



---

***User Guide***

---

**DCX3510-M**

**with OCAP Software**

©ARRIS Enterprises, Inc. 2014 All rights reserved. No part of this publication may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from ARRIS Enterprises, Inc. ("ARRIS"). ARRIS reserves the right to revise this publication and to make changes in content from time to time without obligation on the part of ARRIS to provide notification of such revision or change.

ARRIS and the ARRIS logo are all trademarks of ARRIS Enterprises, Inc. OCAP™, CableCARD™, M-Card™, and DOCSIS® are trademarks or registered trademarks of Cable Television Laboratories, Inc. HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi. Reverse engineering or disassembly is prohibited. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and the names of their products. ARRIS disclaims proprietary interest in the marks and names of others.

© Copyright 2011 Multimedia over Coax Alliance. All Rights Reserved. MoCA and the MoCA logo is a trademark of Multimedia over Coax Alliance. The Multimedia over Coax Alliance (MoCA), [www.mocalliance.org](http://www.mocalliance.org), is an open, standard body promoting networking of digital video and entertainment through existing coaxial cable in the home.

ARRIS provides this guide without warranty of any kind, implied or expressed, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. ARRIS may make improvements or changes in the product(s) described in this manual at any time.

The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.



# Safety & Regulatory Information

## IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

## IMPORTANT SAFETY CONSIDERATIONS

The DCX3510-M set-top requires careful handling to avoid potential damage to its internal hard disk drive or the loss of recorded data. Be sure to follow these requirements during transportation and installation.

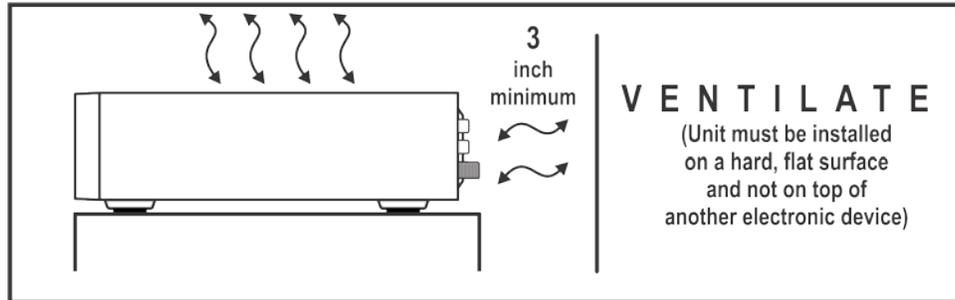
The plug is the main disconnect device. It shall remain readily accessible and operable.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

### During Transportation to the Subscriber Home

Transport the cable terminal in its shipping box or an equally padded container.

Do not expose the terminal to rain or moisture.



### During Installation

- Do not place the terminal in an enclosed area where the cooling vents are blocked or impede the flow of air through the ventilation openings.
- Install the terminal so that its position does not interfere with its proper ventilation. For example, do not place the terminal on a bed, sofa, rug, or similar surface that could block the ventilation openings.
- Install the terminal away from heat sources such as radiators, heat registers and stoves. Installation of the terminal near consumer electronics devices, such as stereo receiver/amplifiers and televisions, is permitted as long as the air surrounding the terminal does not exceed 40° C (104° F).
- Place the terminal on a flat surface not prone to vibration or impact.
- Do not install the terminal in an area where condensation occurs.
- To prevent the temporary loss of guide data and cause a temporarily non-responding terminal, do not plug the AC power cord into a switched power outlet.
- To avoid shock and vibration damage to the internal hard drive, do not move the terminal while it is plugged in.
- To allow the hard drive to spin down and park its heads, wait at least 10 seconds after disconnecting power before moving the terminal.

### FCC COMPLIANCE

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and set-top.
- Connect the equipment into an outlet on a circuit different from that to which the set-top is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution:** Changes or modifications not expressly approved by ARRIS for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: one This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **FCC DECLARATION OF CONFORMITY**

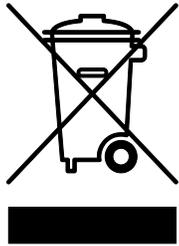
ARRIS Enterprises, Inc. 3871 Lakefield Drive, Suwanee, GA 30024, 1-215-323-1000, declares that the DCX3510-M set-top complies with 47 CFR Parts 2 and 15 of the FCC rules as a Class B digital device.

### **Canada Industry Canada (IC)**

This Class B digital device complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### **CARING FOR THE ENVIRONMENT BY RECYCLING**



When you see this symbol on an ARRIS product, do not dispose of the product with residential or commercial waste

#### **Recycling your ARRIS Equipment.**

Please do not dispose of this product with your residential or commercial waste. Some countries or regions, such as the European Union, have set up systems to collect and recycle electrical and electronic waste items. Contact your local authorities for information about practices established for your region.



# Software License

**IMPORTANT:** PLEASE READ THIS SOFTWARE LICENSE (“LICENSE”) CAREFULLY BEFORE YOU USE ANY SOFTWARE, FIRMWARE AND RELATED DOCUMENTATION (“SOFTWARE”) PROVIDED WITH THE ARRIS DIGITAL CABLE RECEIVER OR HOME THEATER SYSTEM (EACH SHALL BE REFERRED TO IN THIS LICENSE AS A “RECEIVER”). BY USING THE RECEIVER AND/OR USING ANY OF THE SOFTWARE, YOU INDICATE YOUR ACCEPTANCE OF EACH OF THE TERMS OF THIS LICENSE. UPON ACCEPTANCE, THIS LICENSE WILL BE A LEGALLY BINDING AGREEMENT BETWEEN YOU AND ARRIS. THE TERMS OF THIS LICENSE APPLY TO YOU AND TO ANY SUBSEQUENT USER OF THIS SOFTWARE.

IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS LICENSE (I) DO NOT USE THE SOFTWARE AND (II) RETURN THE RECEIVER AND THE SOFTWARE (COLLECTIVELY, “PRODUCT”), INCLUDING ALL COMPONENTS, DOCUMENTATION AND ANY OTHER MATERIALS PROVIDED WITH THE PRODUCT, TO YOUR POINT OF PURCHASE OR SERVICE PROVIDER, AS THE CASE MAY BE, FOR A FULL REFUND.

The Software includes associated media, any printed materials, and any “on line” or electronic documentation. Software provided by third parties may be subject to separate end user license agreements from the manufacturers of such Software. The Software is never sold. ARRIS licenses the Software to the original customer and to any subsequent licensee for personal use only on the terms of this License. ARRIS and its third party licensors retain the ownership of the Software.

**You may:**

USE the Software only in connection with the operation of the Product.

TRANSFER the Software (including all component parts and printed materials) permanently to another person, but only if the person agrees to accept all of the terms of this License. If you transfer the Software, you must at the same time transfer the Product and all copies of the Software (if applicable) to the same person or destroy any copies not transferred.

TERMINATE this License by destroying the original and all copies of the Software (if applicable) in whatever form.

**You may not:**

Loan, distribute, rent, lease, give, sublicense or otherwise transfer the Software, in whole or in part, to any other person, except as permitted under the TRANSFER paragraph above. (2) Copy or translate the User Guide included with the Software, other than for personal use. (3) Copy, alter, translate, decompile, disassemble or reverse engineer the Software, including but not limited to, modifying the Software to make it operate on non compatible hardware. (4) Remove, alter or cause not to be displayed, any copyright notices or startup message contained in the Software programs or documentation. (5) Export the Software or the Product components in violation of any United States export laws.

The Product is not designed or intended for use in on line control of aircraft, air traffic, aircraft navigation or aircraft communications; or in design, construction, operation or maintenance of any nuclear facility. ARRIS AND ITS THIRD PARTY LICENSORS DISCLAIM ANY EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR SUCH USES. YOU REPRESENT AND WARRANT THAT YOU SHALL NOT USE THE PRODUCT FOR SUCH PURPOSES.

Title to this Software, including the ownership of all copyrights, mask work rights, patents, trademarks and all other intellectual property rights subsisting in the foregoing, and all adaptations to and modifications of the foregoing shall at all times remain with ARRIS and its third party licensors. ARRIS retains all rights not expressly licensed under this License. The Software, including any images, graphics, photographs, animation, video, audio, music and text incorporated therein is owned by ARRIS or its

third party licensors and is protected by United States copyright laws and international treaty provisions. Except as otherwise expressly provided in this License, the copying, reproduction, distribution or preparation of derivative works of the Software, any portion of the Product or the documentation is strictly prohibited by such laws and treaty provisions. Nothing in this License constitutes a waiver of the ARRIS rights under United States copyright law.

This License and your rights regarding any matter it addresses are governed by the laws of the Commonwealth of Pennsylvania, without reference to conflict of laws principles. THIS LICENSE SHALL TERMINATE AUTOMATICALLY if you fail to comply with the terms of this License.

ARRIS is not responsible for any third party software that is provided as a bundled application, or otherwise, with the Software or that is downloaded to, or otherwise installed on, the Product.

#### U.S. GOVERNMENT RESTRICTED RIGHTS

The Product and documentation is provided with RESTRICTED RIGHTS. The use, duplication or disclosure by the Government is subject to restrictions as set forth in subdivision (c)one(ii) of The Rights in Technical Data and Computer Software clause at 52.227 7013. The contractor/manufacturer is ARRIS Enterprises, Inc. 3871 Lakefield Drive, Suwanee, GA 30024.

