



## Руководство пользователя

## Мы всегда готовы помочь!



## Содержание

1	<b>Важная информация</b> Техника безопасности	2
	Осторожное обращение с устройство	
	Забота об окружающей среде	3
	Соответствие нормативам	4
	Справка и поддержка	4
	Программное обеспечение с	
	открытым исходным кодом	4
2	Ваш продукт	
_	Основное устройство	5 5 6
	Пульт ДУ	6
	Беспроводные АС объемного звучани	
	Беспроводные истобымного звучали Беспроводной сабвуфер	9
	Разъемы	9
	Tabembi	
3	Подключение и настройка	10
	Подключение основного устройства	10
	Запрос на настройку сети	11
	Зарядка АС	11
	Выполнение сопряжения с	
	основным устройством вручную	11
	Размещение АС	12
	Подключение аудио с телевизора	13
	Подключение для воспроизведения	
	звука с других устройств	14
	Подключение цифровых устройств	
	через HDMI	15
	·	
4	Chromecast built-in и Spotify	4.
	Connect	16
	Подключение устройства к сети	16
	Потоковая передача музыки на	47
	данное устройство	17
	Перемещение по основному меню	47
	приложения	17

5	Пространственная калибровка Шаг 1: калибровка зоны	18
	прослушивания.	19
	Шаг 2: калибровка положения АС	1,
	объемного звучания.	19
	OUBCMITOI O 3BY HAITIMA.	1,
6	Использование продукта	20
	Настройка уровня громкости	20
	Выбор режима звука	20
	МР3-плеер	22
	Запоминающие устройства USB	22
	Воспроизведение музыки через	
	соединение Bluetooth	23
	Подключение Bluetooth через NFC	26
	Автоматический переход в режим	
	ожидания	26
	Установка яркости дисплея	27
	Восстановление заводских установок	27
7	Обновление программного	
	обеспечения	28
	Проверка версии ПО	28
	Обновление программного	
	обеспечения через Интернет	28
	Обновление ПО с помощью	
	устройства USB	29
8	Характеристики изделия	30
9	Поиск и устранение	
	неисправностей	31

# 1 Важная информация

Перед включением устройства ознакомьтесь со всеми инструкциями. Гарантия не распространяется на повреждения, вызванные несоблюдением инструкции.

## Техника безопасности

#### Риск короткого замыкания или возгорания!

- Перед выполнением или изменением каких-либо подключений убедитесь, что все устройства отключены от розетки электросети.
- Не подвергайте устройство и дополнительные принадлежности воздействию дождя или воды. Никогда не размещайте рядом с устройством сосуды с жидкостью, например вазы. В случае попадания жидкости на поверхность или внутрь устройства немедленно отключите его от электросети. Обратитесь в центр поддержки потребителей для проверки устройства перед использованием.
- Не помещайте устройство и дополнительные принадлежности вблизи источников открытого огня или других источников тепла, в том числе не допускайте воздействия прямых солнечных лучей.
- Никогда не вставляйте посторонние предметы в вентиляционные разъемы и другие отверстия устройства.
- Если шнур питания или штепсель используются для отключения устройства, доступ к ним должен оставаться свободным.
- Запрещается подвергать элементы питания (аккумуляторный блок или батареи) воздействию высоких

- температур, включая прямые солнечные лучи, огонь и т.п.
- Во время грозы отключайте устройство от электросети.
- Для извлечения вилки из розетки электросети тяните за вилку, а не за шнур.

#### Риск короткого замыкания или возгорания!

- Идентификационные данные и сведения о требованиях к электропитанию указаны на задней или нижней панели устройства.
- Перед подключением устройства к электросети убедитесь, что напряжение источника питания соответствует напряжению, указанному на задней или нижней панели устройства. Не подключайте устройство к источнику питания, если параметры электросети отличаются.

#### Риск повреждения устройства!

- Не ставьте устройство или другие предметы на шнуры питания или электрические приборы.
- После транспортировки изделия при температуре ниже 5 °С удалите упаковку и подождите, пока его температура достигнет комнатной, а затем подключите устройство к розетке электросети.
- Отдельные детали данного изделия могут быть изготовлены из стекла.
   Во избежание повреждения изделия и получения травм соблюдайте осторожность при переноске.

#### Риск перегрева!

 Никогда не устанавливайте устройство в ограниченном пространстве. Для обеспечения вентиляции оставляйте вокруг устройства не менее 10 см свободного пространства. Убедитесь, что занавески или другие объекты не закрывают вентиляционные отверстия устройства.

