in Hanthana 14. There you can use the desktop effects the same manner.

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### 2. How to turn off the computer? I cannot locate Shutdown.

Click on the user name on the top right corner of the screen, click on Shut down... from the menu.

Or else, press Alt+F2, type “halt” in the window that appear and press “Enter” key.

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## Office Applications

### 1. How can I move a document created from LibreOffice in Hanthana to a computer with MS Office?

LibreOffice has the facility to save a document in MS Office format. For this go to File > Save As... , under File type, select the desired file type such as Microsoft Word, Microsoft Excel and save the document. Documents saved in this manner can be viewed and modified in a computer with MS Office.

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### 2. Can a document be converted to a PDF?

Yes. For this, go to File > Export as PDF.. and use that window with your settings. More often the default settings are good enough for an ordinary PDF file. Next click the Export button. Enter the file name and location in the window that appear and click on the Save button.

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### 3. Is it only LibreOffice? OpenOffice.org, isn't it there?

LibreOffice is included from Hanthana 14.7 onwards and LibreOffice is developed by the same community that developed OpenOffice.org.

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### 4. How to type in Sinhala?

Hanthana Linux, by default, supports Sinhala unicode. There are two methods for you to type in Sinhala, one is the standard Wijesekara keyboard and the other is the phonetic method (type as the character sound).

If you have already logged in to Hanthana with Sinhala user interface, you can switch to type in Sinhala by pressing Ctrl + Space. If you are logged in to the English user interface, click on Activities and select Other > Input Method Selector. You may get the same window with im-chooser command in the windows appearing with Alt+F2. In that window enable “Use IBus (recommended)”. Click on “Input Method Preferences..” button. In the window that appear, go to “Input Method” tab and select “Show all input methods” from “Select at input method” menu. From the long list under “Sinhala;Sinhalese” select the desired input method(s) (such as Wijesekara, Sayura). Click on Add button after selecting the input method. Close both the windows.

After switching to Sinhala typing mode, to switch between each input methods (such as Wijesekara, Sayura) use Alt+Shift key combination.

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#### 5. Do I need to install fonts to type in Sinhala ?

Hanthana comes with the LKLUG Sinhala Unicode fonts. Therefore you can type in Sinhala without having to install fonts. Further more, there's no restrictions in installing additional fonts.

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#### 6. Can issues such as bold Sinhala characters and displaying of characters such as "ඉ" like "ඔ" be fixed?

This is an issue with selecting the character layout and can be fixed with few simple steps. Open LibreOffice. Go to Tools > Options... from the window that appears select "Languages" under "Language Setting" to the left of the window.

Under the section "Enhanced Language support" enable "Enabled for Asian languages" and "Enabled for complex text layout (CTL)" and under "Default languages for document" set the " Western , Asian and CTL" parameter to "[None]".

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## Software Management

#### 1. How to install applications on Hanthana ?

Applications can be installed easily by going in to Activities > System > Administration > Add/Remove Software and selecting the application you wish to install and clicking the "Apply" button. If the applications that you need depends on other applications, the system will ask your permission to install those as well. You will have to enter your root account password for this.

Alternatively, you can install applications by typing `su -c "yum install "` in a terminal. You will have to key in the root account password for this.

Note that you have to type in the application name as listed in the Fedora software repository and this can differ from the popular name of the application.

For both of the above methods and active internet connection is a must have.

If you have a RPM file you can install it by executing: `su -c "yum localinstall --nogpgcheck /complete/path/to/file.rpm"` or by executing : `su -c "rpm - ivh`

/complete/path/to/file.rpm”

You will have to key in the root account password for this.

Additionally, as in any other Linux system, you can compile and install an application by getting its source code.

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## 2. How to update software in Hanthana?

Updatable software will be displayed in Activities > System Tools > Add/Remove Software. You can update your system by pressing the “Update” button. It is necessary to provide root password.

Or else, in the terminal, “su -c “pkcon update”” command (and the root password when asked) will also update your system.