# Contents

<b>Safety &amp; Regulatory Information</b> .....	<b>iii</b>
<b>Software License</b> .....	<b>vi</b>
<b>Tables</b> .....	<b>ix</b>
<b>Figures</b> .....	<b>ix</b>
<b>Introduction</b> .....	<b>1</b>
Features.....	1
Front Panel.....	2
Rear Panel.....	3
<b>Operation</b> .....	<b>4</b>
Turning Power on and Off .....	4
Changing Channels .....	4
Adjusting the Volume .....	4
Interactive Program Guide.....	4
Video Format Indicators (Front Panel Display).....	5
M-Card™.....	5
<b>Digital Video Recorder (DVR)</b> .....	<b>6</b>
Using the External DVR Expansion Feature .....	7
<b>Connecting Your DCX Set-top</b> .....	<b>8</b>
Video Connection Options.....	8
HDMI or IEEE-1394 — HDTV and SDTV.....	9
Component Video (YPbPr) — HDTV and SDTV .....	9
Composite Video — SDTV.....	9
Connecting an HDTV — Single Connection for Video/Audio.....	10
Cable In .....	10
HDMI.....	10
IEEE-1394.....	10
Connecting an HDTV — Separate Video/Audio Connections .....	12
Cable In .....	12
DVI.....	12
Component Video (YPbPr).....	12
Audio .....	12
Connecting an A/V Receiver — Audio .....	14
Connecting an SDTV.....	16
Connecting a Standard-Definition TV (SDTV) and VCR/DVD Recorder.....	17
Connecting an A/V Receiver, SDTV, and VCR/DVD Recorder .....	19
Connecting Your Set-top to an External eSATA DVR .....	21
Data Devices.....	22
Data Features .....	22

On-Screen Graphics.....	23
<b>Recording Your Connections.....</b>	<b>24</b>
<b>Configuring the User Settings .....</b>	<b>25</b>
<b>Troubleshooting .....</b>	<b>29</b>
<b>Appendix A.....</b>	<b>32</b>
Open Source Software Attribution .....	32

## Tables

Table 1: User Settings Menu Fields .....	27
--	----

## Figures

Figure 1: Front Panel .....	2
Figure 2: Rear Panel .....	3
Figure 3: Connecting an HDTV — Single Connection for Video/Audio.....	11
Figure 4: Connecting an HDTV — Separate Video/Audio Connections.....	13
Figure 5: Connecting an A/V Receiver — Audio .....	15
Figure 6: Connecting an SDTV.....	16
Figure 7: Connecting a Standard-Definition TV (SDTV) and VCR/DVD Recorder .....	18
Figure 8: Connecting an A/V Receiver, SDTV, and VCR/DVD Recorder.....	20
Figure 9: Connecting Your Set-top to an External eSATA DVR.....	21
Figure 10: Data Device Connections .....	22
Figure 11: Settings Menu .....	26
Figure 12: Power ON Timer Menu .....	26
Figure 13: Power OFF Timer Menu.....	26

**1**

# Introduction

Congratulations on receiving an ARRIS DCX3510-M High-Definition All-Digital Dual-Tuner Cable Set-top with OCAP™ software, one of the most advanced interactive digital cable set-tops available today. ARRIS has merged the extraordinary features of digital cable—the seemingly endless programming options, interactive program guides, Video on Demand (VOD), and commercial-free, CD quality music—with the flexibility of a dual-tuner digital video recorder (DVR) and the incredible picture quality and sound of High-Definition TV (HDTV).

This set-top includes an “Entertainment Package” that enables a direct digital connection to consumer audio and video devices through IEEE-1394 and HDMI™ interfaces. Dolby® Digital Plus is supported by the HDMI interface and provides 7.1 channels and beyond of enhanced-quality audio. The set-top is fully equipped with a factory-installed hard drive for hours of DVR functionality, which includes the capability of recording two High-Definition programs, or watching one while recording another.

This User Guide introduces you to the basic features, outlines important safeguards, and provides several options for integrating this component into your current entertainment system. Please take a few moments to read through this User Guide. The configuration diagrams, on-screen menu descriptions and troubleshooting section will help you make the most of your home entertainment experience.

To determine which features of digital cable are provided in your service area, please check with your local cable operator.

## Features

- All-Digital Dual-Tuner High-Definition DVR M-Card Host (Dual tuners support watch and record mode)
- Advanced A/V High-Definition decode
- Integrated MoCA™ networking
- HDMI, Component, IEEE-1394, Composite, Digital Audio (Optical), Audio L/R, Ethernet, USB, eSATA
- 1080p 24/30 video decode and 1080p 24/30/60 video output support

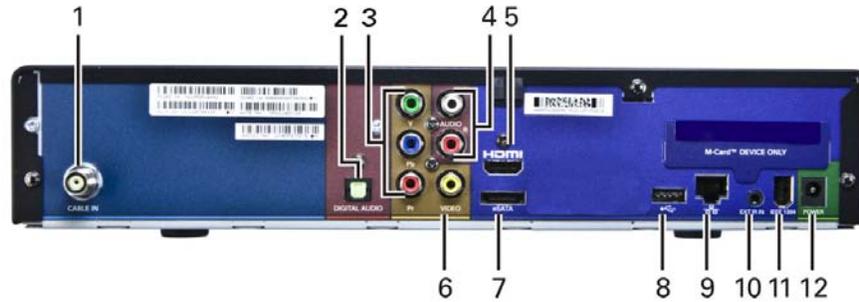
## Front Panel



**Figure 1: Front Panel**

Item	Description
1	Power — Turns the set-top on and off (standby)

## Rear Panel



**Figure 2: Rear Panel**

Item	Description
1	Cable In — Connects to cable signal from your service provider
2	Digital Audio (Optical S/PDIF) — Provides Dolby® Digital or PCM output
3	YPbPr — Component video output (HDTV) Audio Out — Analog L/R (Variable) audio (SDTV)
4	Audio Out — Analog L/R (Fixed) audio (SDTV)
5	HDMI — High-Definition TV (HDTV) connector M-Card — Inserted M-Card
6	Video Out — Composite Video (SDTV)
7	eSATA* — External Serial Advanced Technology Attachment disk interface
8	USB 2.0* — High-Speed peripheral device connection
9	Ethernet* — Network connection
10	External IR Input* — Connects to a remote control set-top accessory cable Data test connector (service personnel only)
11	IEEE-1394 — Audio and video device connection
12	Power connector

\* Availability of certain features is dependent upon application support.

# 2

## Operation

### Turning Power on and Off

Press POWER on the front panel or remote control to turn the DCX set-top on or off (standby). When using the remote control, be sure it is in cable mode by pressing CABLE before pressing POWER.

### Changing Channels

You can change channels in three ways:

- Press CHANNEL + or – on the remote control to step through the channel selection.
- Enter the number of the channel you wish to view using the number keys on the remote control.
- Select the channel in the Interactive Program Guide.

### Adjusting the Volume

Press VOLUME + or – on the remote control to adjust the volume. When you adjust the volume, the volume scale is displayed on the screen. Press MUTE on the remote control to toggle the sound on and off.

For best audio quality when using the analog L/R (variable) volume controlled audio outputs, use the remote control to set the DCX set-top to approximately three quarters of the maximum volume level and then adjust the audio levels on external devices such as your TV or A/V receiver.

When using the analog L/R (fixed) audio outputs or any of the digital audio outputs (HDMI, IEEE-1394, or optical digital audio) adjust the audio levels on your external device such as your TV or A/V receiver. You may also be able to program your remote to control the volume of your TV or A/V receiver directly (refer to the remote control instruction manual).

### Interactive Program Guide

The Interactive Program Guide (IPG) displays information about TV programs and enables you to access features such as Parental Control or Pay-Per-View. Interactive program guides can vary with each cable service provider. Refer to the Interactive Program Guide's instruction manual for detailed instructions.

## Video Format Indicators (Front Panel Display)

The front panel display of the DCX3510-M set-top is equipped with indicators to the right side of the display that are used to indicate the currently-selected video output format on the component video (YPbPr) and HDMI outputs. The DCX3510-M set-top is capable of providing the following video formats on the YPbPr and HDMI video outputs:

- High Definition 1080i (1920 x 1080 pixels)
- High Definition 720p (1280 x 720 pixels)
- Enhanced Definition 480p (720 x 480 pixels)
- Standard Definition 480i (720 x 480 pixels)

The DCX3510-M set-top is also capable of passing through High-Definition 1080p 24/30/60 (1920 x 1080 pixels) source content over the HDMI video output.

*Note: Availability of certain features is dependent on application support.*

## M-Card™

The M-Card is required to view cable television programs, previously recorded programs on the DVR, or interactive on-demand programs. The M-Card should not be removed.

# 3

## Digital Video Recorder (DVR)

The DCX3510-M set-top is equipped with an internal hard drive for DVR (Digital Video Recorder) functionality, which provides the ability to record both Standard-Definition TV (SDTV) and High-Definition TV (HDTV) programs. Storage time varies based on the video format and specific channel.

DVR offers the ability to control your viewing experience by pausing (time shifting) live TV and providing trick playback modes (pause, fast forward, slow forward, fast rewind, slow rewind). You may experience a slight delay when switching between time-shifted and live TV.

The DCX3510-M model also includes integrated MoCA™ networking which supports whole-home DVR capabilities. This feature extends the DVR experience to DCX3200-M or other compatible non-DVR set-tops with integrated MoCA, when enabled by application software. On your non-DVR set-top you can now view your DVR recordings, playback content, and set future recordings from another room in your home.

With the DCX3510-M set-top, you can:

- **Record Programming.** The DCX3510-M is equipped with a 500 GB storage drive which can record 160-300 hours of standard-definition programming, or 40 to 60 hours of high-definition programming. These capacities are based on recording digital MPEG-2 video. A recording of a video program that is broadcast in digital MPEG-4 format requires approximately half the disk space.
- **Maintain a Personal Program Library.** Use the Interactive Program Guide (IPG) to access your library.
- **Control Live TV.** Pause, rewind, replay and fast forward live TV.
- **Simultaneously Watch Two Programs.** Watch two programs and easily switch between them using the swap key on your remote control (Dependent upon program guide support and provided remote control).
- **Simultaneous Watch and Record.** Record one program in the background while viewing another live broadcast at the same time.
- **Simultaneously Record Two Shows.** Record two programs from two different channels at the same time.
- **Simultaneously Record Two Shows and Watch a Recorded Program.** Watch a program recorded on your DVR while recording up to two other programs at the same time. You can also easily switch from viewing the prerecorded program to either of the programs you're recording.
- **Play Recorded Programming On Networked Set-tops In Your Home.** Using integrated MoCA networking, DCX3510-M recorded entertainment can be accessed by other compatible non-DVR set-tops with integrated MoCA, when enabled by application software.

## Using the External DVR Expansion Feature

To use the external DVR expansion feature of the DCX3510-M, first ensure that your service provider has authorized your DCX3510-M for external DVR functionality. If authorized, follow these steps to begin using the external DVR feature:

1. Power on your DCX3510-M and your television and ensure that you have a picture.
2. Connect a compatible eSATA hard disk drive to the DCX3510-M using the eSATA cable supplied with your external drive enclosure. The DCX3510-M will automatically detect that a hard disk drive has been connected to the eSATA interface.
3. The DCX3510-M displays an alert that an external hard disk drive has been connected and that it must be formatted. Use the remote control to confirm the format (formatting a drive erases any and all content that on the drive).
4. The DCX3510-M displays a message when formatting is complete and if the operation succeeded or failed.