#### Риск загрязнения окружающей среды!

- Не устанавливайте одновременно батареи разных типов (старые и новые; угольные и щелочные и т.п.).
- При неправильной замене батарей возникает опасность взрыва. Заменяйте батареи только такой же или эквивалентной моделью.
- При разрядке батарей или в случае длительного простоя устройства батареи необходимо извлечь.
- Батареи содержат химические вещества и должны быть утилизированы в соответствии с установленными правилами.

## Опасность проглатывания батареи!

- В устройстве/пульте ДУ может содержаться плоская батарея/батарея таблеточного типа, которую можно легко проглотить. Хранить батареи необходимо в недоступном для детей месте! Попадание батареи внутрь может стать причиной тяжелых травм или смерти. В течение двух часов с момента попадания батареи внутрь могут возникнуть тяжелые ожоги внутренних органов.
- В случае проглатывания батареи или ее попадания в организм немедленно обратитесь к врачу.
- При замене храните новую и использованную батареи в недоступном для детей месте. После замены проследите за тем, чтобы крышка отсека для батарей была надежно закрыта.
- Если надежно закрыть крышку отсека для батарей невозможно, откажитесь от дальнейшего использования устройства. Поместите его в недоступное для детей место и обратитесь к производителю.



Приборы КЛАССА II с двойной изоляцией и без защитного заземления.



## Осторожное обращение с устройством

- Для очистки устройства (например, для удаления пыли и загрязнений с тканевой поверхности АС) используйте только салфетку из микроволокна. Не используйте чистящие средства для очистки деревянных панелей и тканевой поверхности АС.
- Для очистки кожаных ручек используйте чуть влажную ткань, смоченную в средстве для очистки кожаных изделий, затем протрите кожу сухой мягкой тканью.
- Деревянные панели и кожаные ручки могут отличаться по цвету и текстуре в связи с использованием натуральных материалов.

## Забота об окружающей среде

Утилизация отработавшего изделия и использованных батарей



Данное изделие изготовлено из высококачественных материалов и компонентов, которые подлежат повторной переработке и вторичному использованию.



Этот символ на изделии означает, что оно подпадает под действие Директивы

Европейского парламента и Совета 2012/19/FU



Этот символ означает, что в изделии содержится встроенный аккумулятор, который подпадает под действие Директивы Европейского парламента и Совета 2013/56/EU, согласно которой аккумулятор нельзя утилизировать вместе с бытовыми отходами. Для извлечения аккумулятора настоятельно рекомендуем вам обращаться в специализированный пункт или сервисный центр Philips за помощью специалистов.

Узнайте о правилах местного законодательства по раздельной утилизации электротехнических и электронных изделий и аккумуляторов. Действуйте в соответствии с местным законодательством и не выбрасывайте отслужившие изделия и аккумуляторы вместе с бытовым мусором. Правильная утилизация отслуживших изделий и аккумуляторов поможет предотвратить негативное воздействие на окружающую среду и здоровье.

## Соответствие нормативам

Данное изделие соответствует требованиям Европейского Союза по радиопомехам. Компания Gibson Innovations настоящим заявляет, что данное изделие соответствует основным требованиям и другим применимым положениям Директивы 2014/53/EU. Для ознакомления с декларацией о соответствии перейдите на сайт www.p4c.philips.com.

## Справка и поддержка

Для получения полной поддержки онлайн посетите веб-сайт www.philips.com/support, где вы сможете:

- загрузить руководство пользователя и краткое руководство;
- просмотреть учебные видеоматериалы (доступны только для некоторых моделей);
- просмотреть ответы на часто задаваемые вопросы (FAQ);
- задать вопрос по электронной почте;
- проконсультироваться с представителем службы поддержки в чате.

Следуйте инструкциям на веб-сайте, чтобы выбрать язык, после чего введите номер модели вашего устройства.

С вопросами также можно обратиться в центр поддержки потребителей в вашей стране. Перед обращением запишите номер модели и серийный номер вашего устройства. Эти сведения указаны на задней или нижней панели устройства.

# Программное обеспечение с открытым исходным кодом

Этот продукт содержит программное обеспечение с лицензией Ореп Source. Тексты лицензий и официальных заявлений см. в руководстве пользователя продукта на www.philips.com/support.
Компания Gibson Innovations Limited настоящим предлагает предоставить по запросу копию соответствующего исходного кода для пакетов программного обеспечения с открытым кодом, которые используются в настоящем изделии и в отношении которых согласно соответствующим лицензиям отправляется такой запрос. Это предложение действительно в течение трех лет с

момента приобретения изделия. Для получения исходного кода обратитесь по адресу: open.source-gi@gibson.com. Если вы предпочитаете не использовать электронную почту или вы не получили подтверждение в течение недели после отправки письма на указанный электронный адрес, отправьте письмо по адресу: Open Source Team, Gibson Innovations Limited, 5/F Philips Electronics Building, 5 Science Park East Avenue, Hong Kong Science Park, Shatin, N.T. Hong Kong.