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## 3. How to remove software in Hanthana?

Unselect the software in Activities > System Tools > Software Update and click on “Apply” button. It is necessary to provide root password.

Or else, in the terminal, “su -c “yum remove ”” command will also accomplish the same task. Root password will be required.

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## 4. Can exe files be installed in Hanthana? How can I do that?

exe and msi files are files that are packaged for Microsoft Windows operating system. There is no way to predict that each and every file of these will properly work with a Linux system. But most of those files can be installed with the aid of a software called wine.

Applications installed with wine are listed under Activities > Other

Right click on the exe or msi file that you wish to install and click on "Open with Wine Windows Program Loader". Installation will happen the same way as it is on Microsoft Windows.

exe files which do need need to be installed to run (ex: flash projector files) can also be run from selecting “Open with Wine Windows Program Loader” from the right click menu.

To access software installed with wine, go to, Activities > Other. To uninstall software installed with wine, select Activities > Other > Wine Software Uninstaller, enter “Add/Remove Programs” select software to be uninstalled and click on “Remove”.

To change the settings of Wine, go to Activities > Other > Wine Configuration

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## Software Development

### 1. How to use python 2.7 or 3.2 ?

For python 2.7 use "python" , for python 3.0 use "python3", for python 3.2, use "python3.2" from the terminal and press “Enter”

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### 2. When a python script is run in geany, the output is not displayed

Go to edit -> preferences -> tool and under, and change "terminal" in to "gnome-terminal".

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## Network Connection

### 1. How to set the IP Address and other related details ?

In order for your PC to be a part of a computer network, your PC requires an IP address and some other related settings. There are two methods for this. One method is to manually enter these details and the other is to obtain these from the network itself (via DHCP).

DHCP (Dynamic Host Configuration Protocol) is used to automatically get the network configuration from the network itself. In order for this to happen a DHCP server needs to be in the network. If your network is wireless then there is a high chance that it already has this in place. If not, you’ll have to enter a matching IP address. You will have to obtain these from your Internet Service Provider or Network Administrator.

For a network that has DHCP, after plugging in the network cable (if its a wired network), Go to the main panel on the top of the screen and click on the NetworkManager icon. Select the Wired tab for a wired network or Wireless tab for a wireless network. You can activate the network from these screens.

Click on the User Name that is on the right hand side of the main panel and from the menu that pops up select System Settings. Now under Hardware, select Network. You can now see the active network settings. For example, if its a wired network connected on DHCP, it will show the Hardware Address,Speed,IP address,Subnet Mask, Default Route without having to enter any network settings.

However, in order to set the network settings, select Wired category from the Wired,Wireless and Network Proxy categories and press the ON button. Now press the Options button and a new popup screen will appear with 4tabs : Wired, 802.1x Security, IPv4 Settings and IPv6 Settings. Select IPv4 Settings tab and from the drop down menu for Method, you can select Automatic (DHCP) or Manual.

If your network has DHCP, select Automatic (DHCP), if not, select Manual.

In order to get IP settings automatically, select Automatic (DHCP) for Method. If you need this connection to be active every time you boot the PC, enable the Connect Automatically option that is below the text box to enter the connection name. Finally click the Save button. Most likely, you'll have to enter the root account password at this point.

If there's no DHCP service in the network, you must enter the network settings manually. Consult your network administrator for this and obtain the necessary details. Now under Method, select Manual. Click the Add button under Addresses. Enter the IP Address,Netmask and Gateway. Eg: IP Address: 192.168.1.10, Netmask: 255.255.255.0 and Gateway : 192.168.1.1 . Afterwards enter IP address of the DNS provider for your network. If you need this connection to be active every time you boot the PC, enable the Connect Automatically option that is below the text box to enter the connection name. Most likely, you'll have to enter the root account password at this point.

After you activate the network connection as shown above, close the Network settings application. You are now ready to access the network.