*During formatting of the external hard disk drive, the DCX3510-M performs several tests to determine if the hard drive's performance is acceptable for DVR functionality. If the hard drive is unable to pass these performance tests, the DCX3510-M alerts you that the external drive is not compatible for DVR use.*

5. The DCX3510-M confirms that an external drive is connected and available for use.

While using the external DVR expansion feature of your DCX3510-M:

- Recordings made on the external hard disk drive can only be played back on the same DCX3510-M used to record the programs. You cannot connect your external hard disk drive to another DCX3510-M (or another cable box with an eSATA interface) and watch programs that have been recorded on the hard drive.
- You can use multiple external hard disk drives with the same DCX3510-M, however; you can only watch the recordings that are available on the drive connected to the DCX3510-M at that time. To watch recordings that you made on another external drive, simply disconnect the external drive, follow the on-screen prompts, reconnect the other external drive, and again follow the on-screen prompts.
- Whenever the DCX3510-M reboots, a temporary loss of the program listings in the interactive program guide (IPG) is possible.

# 4

## Connecting Your DCX Set-top

Instructions and diagrams are included for the following connections:

- High-Definition Television (HDTV)
- A/V receiver — Audio
- Standard-Definition TV (SDTV)
- Standard-Definition TV (SDTV) and VCR/DVD Recorder
- A/V receiver, Standard-Definition TV (SDTV), and VCR/DVD Recorder

Before you move or change components on your entertainment system, review the following:

- For basic cable connections, use 75 ohm coaxial cables equipped with F-type connectors
- Disconnect power from your equipment before connecting or changing cable connections

For information on connecting to an HDTV, see Video Connection Options.

---

**Caution:** Do not place anything on top of your DCX set-top, especially other home entertainment components. Be sure to provide adequate ventilation to prevent overheating.

---

### Video Connection Options

The DCX set-top offers several different video connection options. Component video, HDMI, and IEEE-1394 allow you to view both High-Definition and Standard-Definition TV programming. Composite video connections allow you to view only Standard-Definition TV programming. HD programming will be down-converted to SD format for SD outputs.

To determine whether your TV features component video, HDMI, IEEE-1394, or composite video, check the manual supplied with your TV.

Use the guidelines below to determine the best video connection for your home entertainment system.

*Note: Only one video connection to the TV is required. HD video can only be viewed with HDMI, IEEE-1394, or component video connections.*

## HDMI or IEEE-1394 — HDTV and SDTV

HDMI and IEEE-1394 offer higher quality HD video than component video.

- If your TV has an HDMI input, this is for both audio and video. Connect a Standard HDMI cable to the TV and to the HDMI connector on your DCX set-top.
- HDMI and IEEE-1394 outputs provide video and audio, so no separate audio connections are required if you plan to use your TV's speakers as the primary audio source.
- On-screen graphics will not be displayed when you are using the IEEE-1394 connection on the rear panel of the DCX set-top. Refer to the *On-Screen Graphics* section for more information.
- If your TV has a DVI input, connect a HDMI-to-DVI adapter or cable to the HDMI out connector on the DCX set-top and the DVI HDTV connector on your TV.

*Note: DVI does not provide audio. A separate audio connection must be made.*

## Component Video (YPbPr) — HDTV and SDTV

The YPbPr connectors on your DCX set-top provide HDTV and SDTV component video.

*Note: Component video does not provide audio. A separate audio connection must be made.*

## Composite Video — SDTV

Use the composite video connection to connect an SDTV.

*Note: Composite video does not provide audio. A separate audio connection must be made.*

## Connecting an HDTV — Single Connection for Video/Audio

### Cable In

Connect an RF coaxial cable to the cable wall outlet and the CABLE IN connector on the DCX set-top.

### HDMI

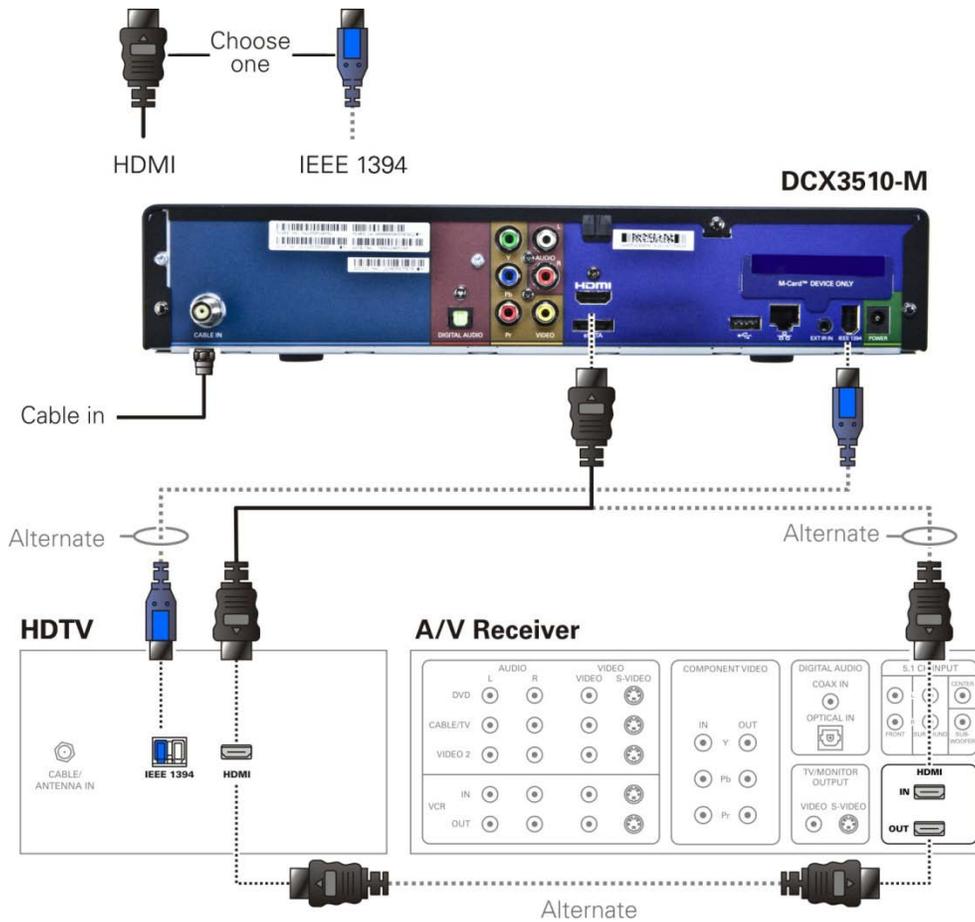
If your TV has an HDMI input, this is for both audio and video if you are using the TV speakers. Connect a Standard HDMI cable to the TV and to the HDMI connector on your DCX set-top.

### IEEE-1394

If your HDTV has an IEEE-1394 connector, you can use the IEEE-1394 for both your video and audio connection. Connect an IEEE-1394 cable to the IEEE-1394 connector on your HDTV and DCX set-top.

*Note: On-screen graphics will not be displayed when you are using the IEEE-1394 connection on the rear panel of the DCX set-top. Refer to [On-Screen Graphics](#) for more information.*

If you have an audio/video receiver and are not using your TV's speakers, go to [Connecting an A/V Receiver — Audio](#).



**Figure 3: Connecting an HDTV — Single Connection for Video/Audio**

*Note: Only one HDTV video connection needs to be made to an HDTV.*

*Note: On-screen graphics will not be displayed when using IEEE-1394 connection. Refer to [On-Screen Graphics](#) for more information.*

*Note: Solid lines indicate optimum connections.*

*Note: Optional HDMI connection to A/V Receiver shown but not required.*

## Connecting an HDTV — Separate Video/Audio Connections

### Cable In

Connect an RF coaxial cable to the cable wall outlet and the CABLE IN connector on the DCX set-top.

### DVI

If your TV has a DVI input, use the DVI connection for your video, connect a HDMI-to-DVI adapter or cable to the HDMI out connector on the DCX set-top and the DVI-HDTV connector on your TV.

*Note: A DVI connection supports only the video connection between the DCX set-top and the HDTV.*

*To connect your audio connections with your TV speakers, go to the [Audio](#) section.*

*To connect your audio connections for an A/V receiver, go to [Connecting an A/V Receiver — Audio](#).*

### Component Video (YPbPr)

Connect the component video cables to the **Y**, **Pb**, and **Pr** connectors on your HDTV and DCX set-top.

*Note: This connection supports only the high definition video connection between the DCX set-top and the HDTV.*

*Note: Be sure to match up each signal to the same connection on the TV, otherwise the colors will not appear correctly on your TV.*

*To connect your audio connections with your TV speakers, go to the [Audio](#) section below.*

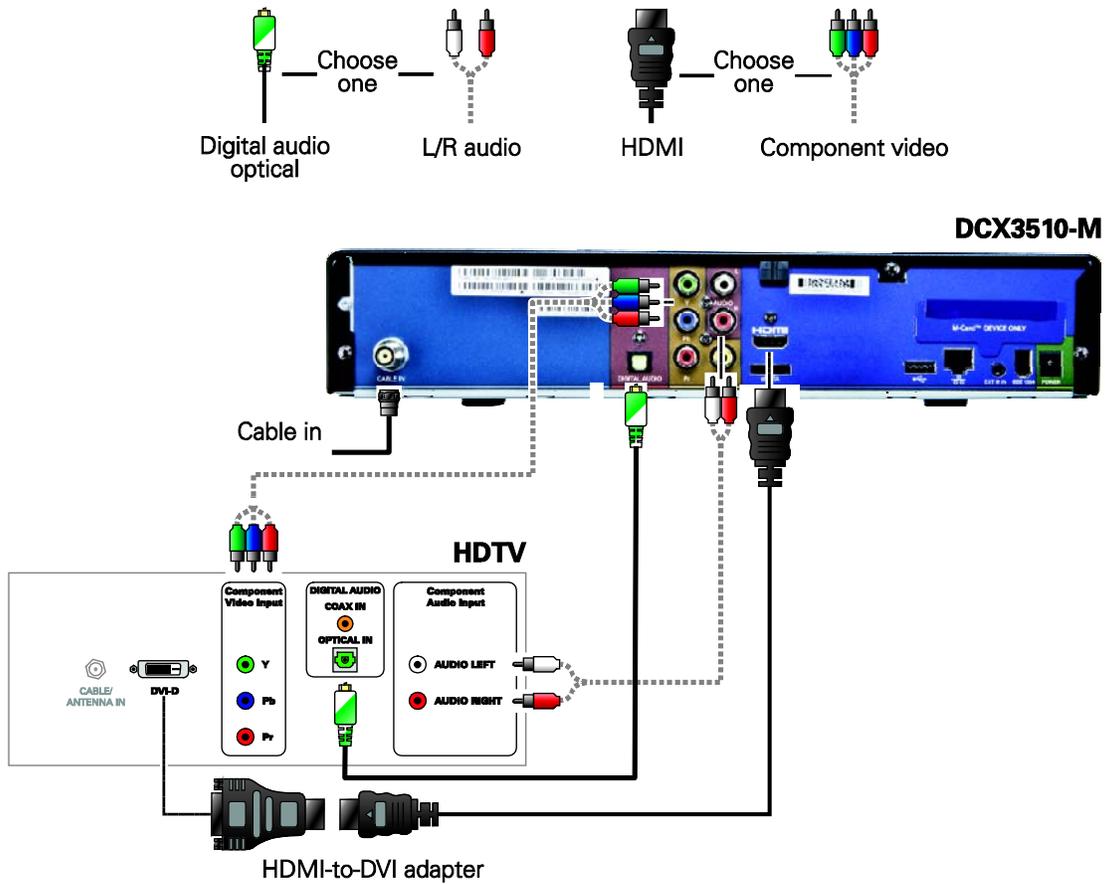
*To connect your audio connections for an A/V receiver, go to [Connecting to an A/V Receiver — Audio](#).*

### Audio

If your TV does not have digital audio inputs, connect the stereo audio cable to the audio L/R connectors on the DCX3510-M set-top and the Audio L/R connectors on the HDTV.