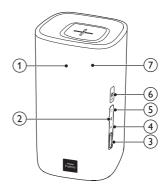
## 2 Ваш продукт

Поздравляем с покупкой, и добро пожаловать в клуб Philips! Чтобы воспользоваться всеми преимуществами поддержки Philips, зарегистрируйте устройство на веб-сайте www.philips.com/welcome.

## Основное устройство

Основное устройство изделия состоит из левой и правой базовых акустических систем.

## Правая базовая АС



- 1 Дисплей
- ② 8 Переключение в режим Bluetooth (только для основного устройства).
- (3) +/- (Громкость)
  Увеличение или уменьшение громкости.
- ⊕
   Выбор источника.

- (5) d
  - Включение устройства.
  - Включение режима ожидания ЕСО, когда устройство не подключено к сети.
  - Включение сетевого режима ожидания, когда устройство подключено к сети.
- (6) Метка NFC
- (7) Красный/белый/оранжевый индикаторы

#### Красный LED-индикатор

 Загорается после перехода в режим ожидания ЕСО (если устройство не подключено к сети).

#### Белый LED-индикатор

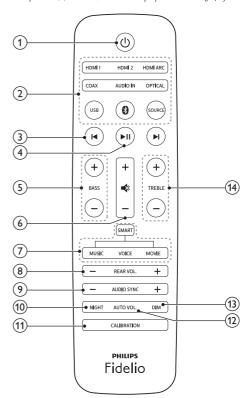
- Мигает, если устройство не подключено к сети или случилась ошибка подключения.
- Загорается, если устройство подключено к сети или устройство находится в сетевом режиме ожидания (подключено к сети).

#### Оранжевый LED-индикатор

• Загорается при обнаружении обновления ПО.

## Пульт ДУ

В данном разделе содержится информация о пульте дистанционного управления (ДУ).



- (1) t
  - Включение устройства.
  - Включение режима ожидания ЕСО, когда устройство не подключено к сети.
  - Включение сетевого режима ожидания, когда устройство подключено к сети.
  - При наличии подключения к сети нажмите и удерживайте для переключения устройства в режим ожидания ЕСО.

## (2) Кнопки выбора источника

- HDMI ARC: выбор подключения HDMI ARC в качестве источника.
- HDMI 1: выбор подключения HDMI IN 1 в качестве источника.
- HDMI 2: выбор подключения HDMI IN 2 в качестве источника.
- СОАХ: Выбор коаксиального подключения в качестве источника аудиосигнала.
- ОРТІСАL: Выбор оптического подключения в качестве источника аудиосигнала.
- AUDIO IN: выбор подключения AUX или AUDIO IN (разъем 3,5 мм) в качестве источника аудиосигнала.
- USB : переход в режим USB.
- 9 : переход в режим Bluetooth (только для основного устройства).
- SOURCE: выбор источника входного сигнала. Для обладателей учетной записи Spotify Premium: быстрое возобновление воспроизведения Spotify Connect.

## (3) | ◀ / ▶ |

Переход к предыдущей или следующей дорожке (для USB/Bluetooth/потоковой передачи музыки в онлайн-режиме).

## (4) ►II

Запуск, приостановка или возобновление воспроизведения (для USB/Bluetooth/ потоковой передачи музыки в онлайнрежиме).

5 BASS +/-

Увеличение или уменьшение уровня басов на основном устройстве.

- (6) Настройка громкости
  - +/-: Увеличение или уменьшение громкости.
  - 🔹 : Отключение и включение звука.
- 7 Управление режимом звука SMART: автоматический выбор предустановленного режима звука в соответствии с типом музыки или видео.

MUSIC: выбор режима стереозвука. VOICE: выбор режима четкого голоса или режима звука CLOSE TO ME (рядом со мной).

**MOVIE**: выбор режима объемного звука.

## (8) REAR VOL.+/-

Нажмите, чтобы увеличить или уменьшить громкость беспроводных АС объемного звучания (применимо, только если АС объемного звучания подключены к основному устройству беспроводным способом или включен режим SOD).

(9) AUDIO SYNC +/-

Увеличение или уменьшение задержки аудиопотока.

(10) NIGHT

Включение или выключение ночного режима.

- (11) CALIBRATION
  - Нажмите и удерживайте для включения калибровки зоны прослушивания.
  - Трижды нажмите, чтобы включить калибровку зоны расположения беспроводных АС объемного звучания.
- (12) AUTO VOL.

Включение или выключение авторегулировки громкости.

①3 DIM

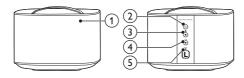
Установка уровня яркости дисплея.

(14) TREBLE +/-

Увеличение или уменьшение уровня высоких частот на основном устройстве.