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## 2. **How can I connect to the internet using my dongle?**

Connect the dongle to the computer. After a little while the dongle will be identified by the Network Manager and click on the Network Manager icon. Select "Auto broadband" from the menu that appears. A window with the Manufacturer and the Model of your dongle will be displayed. Select whether the Mobile BroadBand Connection that you are going to create use only this dongle or any other dongles are allowed to be used for the same connection as well and proceed. In the next window, select "Sri Lanka" as the country. A list of all mobile connection service providers will



be displayed, select your internet service provider and proceed. For the next window, if your package is listed, select it. If your package is not listed select “My plan is not listed” option, provide APN (Access Point Name) and proceed. If you want to automatically connect to the internet when the dongle is connected, select “Connect Automatically”.

Now your computer is ready to connect to the internet using your dongle. If you have not selected “Connect Automatically”, click on “Network Manager” icon and select the appropriate Mobile BroadBand Connection. Now your computer is connected to the internet.

Sometimes although the computer is connected to the internet it is impossible to view web pages. In such a situation please check whether the DNS Server is identified

To safely unplug the dongle from the computer, first click on the Network Manager icon and disconnect the connection by clicking on “Disconnect”. If there is any disks mounted with the dongle remove them, right click on them and select “Safety Remove Disk” (such as Self Installer Disk, Memory Chip etc.). Now your dongle can be safely removed.

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### 3. I installed Hanthana Linux, but I cannot connect to the internet

The reason may be that your computer connects to the internet through a proxy server. For that request for the IP and port of the proxy server from your system/network administrator.

Now click on the user name and click on “System Settings” from the menu that appear. Under “Hardware” select “Network”. Go to “Network Proxy”, select “Manual” and enter IP and port of the proxy server that you obtained from your system/network administrator. Close the window. Now your computer is successfully connected to the internet.

Ex:- If you connected to the internet through a connection from the Schoolnet network, use 10.250.20.20 as the ID and 3128 as the port of the proxy server.

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### 4. How can I know the DNS of my Internet Service Provider (ISP)?

Sometimes DNS (Domain Name Server) is not identified automatically when connected to the internet. If you cannot view web pages although you are connected to the internet, the cause may be that your DNS is not identified. To check whether the DNS server is identified, right click on “Network Manager” and go to “Connection Information”. If there are no two IP addresses as Primary DNS, Secondary DNS, that

means that your DNS server associated with you internet connection is not identified by the “Network Manager”. For a successful internet connection at least the Primary DNS is required.

This issue can be resolved by manually configuring DNS server settings. Click on the user name at the top right of the screen, select “System Settings” from the menu that appear. Under “Hardware” select “Network” click on “Wired” from the window that appear and click on “Options...” to change settings of the network. Under “IPv4 Settings” tab enter DNS server settings. When entering many DNS, separate them with a , (comma).

1. If it is Wireless or wired connection, choose Method -> Automatic (DHCP) addresses only
2. If it is a Mobile BroadBand using a dongle, choose Method -> Automatic (PPP) addresses only
3. If it is a DSL connection, choose Method -> Automatic (PPPoE) addresses only

Now enter the Primary DNS IP of other DNS server and enter the secondary DNS server IP separated by a comma.

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## User Management

### 1. How can I change my password?

Click on the user name on the top panel and select “My Account”. “User Accounts” window that appear will show your user name, language and password. Double click on the password, enter the current and new passwords in the window that appear. The password hint you provide will be displayed in the login screen, therefore please note that you password hint is visible to all the users of the system. Do not include the password in the password hint. After changing the settings click on the “Change” button.

Or else, in the terminal, issue the command “passwd ” as root. Provide the current password and press enter. Provide the new password and press enter. Provide the new password again and press enter.

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### 2. How to create a new user account in Hanthana?

Go to Activities > Other > Users and Groups. Root password will be required. In the

window that appear click on 'Add User' button. Enter user name, full name of the user, password and the password again on the window that appear and click on "OK" button.

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### 3. How to delete a user account in Hanthana?