If your TV supports a digital audio inputs, use the digital audio optical S/PDIF outputs instead of the audio L/R outputs. S/PDIF offers better audio quality, including support for Dolby® Digital audio.

*For information on configuring your DCX set-top settings, go to [Configuring the User Settings](#).*



**Figure 4: Connecting an HDTV — Separate Video/Audio Connections**

*Note: Only one video connection and one audio connection need to be made to an HDTV.*

*Note: HDMI-to-DVI adapter is not included with the set-top.*

*Note: Solid lines indicate optimum connections.*

## Connecting an A/V Receiver — Audio

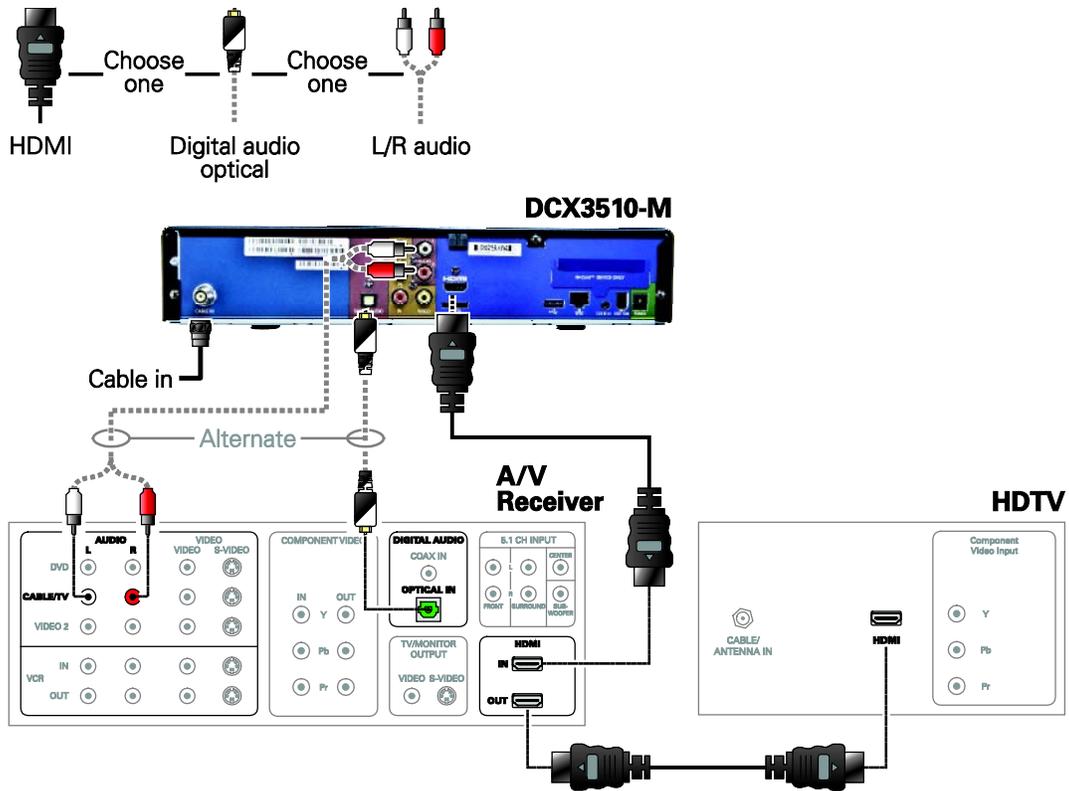
There are several options available for audio connections to your A/V receiver:

- Digital audio (OPTICAL S/PDIF)
- Stereo audio (AUDIO L/R)

If your A/V receiver supports it, the optical (S/PDIF) digital audio outputs may be used in place of the stereo audio outputs (audio L/R). These outputs offer a higher level of audio quality, including support for Dolby Digital audio.

- **Digital audio optical (S/PDIF)**—Connect the optical cable to the digital audio OPTICAL connector on the DCX set-top and the optical connector on the A/V receiver.
- **Stereo audio**—Connect the stereo audio cable to the audio L/R connectors on the DCX set-top and the audio L/R connectors on the A/V receiver.

For information on configuring your DCX set-top settings, see [Configuring the User Settings](#).



**Figure 5: Connecting an A/V Receiver — Audio**

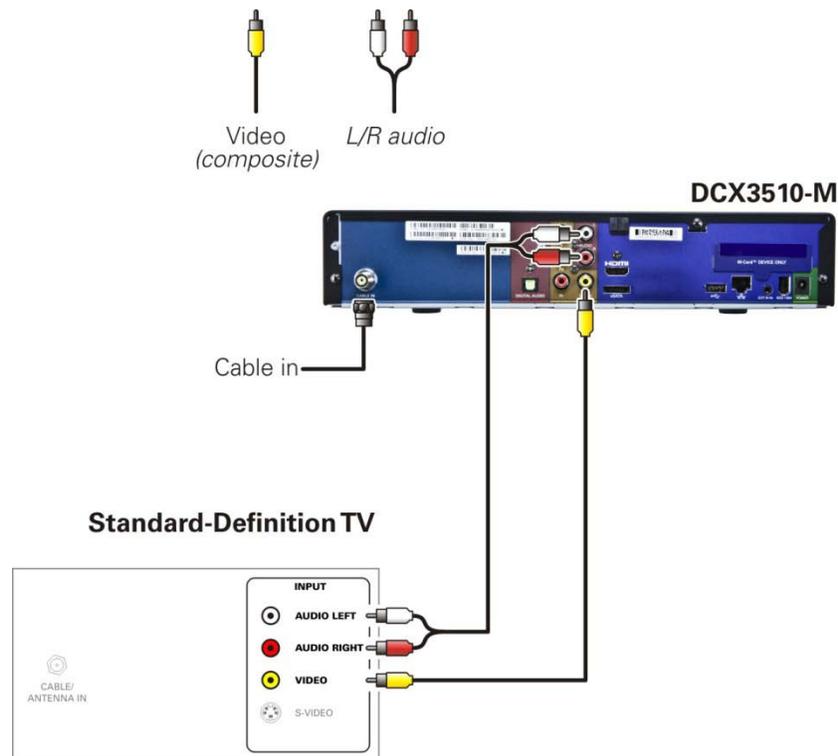
*Note: Only one audio connection needs to be made to an HDTV.*

*Note: Solid lines indicate optimum connections.*

## Connecting an SDTV

1. Connect the stereo audio cable to the AUDIO OUT L/R connectors on the DCX set-top and the audio L/R connectors on the Standard-Definition TV (SDTV).
2. Connect a Video Composite cable to the Video Composite connector on the DCX set-top and the input Video Composite on the TV.

*These video connection methods do not support HD video. If you have an HDTV, see [Connecting an HDTV — Single Connection for Video/Audio](#).*



**Figure 6: Connecting an SDTV**

*Note: Composite video requires separate audio connections.*

*Note: Only one video connection and one audio connection are required.*

*Note: Solid lines indicate optimum connections.*

## Connecting a Standard-Definition TV (SDTV) and VCR/DVD Recorder

1. Connect a stereo audio cable to the AUDIO OUT L and R connectors on the DCX3510-M Series set-top and the INPUT AUDIO L and R connectors on the VCR/DVD Recorder.
2. Connect a video cable to the VIDEO OUT connector on the DCX3510-M Series set-top and the INPUT VIDEO connector on the VCR/DVD Recorder.
3. Connect a stereo audio cable to the OUTPUT AUDIO L and R connectors on the VCR/DVD Recorder and the INPUT AUDIO L and R connectors on the SDTV.
4. Connect a video cable to the OUTPUT VIDEO connector on the VCR/DVD Recorder and the INPUT VIDEO connector on the SDTV.

*Note: You can also connect the TV to the VCR/DVD using the S-Video connectors, if supported by the VCR/DVD Recorder.*

*Note: These video connection methods do not support HD video. If there is an HDTV, see [Connecting an HDTV — Single Connection for Video/Audio](#).*