## Беспроводные AC объемного звучания

В комплект устройства входят две беспроводные АС объемного звучания.



- \* На рисунке выше показаны две беспроводные АС объемного звучания.
- 1 Светодиодный индикатор АС
  - Попеременно мигает красным и оранжевым светом, если не выполнено беспроводное подключение АС объемного звучания к основному устройству.
  - Загорается белым светом, когда выполнено беспроводное подключение АС объемного звучания к основному устройству, а также при полном (или выше 30 %) уровне заряда аккумулятора.
  - Загорается красным светом, если уровень заряда аккумулятора опускается ниже 30 %.
  - Мигает красным светом, если уровень заряда аккумулятора опускается ниже 10 %.
  - Загорается оранжевым светом во время зарядки АС объемного звучания (только для АС объемного звучания, установленных на основное устройство).
- (2) d
  - Нажмите, чтобы включить АС объемного звучания, если она автоматически перешла в режим ожидания.
  - Нажмите и удерживайте для перевода АС объемного звучания в режим ожидания.

- ③ Кнопка Ø / светодиодный индикатор
  - Нажмите для переключения АС объемного звучания в режим Bluetooth,
  - Светодиодный индикатор мигает, если при включении на АС объемного звучания функции Bluetooth к ней не будет подключено Bluetooth-устройство.
  - Светодиодный индикатор загорается, если при включении на AC объемного звучания функции Bluetooth к ней будут подключены Bluetooth-устройства.

## (4) Кнопка SOD / светодиодный индикатор

- Нажмите, чтобы переключить АС объемного звучания в режим SOD (объемный звук по запросу).
- При переключении АС объемного звучания в режим SOD светодиодный индикатор загорается белым светом.

## (5) RESET

Если АС объемного звучания не отвечает, нажмите эту кнопку с помощью заостренного предмета и удерживайте в течение 5 секунд для восстановления заводских параметров АС объемного звучания.

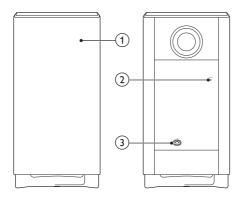


#### Примечание

 При нажатии кнопки В на АС объемного звучания она отключается от основного устройства (или выключается режим SOD).

## Беспроводной сабвуфер

В комплект устройства входит беспроводной сабвуфер.



## Индикатор сабвуфера

- Мигает, когда сабвуфер не подключен или подключается к основному устройству.
- Загорается при подключении сабвуфера к основному устройству.
- Гаснет при переходе сабвуфера в режим ожидания или при отсутствии беспроводного подключения в течение 4 минут.

## CONNECT (подключение)

Нажмите, чтобы перейти в режим сопряжения и выполнить подключение к основному устройству.

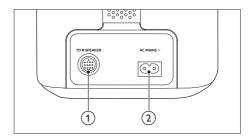
3 AC MAINS~

Подключение к источнику питания.

## Разъемы

В данном разделе содержится информация о разъемах на системе.

## На левой базовой АС



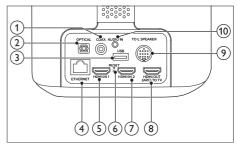
## TO R SPEAKER

Подключение к правой базовой AC с помощью прилагаемого кабеля DIN.

(2) AC MAINS~

Подключение к источнику питания.

## На правой базовой АС



## (1) COAX

Подключение к коаксиальному аудиовыходу телевизора или к цифровому устройству.

## (2) OPTICAL

Подключение к оптическому аудиовыходу телевизора или цифрового устройства.

## (3) USB

- Подключение запоминающего устройства USB для воспроизведения аудиофайлов.
- Обновление программы продукта.

## (4) ETHERNET

Подключение к порту Ethernet широкополосного модема или маршрутизатора.

## (5) HDMI IN 1

Подключение к выходу HDMI на цифровом устройстве.

## (6) RESET

Если АС объемного звучания не отвечает, нажмите эту кнопку с помощью заостренного предмета и удерживайте в течение 5 секунд для восстановления заводских параметров устройства.

## (7) HDMI IN 2

Подключение к выходу HDMI на цифровом устройстве.

## (8) TO TV - HDMI OUT (ARC)

Подключение к входу HDMI (ARC) на телевизоре.

## (9) TO L SPEAKER

Подключение к левой базовой AC с помощью прилагаемого кабеля DIN.

## (10) AUDIO IN

Подключение к аудиовыходу на устройстве, если в качестве источника выбрано соединение AUDIO IN или AUX (необходимо последовательно нажать кнопку **AUDIO IN** на пульте ДУ).

# 3 Подключение и настройка

В этом разделе приведена информация по подключению системы к телевизору и другим устройствам, а также сведения о настройке.