Go to Activities > Other > Users and Groups. You will be requested with the root password. Select the user name of the account you want to delete and press 'Delete' button. A message will be displayed asking whether you want to delete the home directory, directory containing documents and temporary files of the user. If you want to delete these press 'Yes' button. If you want to keep those files untick the message and press 'Yes' button.

Or else, in the terminal, issue the command 'userdel ' and the user will be deleted. 'userdel -r ' command will delete the user along with the above mentioned directories such as the home directory and temporary files that belong to the user.

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### 4. How can I modify a user account in Hanthana?

Go to Activities > Other > Users and Groups. You will be requested with the root password. Select the user name of the user account that you want to modify and press 'Properties' button. There you can change settings such as user name, full name, password, whether the password should expire, if so when and in what situations etc. After changing the settings press 'OK' button.

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## Security Settings

### 1. What is SELinux?

SELinux (Security-Enhanced Linux) is a security mechanism developed for Linux based operating systems. Permission for processes running in the system are limited and thus will reduce the risk associated with security.

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### 2. What effect will be there for my day to day activities due to SELinux?

Enabling of SELinux will have no effect on normal usage. Sometimes issues will arise. For example in situations such as connecting an additional hard disk, sharing /home with two Linux based operating system using SELinux, installing and using some software.

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### 3. **How to enable/disable SELinux?**

Go to Activities > Other > SELinux Management. To disable SELinux, under 'Status', 'System Default Enforcing Mode', change 'Enforcing' or 'Permissive' into 'Disabled'.

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## **Mobile Phone Settings**

### 1. **Can SMS and contacts in my mobile phone/dongle be viewed in Hanthana?**

Wammu software will help you for this. Connect your mobile phone or dongle to the computer, go to Activities > Applications > Accessories > Wammu and load Wammu. Most of the time if the settings for your mobile phone or dongle are not there in Wammu, it will ask you whether you want to set settings or else go to Wammu -> Phone wizard. Proceed with 'Next' in the window that appear. You will be provided with three options and select the easiest 'Automatically search for a phone' and proceed. Next select how you have connected you mobile phone or dongle to the computer (ex: if it is mobile phone whether it is connected via bluetooth or via a USB cable) and proceed. From the web page in the link you can check whether Wammu supports your mobile phone or dongle. In the next window please be patient until Wammu identifies your mobile phone or dongle. Next you will have a window with "Configuration done" and that means Wammu is ready to connect to your mobile phone or dongle. Click 'Finish' and save the settings.

By default, Wammu will not automatically connect to your mobile phone or dongle when it is loaded and if you want to do so select the option, 'Wammu -> Settings -> Automatically connect to phone at startup'. Or else you have to connect with Phone -> Connect. Next a message will appear with 'One moment please. connecting to phone....' and once it is disappeared that means Wammu is connected with your mobile phone or dongle. Retrieve -> Info will get you the manufacturer, model, information about the SIM, IMEI number etc. of your mobile phone or dongle. Sometimes when you are connected to the internet using a dongle Wammu may fail to connect to the dongle, in such a situation disconnect the internet connection by selecting 'Disconnect' in Network Manager and retry to connect with Wammu.

Wammu connecting along with a mobile phone or dongle will not read contacts, SMS etc. Retrieve -> Contacts (All) will import all the contacts in the phone memory and in the SIM into Wammu. If you want contacts only in the phone memory, select Retrieve -> Contacts (Phone) and if you want contacts only in the SIM, select Retrieve -> Contacts (SIM). You can read, edit and delete contacts and to add new contacts, follow Create -> Contact.

To read SMS you can import them by Retrieve -> Messages. SMSs will be categorized as Read, Sent, Unread, Unsent under 'Messages' in the left pane of the window. You can read and delete SMSs. To send a SMS, go to Create -> Message. You can provide the number of the recipient or choose one from contacts by clicking on 'Add'. Click 'OK' to send the SMS.