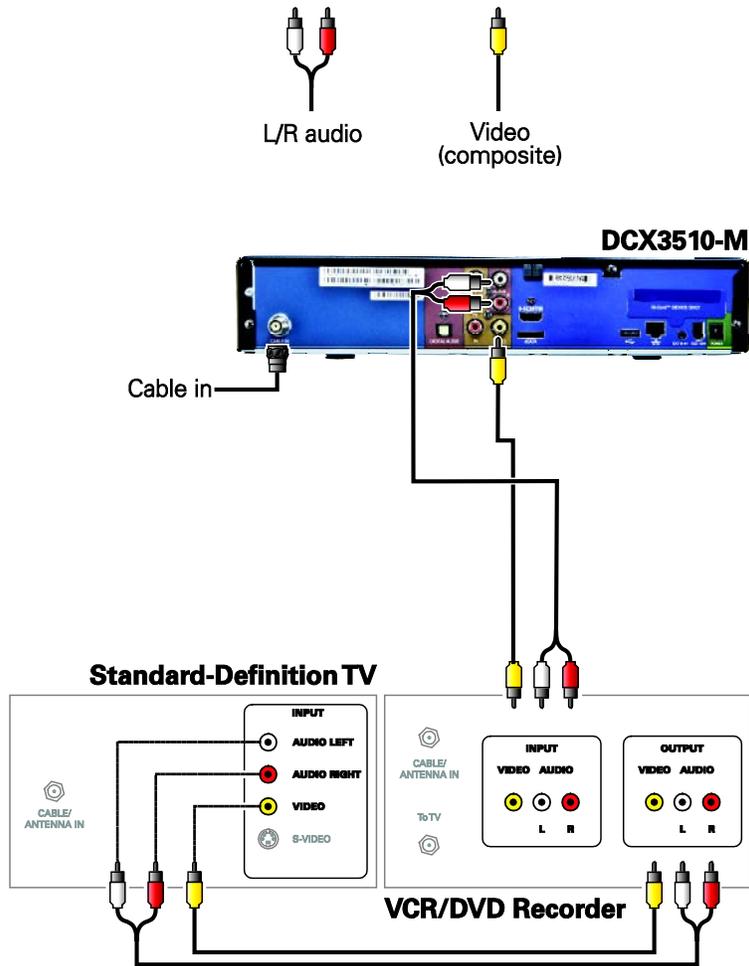


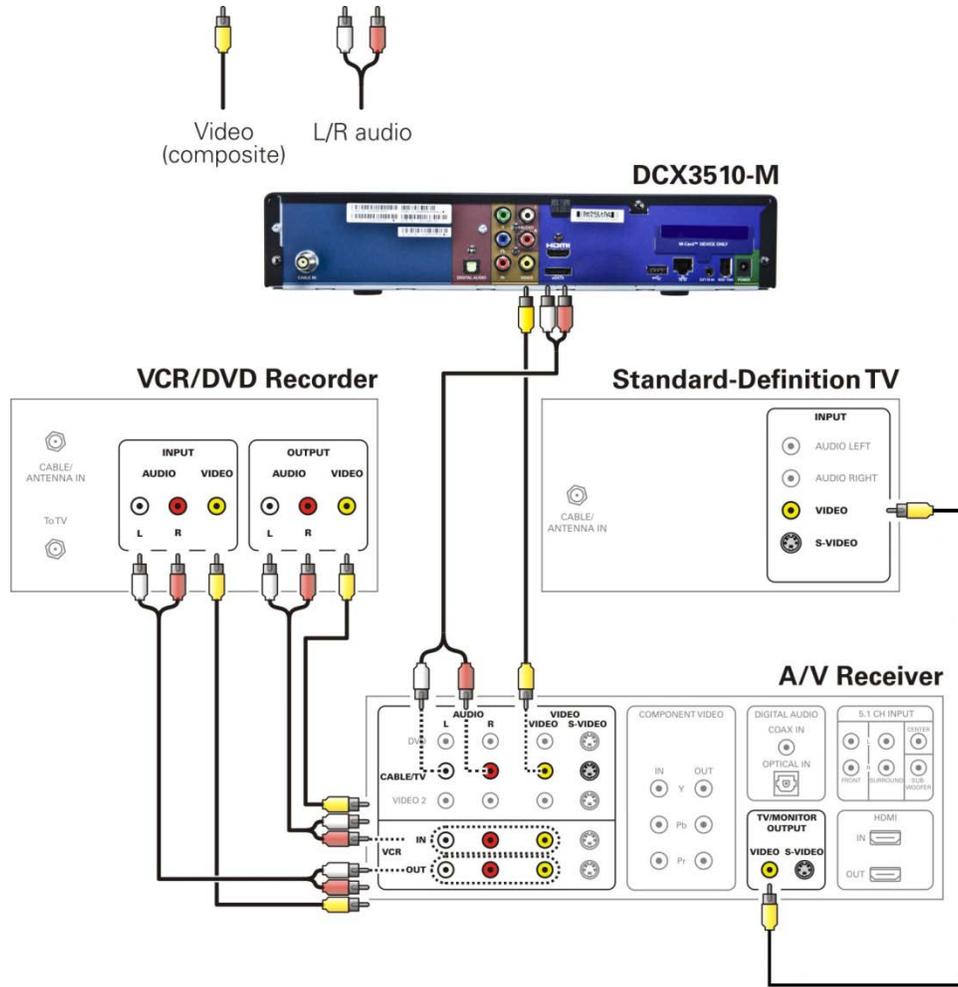
Figure 7: Connecting a Standard-Definition TV (SDTV) and VCR/DVD Recorder

## Connecting an A/V Receiver, SDTV, and VCR/DVD Recorder

1. Connect a stereo audio cable to the AUDIO OUT L/R connectors on the DCX set-top and the input L/R connectors on the A/V receiver.
2. Connect a Video Composite cable to the Video Composite connector on the DCX set-top and the Video Composite connector on the A/V receiver.
3. Connect a stereo audio cable to the VCR AUDIO OUT L/R connectors on the A/V receiver and the INPUT AUDIO L/R connectors on the stereo VCR.
4. Connect a stereo audio cable to the output AUDIO OUT L/R connectors on the stereo VCR and the VCR audio in L/R connectors on the A/V receiver.
5. Connect a composite video cable to the input video connector on the stereo VCR and the video VCR OUT connector on the A/V receiver.
6. Connect a composite video cable to the output video connector on the stereo VCR and the video VCR IN connector on the A/V receiver.
7. Connect a Composite Video cable to the input Composite Video connector on the Standard-Definition TV (SDTV) and the TV/monitor output Composite Video connector on the A/V receiver.

*Note: The digital audio optical (optical S/PDIF) audio outputs may be used in place of the stereo audio outputs (audio L/R). Optial S/PDIF offers a higher level of audio quality, including support for Dolby Digital audio.*

*These video connection methods do not support HD video. If you have an HDTV, see [Connecting an HDTV — Single Connection for Video/Audio](#).*



**Figure 8: Connecting an A/V Receiver, SDTV, and VCR/DVD Recorder**

*Note: Solid lines indicate optimum connections.*

*Note: Consult your A/V receiver manual for additional wiring options or constraints when including a VCR/DVD Recorder in your configuration.*

## Connecting Your Set-top to an External eSATA DVR

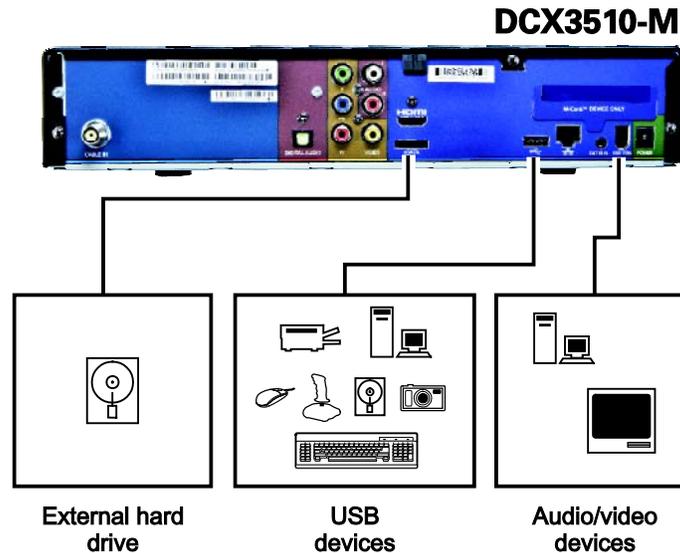
1. Contact your cable service provider to verify the set-top software necessary to support External DVR Storage is available in your area.
2. Connect the AC power cord to the external drive and plug the external drive's AC power adapter into an electrical outlet.
3. Allow approximately 15 to 30 seconds for the external drive to reach operating speed.
4. Connect one end of the eSATA cable to the set-top.
5. Connect the other end of the eSATA cable to the external drive.
6. Follow the on-screen instructions.

*Note: Only connect external hard drives that have been approved by ARRIS for external DVR service. Connecting an external drive that has not been approved could result in poor DVR performance.*



**Figure 9: Connecting Your Set-top to an External eSATA DVR**

## Data Devices



**Figure 10: Data Device Connections**

Do not attempt to connect data devices without contacting your service provider. Advanced data features require the proper application and network infrastructure to operate.

## Data Features

In addition to high-quality audio and video, the DCX set-top has the capability to deliver high-speed data services such as Internet access, e-mail, IP telephony, e-commerce, and home banking.

*Note: Your DCX set-top may be equipped with the interface connections illustrated, but their functionality depends on the services offered by your service provider.*

## On-Screen Graphics

Your DCX set-top can generate graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The DCX set-top overlays these graphics whenever you open a menu, enable closed captions, or scroll through a program grid.

- On-screen graphics are not available on all video output combinations.
- On-screen graphics will not be displayed when you are using the IEEE-1394 connection on the rear panel of the DCX set-top.

# 5

## Recording Your Connections

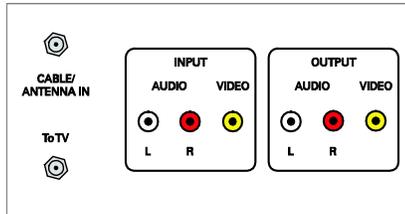
Use this diagram to record connections between your home entertainment components. You can use this diagram to reconnect your system if you move the equipment or add new equipment.

Disconnect the power from the DCX set-top before connecting or changing cable connections. Do not place another component or object on top of the DCX set-top.

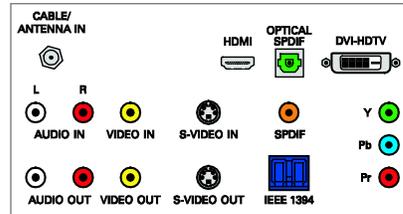
### DCX3510-M



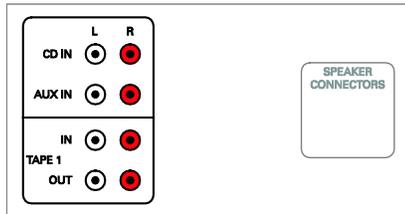
#### VCR / DVD Recorder



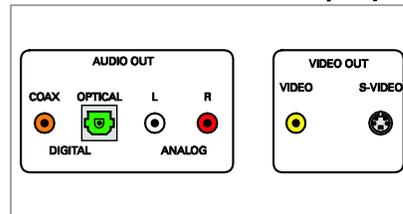
#### HDTV / Standard-Definition TV



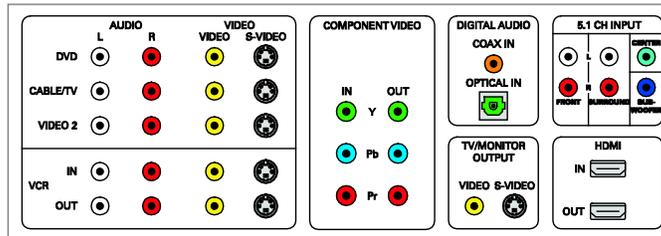
#### Audio receiver



#### DVD player



#### AV receiver



# 6

## Configuring the User Settings

The following describes how to configure the audio (for HDMI connections) and SD and HD video settings for the DCX3510-M.