Для получения сведений об основных подключениях системы и дополнительного оборудования обратитесь к краткому руководству пользователя.



#### Примечание

- Идентификационные данные и сведения о требованиях к электропитанию указаны на задней или нижней панели устройства.
- Перед выполнением или изменением каких-либо подключений убедитесь, что все устройства отключены от розетки электросети.

## Подключение основного устройства

С помощью прилагаемого кабеля DIN подключите левую базовую АС к правой в качестве основного устройства. Подробные сведения см. в кратком руководстве пользователя.

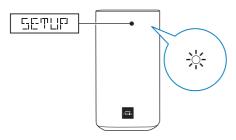


#### Внимание

 Во избежание повреждения устройства при подключении прилагаемого кабеля DIN к разъемам на основном устройстве убедитесь, что вы подключаете кабель DIN в правильной ориентации.

## Запрос на настройку сети

При первом включении или в том случае, если подключение к сети не настроено, отобразится запрос на настройку сети для потоковой передачи музыки из музыкальных онлайн-приложений.

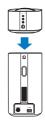


- → На дисплее этого устройства отобразится индикация SETUP (установка).
- Белый светодиодный индикатор на правой базовой АС начнет мигать.
- Для получения инструкций по запуску настройки сети см. главу "Chromecast built-in и Spotify Connect".
- Чтобы пропустить настройку сети, выберите другой источник аудиовхода.

## Зарядка АС

Если беспроводная AC объемного звучания не закреплена на основном устройстве, на уровень заряда аккумулятора указывают индикаторы беспроводной AC.

- Загорается белым светом: аккумулятор заряжен на 30–100 %
- Загорается красным светом: низкий уровень заряда (меньше 30 %)
- Мигает красным: почти разряжен (меньше 10 %)





- Для зарядки закрепите левую и правую беспроводные АС на основном устройстве (на левой и правой базовых АС соответственно).
- 2 Включите основное устройство.
  - → Во время зарядки на беспроводной АС загорится оранжевый светодиодный индикатор.
  - → Когда система будет полностью заряжена, оранжевый светодиодный индикатор на беспроводной АС погаснет.



Примечание

• Для полной зарядки АС требуется около 3 часов.

# Выполнение сопряжения с основным устройством вручную

Сопряжение беспроводных АС и сабвуфера с основным устройством (с левой и правой базовыми АС) происходит автоматически при включении всех составляющих системы. Выполнение сопряжения с основным устройством вручную требуется в одном из следующих случаев.

- Звук с основного устройства не слышен из беспроводных АС и сабвуфера.
- Несколько комплектов Philips E6
  расположены на близком расстоянии
  друг от друга (10 м).

- Закрепите беспроводные АС объемного звучания на основном устройстве.
- 2 Включите основное устройство и сабвуфер.
- 3 На сабвуфере нажмите кнопку CONNECT (подключение), чтобы включить режим сопряжения.
  - → Индикатор на сабвуфере быстро мигает.
- 4 В режиме HDMI ARC (нажмите HDMI ARC) на пульте ДУ в течение 6 секунд дважды нажмите 

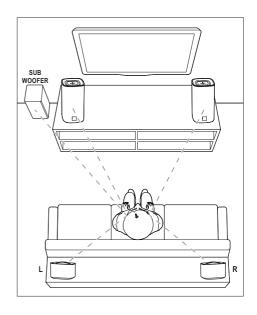
  праз Громкость +, а затем нажмите и удерживайте кнопку BASS +.
  - → Если сопряжение успешно установлено, индикатор на сабвуфере горит.
  - Если сопряжение не выполнено, индикатор на сабвуфере медленно мигает.
- 5 Если сопряжение установить не удалось, повторите описанную выше процедуру.



 Если отсутствует звук из беспроводных АС объемного звучания, не закрепленных на основном устройстве, или светодиодный индикатор на беспроводной АС объемного звучания попеременно мигает красным и оранжевым светом, можно закрепить, а затем снять АС объемного звучания для установления беспроводного подключения с основным устройством.

## Размещение АС

Чтобы получить наилучший эффект звучания, установите все АС по направлению к зрителю на уровне ушей (в положении сидя).





## Примечание

 Эффект объемного звучания зависит от таких факторов, как форма комнаты и ее размер, тип стен и потолков, окон и отражающих поверхностей, а также от акустических характеристик АС. Поэкспериментируйте с положением АС, чтобы найти оптимальное их расположение.

Воспользуйтесь этими общими рекомендациями по расположению АС.

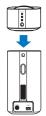
- Положение зрителя
   Это центр области прослушивания.
- Установите основное устройство (левую и правую базовые АС) напротив сидящего зрителя.
- J L/ R АС объемного звучания (левая/ правая): Разместите тыловые АС объемного звучания с левой и правой стороны от положения зрителя, либо вровень с ним,
- **4** SUBWOOFER (сабвуфер):

либо слегка сзади.