Wammu cannot be used to read SMSs in real time and for that you can use Gnome Phone Manager. You can load Gnome Phone Manager by Activities > Applications > System Tools > Phone Manager. Mobile phone icon next to the Network Manager icon is the Gnome Phone Manager icon. If it is displayed in a red background, that means it is not connected with your mobile phone or dongle. In such a situation you have to set settings in Gnome Phone Manager. For that right click on the Gnome Phone Manager icon and select 'Preferences' and under 'Connection' tab, select your mobile phone or dongle. If your mobile phone is connected via bluetooth, select the bluetooth option and select by 'Click to Select device'. Or else the easiest option is to select 'Other port', open Wammu, go to Wammu -> Settings -> Connection -> Device, and copy and paste the value there. To automatically reconnect when the connection drops with the mobile phone or dongle, it is important to select the option 'Automatically retry connections'. How a SMS is displayed when it is received can be set in the 'Interface' tab. 'Pop-up window for new messages' will open every new SMS in a new window and 'Play sound when messages arrive' will play a sound when a SMS is received.

If new SMS is received in Gnome Phone Manager it will be notified with an icon of an envelop with a white background. To read the SMS, click on Gnome Phone Manager icon and you can reply by clicking on the 'Reply' button on the same window. To send a SMS, right click the Gnome Phone Manager icon, click on 'Send Message', enter the message and recipient and click 'Send'.

If you want to start Gnome Phone Manager when you log into the system, open System -> Preferences -> Startup Application, click 'Add', in the window that appear under 'Command' enter "gnome-phone-manager" and click 'Add'.

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## Other

### 1. How can I view the space on my hard disk?

Go to Activities > System Tools > System Monitor and under 'File Systems' tab, you will be provided with the information such as the capacity, free space, file type of your current partitions. In addition you can use 'df -h' command in the terminal.

Gnome and KDE have provided two System Monitor software and click on the first

icon from the two.

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## 2. How can I view internet speed, CPU and Memory?

Go to Activities > System Tools > System Monitor. Your required information will be listed under 'Resources' tab.

Gnome and KDE have provided two System Monitor software and click on the first icon from the two.

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## 3. How can I find a file in the disk?

Click on Activities. A search box will appear in the top right of the screen and enter the name of the file, directory or application that you want to search.

Open File Browser (Nautilus) in the right hand side, under 'Go' in the main menu, click on 'Search for Files..'

You can use the 'locate' command in the terminal to find a file with the file name and 'find' to find files based on many parameters such as file size, file owner. The output of 'locate' command will be more accurate if you have issued 'updatedb' command before 'locate'. If not 'locate' will output files that you have deleted a while ago.

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## 4. How can I find more information on a command in a Linux based system?

'man ' command in the terminal will get you a complete description of the command including its usage and other related commands.

Ex:: 'ls' command will list the files and directories in a specified location.

'man ls' will get you a lot of information on 'ls' command.

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## 5. How can I log in to the Sinhala user interface of Hanthana?

In Hanthana login screen click on the user name and from the language selection menu at the bottom left of the screen (currently displayed as "English (United States)") select "Other...". From the list of languages, select "Sinhala (Sri Lanka)" and click "OK" button. Now enter your password and log into Hanthana workspace.

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## 6. What is 'terminal'?



One of the important facts that we should know in using a Linux based system is how to use the Linux terminal. Linux terminal is a mode of issuing command to the computer in a Linux based operating system. Although Fedora is a fully graphical system, if you wish you can use the terminal to issue commands to the computer. All the commands that you issue in the graphical system can be issued using the terminal as well. You may feel that this is a little bit difficult to use at the very beginning, but once you are get used to the terminal you will hardly use the graphical user interface.

Go to Activities > System Tools > Terminal to open the terminal in Fedora.

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## 7. What is 'root'?

'root' is the user with all the privileges in a Linux based operating system. In simple 'root' login will allow you to do anything you wish in a Linux based operating system. This is also called 'super user'

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**This documentation was composed by the community for the betterment of the community. We invite you to point out any mistakes in the here and to join with us to improve this documentation. You may contact us through [info@hanthana.org](mailto:info@hanthana.org)**