*Note: Additional user settings are configured through the Interactive Program Guide and not directly through the Settings Menu.*

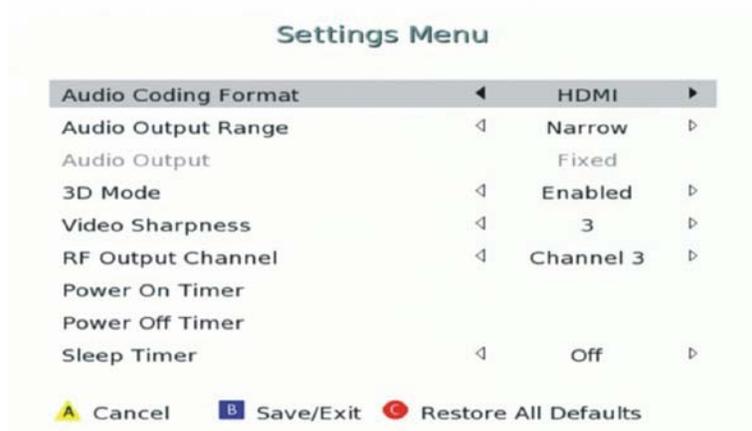
Before you adjust the output settings:

- Connect the DCX3510-M to other home entertainment devices.
- Plug the DCX3510-M into an AC power outlet.
- Turn the TV on.

When using an HDMI connection between the DCX3510-M and the television, be sure to have the cable connected and the TV powered on before adjusting the video settings.

To optimize the output settings:

1. Ensure the DCX3510-M is installed properly.
2. With the set-top in stand-by mode, press the MENU key on the remote control.
3. If the TV is on, the on-screen User Settings menu lists the DCX3510-M settings that can be adjusted.
4. Use the remote control to navigate the on-screen menus:
  - Press the ▲ and ▼ keys to highlight the setting you wish to change.
  - Press the ► key to select an option.
  - To exit the setting and move to another setting, press the ▲ or ▼ key.
  - To exit the menu and save your settings, press the B key on the remote control.



**Figure 11: Settings Menu**

### Power ON Timer



**Figure 12: Power ON Timer Menu**

### Power OFF Timer



**Figure 13: Power OFF Timer Menu**

**Table 1: User Settings Menu Fields**

Setting	Description
<b>Audio Coding Format</b>	<p>Selects the audio coding format on the digital output (HDMI and SPDIF) when tuned to a channel carrying compressed audio. The following formats are supported:</p> <ul style="list-style-type: none"> <li>• PCM/Stereo – Send decoded audio in PCM format over the digital outputs.</li> <li>• Dolby Digital – Send Dolby Digital audio over the digital outputs.</li> <li>• HDMI – Send appropriate audio format, as per auto negotiation between STB and TV, when connected over HDMI. If the negotiation indicates: <ul style="list-style-type: none"> <li>○ PCM – send decoded audio in PCM format over the digital outputs</li> <li>○ Dolby Digital – send Dolby Digital audio over the digital outputs</li> </ul> </li> <li>• Dolby Digital Plus – send Dolby Digital Plus over HDMI and Dolby Digital over SPDIF.</li> </ul>
<b>Audio Output Range</b>	<p>Sets the preferred audio dynamic range when the input audio is decoded by the STB. Three options are allowed</p> <ul style="list-style-type: none"> <li>• Narrow (default) – Enables minimum dynamic range and is most appropriate when the TV is connected to the STB over the RF output.</li> <li>• Normal – Enables moderate dynamic range which is most appropriate when a receiver is connected to the STB over baseband or digital outputs.</li> <li>• Wide – Enables the complete dynamic range to be reproduced on all outputs, which is most suitable for advanced users who have high quality speakers and audio equipment.</li> </ul>
<b>Audio Output</b>	<p>Sets the audio output to a fixed or variable setting. The fixed setting produces a constant output level from the set-top (recommended when connected to an external receiver). This setting does not apply to the Audio Out (Fixed) connector.</p>
<b>3D Mode</b>	<p>Selections are Enabled or Disabled.</p> <p>Enabled – The “D” key on the remote toggles 3D graphics display modes through the settings, 2D, 3DTB, and 3DSS.</p> <p>Disabled – The “D” key on the remote is disabled. The 3D graphics display mode is set by the signal of the selected program.</p>
<b>Video Sharpness</b>	<p>Adjusts the picture sharpness when viewing a standard-definition (SD) program. The Video Sharpness setting affects all of the video outputs. By default, the sharpness level of 3 is selected. The DCX3510-M supports five distinct levels of video picture sharpness. A value of 1 corresponds to a "softer" picture while a value of 5 corresponds to a "sharper" picture. The best sharpness setting depends upon the video connection being used, the display quality of the TV, and personal preference.</p>
<b>RF Output Channel</b>	<p>The default selection is channel 3.</p>
<b>Power ON Timer</b>	<p>The designated time for the set-top to power on.</p>
<b>Status</b>	<p>This selection disables or enables the Power ON Timer.</p>
<b>Day Option</b>	<p>When enabled, this selection indicates when the Power ON Timer is active. Choices are Weekends, Weekdays, Every Sunday, Every Monday, Every Tuesday, Every Wednesday, Every Thursday, Every Friday, or Every Saturday</p>

Setting	Description
<b>Set Time</b>	<ul style="list-style-type: none"> <li>• 12-hour clock</li> <li>• AM/PM</li> </ul>
<b>Power OFF Timer</b>	The designated time for the set-top to power off.
Status	This selection disables or enables the Power OFF Timer.
Day Option	When enabled, this selection indicates when the Power OFF Timer is active. Choices are Weekends, Weekdays, Every Sunday, Every Monday, Every Tuesday, Every Wednesday, Every Thursday, Every Friday, or Every Saturday
Set Time	<ul style="list-style-type: none"> <li>• 12 hour clock</li> <li>• AM/PM</li> </ul>
<b>Sleep Timer</b>	Off/On

# 7

## Troubleshooting

Before calling your service provider, review this troubleshooting guide. This information can help you quickly solve a problem. If your problem still exists, contact your service provider.

Problem	Possible Solution
<p><b>The DCX set-top will not power on</b></p>	<ul style="list-style-type: none"> <li>• The DCX set-top may have received a software update and may not power on while the new software is being installed. Try again in a few minutes.</li> <li>• Verify that the AC power cord is connected to the DCX set-top and an AC outlet. Unplug the DCX set-top from the AC outlet, plug it back in, and then press the POWER button.</li> <li>• If the DCX set-top is connected to a switched outlet on another unit, verify that the unit is powered on. Unplug the power cord from the DCX set-top's AC outlet, plug it back in, and then press the POWER button. It is recommended to use an unswitched outlet, if possible.</li> <li>• Press the POWER button on the DCX set-top front panel instead of the remote control. The batteries in the remote control may be depleted.</li> </ul>
<p><b>The remote control does not work</b></p>	<ul style="list-style-type: none"> <li>• Verify that the remote control is in "Cable" mode.</li> <li>• Verify that the remote is programmed for ARRIS remote codes.</li> <li>• Verify that there are no obstructions between the remote control and the DCX set-top. Aim the remote control directly at the DCX set-top front panel, not the TV or VCR.</li> <li>• The angle between the remote control and the DCX set-top may be too large. Stand in front of the DCX set-top and not too far to either side.</li> <li>• Press and release operation keys one at a time, firmly and deliberately.</li> <li>• Check the batteries in the remote control. Install new batteries if needed.</li> </ul>
<p><b>There is no audio when viewing cable channels</b></p>	<ul style="list-style-type: none"> <li>• Verify that the mute button set-top or the remote control has not been pressed. Press MUTE on the remote control to restore sound.</li> <li>• If the DCX set-top audio output is connected to the TV, verify that the MUTE button on the TV has not been pressed.</li> <li>• If the DCX set-top audio output is connected to a home theater receiver, verify that the receiver is set to the appropriate input source and the MUTE button on the receiver has not been pressed.</li> <li>• Verify that you have the correct cables for the audio connections.</li> <li>• Verify that the audio cables are firmly connected between the DCX set-top and the audio playback device (TV, receiver, DVD player, etc.).</li> </ul>

Problem	Possible Solution
<p><b>There is no audio from the center and/or surround speakers of a home theater receiver connected to the DCX set-top</b></p>	<ul style="list-style-type: none"> <li>• Not all programs feature full Dolby Digital [5.1] or Dolby Digital Plus [7.1] surround sound. In some cases, the programs may only contain left and right stereo audio.</li> <li>• Verify that the HDMI or optical S/PDIF cable is firmly connected to the DCX set-top and the home theater receiver.</li> <li>• Verify that the home theater receiver is set to a surround sound audio mode (Dolby Pro Logic®, Dolby Pro Logic II®, Dolby Pro Logic IIx®).</li> <li>• Verify that the receiver is properly configured to work with all connected speakers.</li> </ul>
<p><b>There is no video on the TV screen</b></p>	<ul style="list-style-type: none"> <li>• Verify that the TV is powered on and set to the appropriate input source for the DCX set-top.</li> <li>• Verify that the DCX set-top is powered on and tuned to an authorized cable channel.</li> <li>• Verify that all video cables between the DCX set-top and the TV are firmly connected.</li> <li>• Verify that the coaxial cable feed is firmly connected to the DCX set-top and the wall jack.</li> <li>• If the DCX set-top video output is connected to a home theater unit, verify that the home theater unit is powered on and set to the appropriate input source.</li> <li>• If the DCX set-top video output is connected to a TV through an HDMI connection, power off the TV and then power off the DCX set-top. Wait one second and then power on the devices.</li> </ul> <p>Not all HDTVs can display every output format (1080i, 720p, 480p, or 480i) available on the DCX set-top. Refer to your TV manufacturer’s documentation to determine the compatible format for your TV and set the corresponding output format for the set-top on the IPG.</p>
<p><b>No graphics or program guides appear on the TV screen</b></p>	<p>If you use the IEEE-1394 connection, on-screen graphics, including closed captions and program guides, are not displayed by the DCX set-top. On-screen graphics and captions may still be overlaid by your TV, if enabled. Use HDMI or component video instead of IEEE-1394.</p>
<p><b>No closed captions display</b></p>	<ul style="list-style-type: none"> <li>• Verify that closed captions are enabled using the IPG menu.</li> <li>• If you are using the RF out connector, verify that closed captions are enabled on the TV.</li> </ul> <p><i>Note: Closed captioning may not be available on the current program.</i></p>
<p><b>There are black bars to the right and left of the picture</b></p>	<p>Wide screen TVs display 4:3 programs in this format unless set to Stretch.</p> <p>Many HD programs are broadcast in pillar box format with black bars to the left and right of the picture. These programs are broadcast in 16:9 HD formats even though the video is not 16:9.</p>
<p><b>There are black bars above and below the picture</b></p>	<p>All 4:3 HDTVs display HD programs in letterbox format (black bars above and below the picture) because of the shape of the display screen.</p> <p>Some SD programs are broadcast in the letterbox format with black bars above and below the picture. Some widescreen TVs offer a zoom feature that may be able to remove the black bars. (See your TV manual for information about zooming 4:3 video.)</p>

Problem	Possible Solution
<p><b>There are black bars on all four sides of the picture</b></p>	<p>This may occur on a 16:9 TV if the active video for an SD broadcast is in letterbox format. To confirm, wait for a commercial or look for a graphic, such as a network logo. If the commercial fills the screen from top to bottom, or the graphic appears below the active video, the program is being letterboxed by the broadcaster. You can minimize this by activating the zoom feature on the TV.</p> <p>A broadcaster may include black bars on either side of a wide screen broadcast. This is called a "hybrid" aspect ratio and results in a black border surrounding the video on a 4:3 TV. Because this is part of the broadcast, the DCX set-top cannot correct the video. You may be able to minimize the border using the zoom feature on the TV.</p>
<p><b>Colors do not appear correctly</b></p>	<p>Be sure to match up each signal to the same YPbPr connection on the TV, otherwise the colors will not appear correctly on your TV.</p>



# Appendix A

## Open Source Software Attribution

The following lists the attribution for the open source software (OSS) used.