Установите сабвуфер на расстоянии не менее одного метра слева или справа от телевизора. Расстояние до стены должно составлять около 10 см.

## Закрепление АС на основном устройстве

АС объемного звучания также можно закрепить на основном устройстве, чтобы воспроизводить звук, например, при просмотре телепередач и новостей.





## Подключение аудио с телевизора

Подключите данную систему к телевизору. При просмотре телепрограмм можно воспроизводить звук через АС устройства.

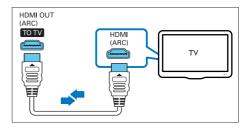
## Вариант 1. Подключение к телевизору через разъем HDMI (ARC).

## Звук лучшего качества

Данная система поддерживает HDMI с реверсивным звуковым каналом (ARC). Благодаря функции ARC можно прослушивать звук с телевизора на этом устройстве с помощью одного кабеля HDMI.

## Что требуется

- Высокоскоростной кабель HDMI.
- Телевизор поддерживает HDMI ARC и HDMI-CEC (для получения дополнительной информации см. руководство пользователя телевизора).
- На некоторых моделях телевизоров выход внешних АС необходимо включить в меню настроек телевизора (для получения дополнительной информации см. руководство пользователя телевизора).



- 1 С помощью высокоскоростного кабеля HDMI подключите разъем HDMI OUT (ARC) на продукте к разъему HDMI ARC на телевизоре.
  - Разъем телевизора HDMI ARC может быть обозначен иначе. Дополнительные сведения см. в руководстве пользователя телевизора.
- **2** На телевизоре включите управление HDMI-CEC.
  - При возникновении проблем с HDMI-CEC на телевизоре см. руководство пользователя телевизора, чтобы убедиться, что настройка HDMI-CEC выполнена правильно. Вы также можете обратиться к производителю телевизора.
- **3** Нажмите HDMI ARC на пульте ДУ этого устройства, чтобы активировать подключение HDMI ARC.

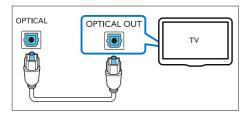


#### Примечание

- Полная функциональная совместимость со всеми устройствами с поддержкой HDMI-CEC не гарантируется.
- Если телевизор не поддерживает HDMI ARC, для прослушивания звука с телевизора на продукте необходимо подключить аудиокабель.

## Вариант 2. Подключение к телевизору с помощью оптического кабеля

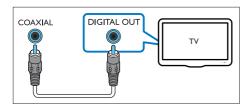
#### Звук лучшего качества



- С помощью оптического кабеля подключите разъем OPTICAL этого устройства к оптическому выходу на телевизоре.
  - Цифровой оптический выход на телевизоре может иметь обозначение OPTICAL OUT, SPDIF или SPDIF OUT.
- 2 Нажмите OPTICAL на пульте ДУ этого устройства, чтобы активировать оптическое подключение.

## Вариант 3. Подключение к телевизору с помощью коаксиального кабеля

#### Звук лучшего качества

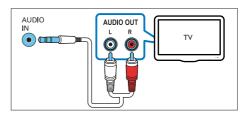


- С помощью коаксиального кабеля подключите разъем COAXIAL этого устройства к коаксиальному выходу на телевизоре.
  - Цифровой коаксиальный выход на телевизоре может иметь обозначение COAXIAL/DIGITAL OUT или DIGITAL AUDIO OUT.

2 Нажмите COAX на пульте ДУ этого устройства, чтобы активировать коаксиальное подключение.

# Вариант 4. Подключение к телевизору с помощью аналоговых аудиокабелей

#### Звук обычного качества



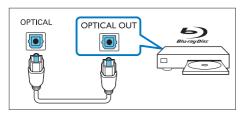
- 1 С помощью аналогового кабеля подключите AUDIO IN (разъем 3,5 мм) на этом устройстве к аналоговому аудиовыходу (красный и белый) на телевизоре.
  - Аналоговый аудиовыход на внешнем устройстве может иметь обозначение AUDIO OUT.
- 2 Несколько раз нажмите AUDIO IN на пульте ДУ этого устройства, чтобы активировать аналоговое аудиоподключение.
  - → На дисплее этого устройства отобразится индикация AUX.

# Подключение для воспроизведения звука с других устройств

Вы можете воспроизводить аудиопоток с других устройств через AC этого устройства.

# Вариант 1. Подключение к другому устройству с помощью оптического кабеля

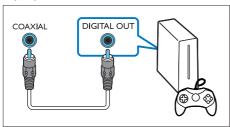
## Звук лучшего качества



- С помощью оптического кабеля подключите разъем OPTICAL этого устройства к оптическому выходу на внешнем устройстве.
  - Цифровой оптический выход на внешнем устройстве может иметь обозначение OPTICAL OUT, SPDIF или SPDIF OUT.
- Нажмите OPTICAL на пульте ДУ этого устройства, чтобы активировать оптическое подключение.

## Вариант 2. Подключение к другому устройству с помощью коаксиального кабеля

#### Звук лучшего качества

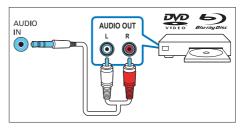


- 1 С помощью коаксиального кабеля подключите разъем **COAXIAL** этого устройства к коаксиальному выходу на внешнем устройстве.
  - Цифровой коаксиальный выход на внешнем устройстве может иметь обозначение COAXIAL/DIGITAL OUT или DIGITAL AUDIO OUT.

2 Нажмите **COAX** на пульте ДУ этого устройства, чтобы активировать коаксиальное подключение.

# Вариант 3. Подключение к другому устройству с помощью аналоговых аудиокабелей

## Звук обычного качества



- 1 С помощью аналогового кабеля подключите AUDIO IN (разъем 3,5 мм) на этом устройстве к аналоговому аудиовыходу (красный и белый) на внешнем устройстве.
  - Аналоговый аудиовыход на внешнем устройстве может иметь обозначение AUDIO OUT.
- 2 Нажмите AUDIO IN на пульте ДУ этого устройства, чтобы активировать аналоговое аудиоподключение.
  - → На дисплее этого устройства отобразится индикация AUX.

## Подключение цифровых устройств через HDMI

Для подключения цифрового устройства, например телеприставки, игровой приставки или DVD-плеера / проигрывателя Blu-ray к данному продукту используйте разъем HDMI. При таком подключении устройства для воспроизведения файла или игры

- видео автоматически отобразится на экране телевизора, а
- звук будет воспроизведен автоматически.

- При помощи высокоскоростного кабеля HDMI подключите разъем HDMI OUT на цифровом устройстве к разъему HDMI IN 1/2 на этом продукте.
- 2 С помощью высокоскоростного кабеля HDMI подключите разъем HDMI OUT (ARC) на продукте к разъему HDMI на телевизоре.
  - Включите на телевизоре и подключенном устройстве функцию управления HDMI-CEC (если имеется). Более подробную информацию см. в инструкции по эксплуатации телевизора и устройства.
- 3 Нажмите HDMI 1/2 на пульте ДУ этого устройства, чтобы активировать подключение HDMI IN.
  - Если телевизор не поддерживает HDMI СЕС, выберите на нем нужный видеовход.

## 4 Chromecast built-in и Spotify Connect

С помощью АС этого устройства вы можете слушать музыку из следующих музыкальных онлайн-сервисов.

- Приложения с поддержкой Chromecast
- Spotify Connect

#### Что требуется

- Смартфон/планшет с ОС Android 4.3 или более поздней версии; iPhone/iPad с ОС iOS 8.0 или более поздней версии.
- Загруженное из магазина iOS App Store или Google Play приложение Philips **HCWeSet**.
- Сетевой маршрутизатор.
- Сетевой кабель (при проводном подключении).

## Подключение устройства к сети

Чтобы использовать сервисы Chromecast built-in и Spotify Connect, требуется выполнить настройку сети для подключения устройства.

## Перед началом работы

- Убедитесь, что это изделие и мобильное устройство подключены к одной сети.
- Для проводного соединения подключите сетевой кабель к разъему LAN на этом устройстве и к сетевому маршрутизатору.
- Для беспроводного подключения устройство оснащено встроенным модулем Wi-Fi.
- **1** Запустите приложение Philips HCWeSet на мобильном устройстве.

- Для завершения установки следуйте инструкциям на экране в приложении.
  - Для начала настройки на главной странице настройки выберите пункт Setup New Speaker (Настройка новой АС).
  - Для пользователей iOS: при появлении запроса перейдите к списку сетей Wi-Fi устройства iOS и выберите данное устройство, затем вернитесь к приложению для продолжения настройки сети.
  - Во время подключения системы к сети светодиодный индикатор на правой базовой АС мигает белым светом.
  - После подключения системы к сети светодиодный индикатор на правой базовой АС загорится ровным белым светом.



## Примечание

- Во время настройки сети примите условия предоставления услуг и политики конфиденциальности Google, чтобы включить поддержку приложений Chromecast.
- Если не удается установить соединение во время настройки сети, следуйте инструкциям на экране для повторной установки.

## Потоковая передача музыки на данное устройство

После успешной настройки сети вы сможете передавать музыку на данное изделие в потоковом режиме из онлайн-сервисов Chromecast built-in и Spofity Connect.