Open Source Software (OSS) Attribution for Project Ayer 2.6  
 Created by attrib.pl version 1.6 UTC 15:47:30, Fri Dec 11, 2009  
 Copyright (C) ARRIS, 2009-2010.  
 Open Source Software Information

-----  
 For instructions on how to obtain a copy of any source code being made publicly available by ARRIS related to software used in this ARRIS product you may send your request in writing to:

ARRIS Enterprises, Inc.  
 OSS Management  
 2450 Walsh Avenue  
 Santa Clara, CA 95051  
 USA

The ARRIS website [opensource.aris.com](http://opensource.aris.com) also contains information regarding the ARRIS use of open source. ARRIS has created the [opensource.aris.com](http://opensource.aris.com) to serve as a portal for interaction with the software community-at-large. This document contains additional information regarding licenses, acknowledgments and required copyright notices for open source packages used in this ARRIS product.

### Summary Listing of OSS Component Licenses, by Family ###

apache\_1.1

- apache-commons-digester-1.5
- apache-commons-el-1.0
- apache-commons-modeler-1.1
- apache-jakarta-regexp-1.3
- apache-xerces-2.0.0
- apache-xerces-2.0.2
- apache-xerces-2.6.1
- mx4j-2.0.1

apache\_2.0

- apache-ant-1.6.5
- apache-beanutils-1.7.0
- apache-commons-collections-3.1
- apache-commons-logging-1.0.4
- apache-jakarta-tomcat-5.0.2

- apache-tapestry-4.0.2
- gwt-linux-1.4.10
- log4j\_1.2.15
- log4jME-1\_3alpha\_7
- spring-2.0.4

bouncyCastleLicense

- crypto-1.2.7

BSD\_license

- netbsd-mktime-cfile
- ttcp-cfile

eclipsePublicLicense\_1.0

- eclipseJdtCompiler\_3.1.39
- softwareWidgetToolkit\_3.235

gnu\_gpl\_2.0

- a60-0.17
- bcmPublicCFE\_1.4.0
- BigDigits.2.1.0
- busybox\_1.9.1
- busybox\_20050528
- dhcpcd-0.8.29
- e2fsprogs\_1.25
- e2fsprogs\_1.29
- ebtables-v2.0.8-2
- freetype-2.1.2
- gcc-3.4.6
- gdb\_6.5
- ipchains-1.3.9
- ipmasqadm-0.4.2
- libm-1.0.2a
- ncurses-5.3
- net-snmp-5.3.1
- procps-2.0.17
- sash-1.1
- squid-2.5
- termcap-1.3
- uClibc-0.9.27
- uCLinux-dist-20070130
- util-linux-2.12a
- wget-1.7
- xfsprogs-2.5.6

gnu\_lgpl\_2.1

```

glibc-2.3.6
iperfLicense
  iperf-2.0.0
  iperf-2.0.2
jgoodiesLooksLicense
  jgoodies-looks-r2.2.0
MPEG_license
  mpeg2-video-player
openssl_license
  openssl-0.9.8b
perlArtisticLicense_5.0
  depmod.pl_217
  perl-2.0.1
  perl-5.6.1
  perl-5.6.2
python_2.0.1
  python-2.0.1
vixieCronLicense
  vixie-cron
westhawk_6.0
  snmp6_0
### License Text, Copyright Notices, Etc. ###
*** apache_1.1 ***
License contents for all components under the apache_1.1 family:
/*
=====
* The Apache Software License, Version 1.1
*
Copyright (c) 2000 The Apache Software Foundation. All rights
reserved. Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the
distribution.
The end-user documentation included with the redistribution, if any,
must include the following acknowledgment: "This product includes
software developed by the Apache Software Foundation
(http://www.apache.org/)." Alternately, this acknowledgment may
appear in the software itself, if and wherever such third-party
acknowledgments normally appear.

The names "Apache" and "Apache Software Foundation" must not
be used to endorse or promote products derived from this software
without prior written permission. For written permission, please
contact apache@apache.org.

Products derived from this software may not be called "Apache",
nor may "Apache" appear in their name, without prior written
permission of the Apache Software Foundation.

```

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*

=====

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <<http://www.apache.org/>>.

Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Specific attribution items for component apache-commons-digester-1.5: ARRIS includes component apache-commons-digester, version 1.5, <http://archive.apache.org/dist/commons/digester>

Specific attribution items for component apache-commons-el-1.0: ARRIS includes component apache-commons-el, version 1.0, <http://commons.apache.org/el/>

Specific attribution items for component apache-commons-modeler-1.1: ARRIS includes component apache-commons-modeler, version 1.1, <http://commons.apache.org/modeler/downloads.html>

Specific attribution items for component apache-jakarta-regexp-1.3: ARRIS includes component apache-jakarta-regexp, version 1.3, <http://jakarta.apache.org/site/downloads/index.html>

Specific attribution items for component apache-xerces-2.0.0: ARRIS includes component apache-xerces, version 2.0.0, <http://xerces.apache.org/>

Specific attribution items for component apache-xerces-2.0.2: ARRIS includes component apache-xerces, version 2.0.2, <http://xerces.apache.org/>

Specific attribution items for component apache-xerces-2.6.1: ARRIS includes component apache-xerces, version 2.6.1, <http://xerces.apache.org/>

Specific attribution items for component mx4j-2.0.1: ARRIS includes component mx4j, version 3.0.2, <http://mx4j.sourceforge.net>

\*\*\* apache\_2.0 \*\*\*

License contents for all components under the apache\_2.0 family:

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

**Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

**Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

**Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

**Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

**Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

**Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS

FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

**Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

**Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Specific attribution items for component apache-ant-1.6.5:

```
=====
== NOTICE file corresponding to the section 4 d of ==
== the Apache License, Version 2.0, ==
== in this case for the Apache Ant distribution. ==
=====
```

This product includes software developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes also software developed by : the W3C consortium (<http://www.w3c.org>) , the SAX project (<http://www.saxproject.org>)

Please read the different LICENSE files present in the root directory of this distribution.

Specific attribution items for component apache-beanutils-1.7.0: This product includes software developed by The Apache Software Foundation (<http://www.apache.org/>).

Specific attribution items for component apache-commons-collections-3.1: This product includes software developed at The Apache Software Foundation (<http://www.apache.org/>).

Specific attribution items for component apache-commons-logging-1.0.4: This product includes software developed by The Apache Software Foundation (<http://www.apache.org/>).

Specific attribution items for component apache-jakarta-tomcat-5.0.2: Apache Jakarta Tomcat Version 5.0.2

Copyright 1999-2008 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (<http://www.apache.org/>).

Specific attribution items for component apache-tapestry-4.0.2: This product includes software developed by The Apache Software Foundation (<http://www.apache.org/>).

Specific attribution items for component gwt-linux-1.4.10: Google Web Toolkit 1.4.10

Copyright (c) Google, Inc. 2007. All rights reserved. Visit Google Code (<http://code.google.com/webtoolkit/>).

This product includes software developed by:

The Apache Software Foundation (<http://www.apache.org/>).

Tomcat (<http://tomcat.apache.org/>) with modifications

Xerces (<http://xerces.apache.org/>)

Tapestry (<http://tapestry.apache.org/>)

The Eclipse Foundation (<http://www.eclipse.org/>).

Java Development Tools (<http://www.eclipse.org/jdt/>)

Standard Widget Toolkit (<http://www.eclipse.org/swt/>) with modifications

The JFreeChart project (<http://www.jfree.org/jfreechart/>)

The Mozilla Foundation (<http://www.mozilla.org/>).

Mozilla 1.7.12 (<http://www.mozilla.org/releases/mozilla1.7.12/>)

Rhino (<http://www.mozilla.org/rhino/>) with modifications

The SAX project (<http://www.saxproject.org/>)

The WebKit Open Source Project (<http://www.webkit.org/>)

The W3C consortium (<http://www.w3.org/>)

For source availability and license information see COPYING.

#### GOOGLE WEB TOOLKIT LICENSE INFORMATION

December 12, 2006

The Google Web Toolkit software and sample code developed by Google is licensed under the Apache License, v. 2.0. Other software included in this distribution is provided under other licenses, as listed in the Included Software and Licenses section at the bottom of this page. Source code for software included in this distribution is available from the Google Web Toolkit project or as otherwise indicated at the bottom of this page.

Please note that the executable version of the Google Web Toolkit distributed by Google will communicate with Google's servers to check for available updates. If updates are available, you will receive the option to install them.

=====

#### LICENSE INFORMATION REGARDING BUNDLED THIRD-PARTY SOFTWARE

The following third party software is distributed with Google Web Toolkit and is provided under other licenses and/or has source available from other locations. Where "gwt-dev.jar" is listed, substitute in the name of the jar corresponding to your platform, e.g. "gwt-dev-linux.jar".

\* Apache Tomcat License: Apache License v. 2.0 (above) Source code availability: <http://tomcat.apache.org> modifications are at [org/apache/tomcat](http://org/apache/tomcat) within gwt-dev.jar

\* Browser Detect v2.1.6 License: Creative Commons Attribution 1.0 <http://creativecommons.org/licenses/by/1.0/> Source code availability: <http://google-web-toolkit.googlecode.com/svn/trunk/tools/benchmark-viewer/src/com/google/gwt/junit/viewer/client/BrowserInfo.java> (transliterated into Java source)

\* Eclipse Java Development Tools (JDT) License: Eclipse Public License v. 1.0 <http://www.eclipse.org/legal/epl-v10.html> Source code availability: <http://archive.eclipse.org/eclipse/downloads/drops/R-3.1.1-200509290840/download.php?dropFile=eclipse-JDT-SDK-3.1.1.zip>

\* Eclipse Standard Widget Toolkit (SWT) License: Eclipse Public License v. 1.0 <http://www.eclipse.org/legal/epl-v10.html> Source code availability: Linux: <http://download.eclipse.org/eclipse/downloads/drops/R-3.2.1-200609210945/download.php?dropFile=swt-3.2.1-gtk-linux-x86.zip> Windows: <http://download.eclipse.org/eclipse/downloads/drops/R-3.2.1-200609210945/download.php?dropFile=swt-3.2.1-win32-win32-x86.zip> Mac: <http://download.eclipse.org/eclipse/downloads/drops/R-3.2.1-200609210945/download.php?dropFile=swt-3.2.1-carbon-macosx.zip> modifications are at [org/eclipse/swt](http://org/eclipse/swt) within gwt-dev.jar

\* JFreeChart License: GNU Lesser General Public License v. 2.1 <http://www.gnu.org/licenses/lgpl.html> Source code availability: <http://jfree.org/jfreechart/download.html>

\* Mozilla Rhino License: Mozilla Public License v. 1.1 <http://www.mozilla.org/MPL/MPL-1.1.txt> Source code availability: [com/google/gwt/dev/js/rhino/](http://com/google/gwt/dev/js/rhino/) within gwt-dev.jar

\* Mozilla 1.7.12 (Linux only) License: Mozilla Public License v. 1.1 <http://www.mozilla.org/MPL/MPL-1.1.txt> Source code availability: [http://developer.mozilla.org/en/docs/Download\\_Mozilla\\_Source\\_Code](http://developer.mozilla.org/en/docs/Download_Mozilla_Source_Code)

\* WebKit 418.9 (Mac only) License: GNU Lesser General Public License v. 2.1 <http://www.gnu.org/licenses/lgpl.html> Source code availability: <http://webkit.org/building/checkout.html>

Specific attribution items for component log4j\_1.2.15: Apache log4j  
Copyright 2007 The Apache Software Foundation  
This product includes software developed at The Apache Software Foundation (<http://www.apache.org/>).

Specific attribution items for component log4jME-1\_3alpha\_7:  
Apache log4j  
Copyright 2007 The Apache Software Foundation  
This product includes software developed at The Apache Software Foundation (<http://www.apache.org/>).

\*\*\* bouncyCastleLicense \*\*\*

License contents for all components under the bouncyCastleLicense family:  
Bouncy Castle License Note:  
Copyright (c) 2000 The Legion Of The Bouncy Castle  
(<http://www.bouncycastle.org>) Permission is hereby granted, free of

charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

\*\*\* BSD\_license \*\*\*

License contents for all components under the BSD\_license family:

Copyright (c) <YEAR> <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\* eclipsePublicLicense\_1.0 \*\*\*

License contents for all components under the eclipsePublicLicense\_1.0 family:

Eclipse Public License . v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

#### DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor: i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program. "Contributor" means any person or entity that distributes the Program. "Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement. "Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

#### **GRANT OF RIGHTS**

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form. b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder. c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program. d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

#### **REQUIREMENTS**

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

- a) it complies with the terms and conditions of this Agreement; and
- b) its license agreement:
- i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or

conditions of merchantability and fitness for a particular purpose; ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits; iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form: a) it must be made available under this Agreement; and b) a copy of this Agreement must be included with each copy of the Program. Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

#### **COMMERCIAL DISTRIBUTION**

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense. For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

#### **NO WARRANTY**

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement

, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

#### DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable. If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation. FreeType Project License

2000-Feb-08

Copyright 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg

Introduction

=====  
 The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project. This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least. This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:
 

- o We don't promise that this software works. However, we will be interested in any kind of bug reports. ('as is' distribution)
- o You can use this software for whatever you want, in parts or full form, without having to pay us. ('royalty-free' usage)
- o You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the FreeType code. ('credits')

 We specifically permit and encourage the inclusion of this software, with or without modifications, in commercial products. We disclaim all warranties covering The FreeType Project and assume no liability related to The FreeType Project.

Legal Terms

#### 0. Definitions

\*\*\* gnu\_gpl\_2.0 \*\*\*

License contents for all components under the gnu\_gpl\_2.0 family:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the

rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: one copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#### GNU GENERAL PUBLIC LICENSE

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

**This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.**

If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among

countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.> Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published

by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'. This is free software, and you are welcome to
redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items-- whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written
by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

```
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

Specific attribution items for component busybox\_20050528:

```
*** gnu_lgpl_2.1 ***
```

License contents for all components under the gnu\_lgpl\_2.1 family:

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it.

You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: one we copyright the

library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### GNU LESSER GENERAL PUBLIC LICENSE

##### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any

warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that one uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library

subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN

WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.> Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

\*\*\* iperfLicense \*\*\*

License contents for all components under the iperfLicense family:

Copyright (c) 1999,2000,2001,2002,2003,2004 The Board of Trustees of the University of Illinois. All Rights Reserved.

Mark Gates

Ajay Tirumala

Jim Ferguson

Jon Dugan

Feng Qin

Kevin Gibbs

National Laboratory for Applied Network Research National Center for Supercomputing Applications University of Illinois at Urbana-Champaign

Permission is hereby granted, free of charge, to any person obtaining a copy of this software (Iperf) and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimers in the documentation and/or other materials provided with the distribution.

Neither the names of the University of Illinois, NCSA, nor the names of its contributors may be used to endorse or promote products derived from this Software without specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS.", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

\*\*\* jgoodiesLooksLicense \*\*\*

License contents for all components under the jgoodiesLooksLicense family:

Copyright (c) 2000-2005 JGoodies Karsten Lentzsch. All Rights Reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- o Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- o Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- o Neither the name of JGoodies Karsten Lentzsch nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\* MPEG\_license \*\*\*

License contents for all components under the MPEG\_license family:

\*\*\* openssl\_license \*\*\*

License contents for all components under the openssl\_license family:

LICENSE ISSUES

=====

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

OpenSSL License

/\*

=====

\* Copyright (c) 1998-2008 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgment:  
"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)"
4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.
5. Products derived from this software may not be called "OpenSSL" "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.
6. Redistributions of any form whatsoever must retain the following acknowledgment:

"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====  
 This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

Original SSL License

-----  
 /\* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)

All rights reserved.

This package is an SSL implementation written by Eric Young (eay@cryptsoft.com).

The implementation was written so as to conform with Netscapes SSL.

This library is free for commercial and non-commercial use as long as the following conditions are aheared to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed. If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used. This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement: "This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)"

The word 'cryptographic' can be left out if the rouines from the library being used are not cryptographic related :-).

4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement:

"This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND \* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The licence and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution licence [including the GNU Public Licence.]

\*/

perlArtisticLicense\_5.0

License contents for all components under the perlArtisticLicense\_5.0 family:

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A

Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

Specific attribution items for component depmod.pl\_217: Copyright (c) 2001 David Schleef <ds@schleef.org> Copyright (c) 2001 Erik Andersen <andersen@codepoet.org> Copyright (c) 2001 Stuart Hughes <seh@zee2.com> Copyright (c) 2002 Steven J. Hill <shill@broadcom.com> Copyright (c) 2006 Freescale Semiconductor, Inc <stuarth@freescale.com>

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

David Schleef <ds@schleef.org>

\*\*\* python\_2.0.1 \*\*\*

License contents for all components under the python\_2.0.1 family:

HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI) in the Netherlands as a successor of a language called ABC. Guido is Python's principal author, although it includes many contributions from others. The last version released from CWI was Python 1.2. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI) in Reston, Virginia where he released several versions of the software. Python 1.6 was the last of the versions released by CNRI. In 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team (www.pythonlabs.com). Python 2.0 is the first release from PythonLabs. Thanks to the many outside volunteers who have worked under Guido's direction to make this release possible.

BEOPEN.COM TERMS AND CONDITIONS FOR PYTHON 2.0

=====

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

-----

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at <http://www.pythonlabs.com/logos.html> may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

#### CNRI OPEN SOURCE LICENSE AGREEMENT

#### Python 1.6 CNRI OPEN SOURCE LICENSE AGREEMENT

IMPORTANT: PLEASE READ THE FOLLOWING AGREEMENT CAREFULLY. BY CLICKING ON "ACCEPT" WHERE INDICATED BELOW, OR BY COPYING, INSTALLING OR OTHERWISE USING PYTHON 1.6 SOFTWARE, YOU ARE DEEMED TO HAVE AGREED TO THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT.

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6 software in source or binary form and its associated documentation, as released at the [www.python.org](http://www.python.org) Internet site on September 5, 2000 ("Python 1.6").

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, worldwide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2000 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6 alone or in any derivative version prepared by

Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1012. This Agreement may

also be obtained from a proxy server on the Internet using the following URL: <http://hdl.handle.net/1895.22/1012>".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.

4. CNRI is making Python 1.6 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by and interpreted in all respects by the law of the State of Virginia, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI PERMISSIONS STATEMENT AND DISCLAIMER

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

\*\*\* vixieCronLicense \*\*\*

License contents for all components under the vixieCronLicense family:

Copyright 1988,1990,1993 by Paul Vixie

All rights reserved

Distribute freely, except: don't remove my name from the source or documentation (don't take credit for my work), mark your changes (don't get me blamed for your possible bugs), don't alter or remove this notice. May be sold if buildable source is provided to buyer. No warrantee of any kind, express or implied, is included with this software; use at your own risk, responsibility for damages (if any) to anyone resulting from the use of this software rests entirely with the user. Send bug reports, bug fixes, enhancements, requests, flames, etc., and I'll try to keep a version up to date. I can be reached as follows:

Paul Vixie <[paul@vix.com](mailto:paul@vix.com)> uunet!decwrl!vixie!paul Vixie Cron V3.0  
December 27, 1993

\*\*\* westhawk\_6.0 \*\*\*

License contents for all components under the westhawk\_6.0 family:

Bouncy Castle License Note:

Copyright (c) 2000 The Legion Of The Bouncy Castle  
(<http://www.bouncycastle.org>)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



ARRIS Enterprises, Inc.  
3871 Lakefield Drive, Suwanee, GA 30024 [www.arris.com](http://www.arris.com)

365-095-25385 x.1 01/14