- 1 Запустите приложение Philips HCWeSet на мобильном устройстве.
- Перейдите на главную страницу приложения.
  - → Приложения с поддержкой Chromecast и приложение Spotify отображаются на главной странице.

- 3 Нажмите на значок музыкального сервиса, чтобы начать воспроизведение музыки.
  - Если музыкальное приложение уже установлено на мобильное устройство, то оно запустится.
  - Если музыкальное приложение не установлено на мобильное устройство, вас направят в Google Play или iOS App Store для установки приложения.
  - Чтобы получить подробные инструкции по использованию Chromecast built-in и Spotify Connect, см. раздел "Перемещение по основному меню приложения".
  - Музыка, которая воспроизводится на мобильном устройстве, передается на систему.



#### Примечание

- После настройки сети, если на мобильном устройстве установлены приложения Spotify или Chromecast (например, Google Play Music, Tuneln Radio и пр.), можно просто запустить эти музыкальные приложения для потоковой передачи музыки на систему в онлайн-режиме.
- Для использования сервиса Spotify Connect необходима учетная запись Spotify Premium.
- При обнаружении обновления ПО на правой базовой АС загорается оранжевый светодиодный индикатор.

## Перемещение по основному меню приложения

- **1** Запустите приложение Philips HCWeSet на мобильном устройстве.
- Перейдите на главную страницу приложения.

- 3 Нажмите ≡ для доступа к различным функциям в меню параметров.
  - Функция My Speakers (Подключенные АС): позволяет проверять версию ПО системы, обновлять ПО системы, восстанавливать заводские настройки по умолчанию, изменять имя устройства и устанавливать часовой пояс.
  - Инструкция по использованию Chromecast built-in.
  - Инструкция по использованию Spotify Connect.
  - Доступ к юридической информации.
  - Доступ к центру поддержки потребителей.

## 5 Пространственная калибровка

Пространственная калибровка оптимизирует качество объемного звучания для достижения наиболее комфортных условий прослушивания.

- Размещайте беспроводные АС объемного звучания в любом удобном месте и
- выполняйте автоматическую настройку беспроводных АС объемного звучания в зависимости от положения прослушивания.

Пространственная калибровка включает в себя два шага.

- Шаг 1: калибровка зоны прослушивания.
- Шаг 2: калибровка положения АС объемного звучания.

#### Когда следует выполнять калибровку

- Если вы впервые выполняете пространственную калибровку, последовательно выполните шаг 1 и шаг 2.
- Если вы решили изменить положение прослушивания, последовательно выполните war 1 и war 2.
- Если вы решили изменить расположение беспроводных АС объемного звучания, выполните только шаг 2 (шаг 1 можно пропустить).

#### Перед началом работы

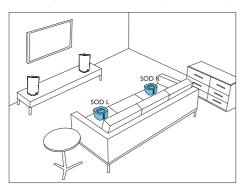
- Убедитесь, что в комнате достаточно
- Убедитесь, что между левой и правой базовыми АС нет препятствий, блокирующих сигнал.
- Разместите беспроводные АС объемного звучания так, чтобы динамик был направлен на основное устройство.
- Убедитесь, что между основным устройством и беспроводными АС объемного звучания нет препятствий, блокирующих сигнал.

- Минимальное расстояние между левой и правой базовыми АС составляет 0,8 м, максимальное расстояние — 3 м.
- Минимальное расстояние между беспроводными АС объемного звучания и основным устройством составляет 0,8 м, а максимальное — 6 м.

## Шаг 1: калибровка зоны прослушивания.

Этот шаг необходим для оптимизации звучания за счет настройки в соответствии с положением прослушивания.

- 1 Расположите беспроводные АС объемного звучания на двух любимых местах прослушивания (например, на диване).
  - Убедитесь, что выполнено беспроводное подключение беспроводных АС объемного звучания к основному устройству (нажмите SOD на беспроводной АС).



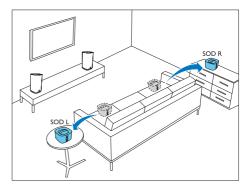
- Нажмите и три секунды удерживайте кнопку CALIBRATION на пульте ДУ для включения калибровки.
  - → На дисплее отобразится индикация ZONE (зона).
  - → Во время калибровки беспроводные АС объемного звучания будут воспроизводить звук.

- **3** Подождите, пока воспроизведение звуков не закончится.
  - → На дисплее отобразится индикация ->SPEAKER (AC).
- 4 Затем выполните шаг 2 (калибровка положения АС объемного звучания) для завершения и сохранения новых настроек.

# Шаг 2: калибровка положения АС объемного звучания.

Этот шаг необходим для оптимизации звучания за счет настройки в зависимости от расположения беспроводных АС объемного звучания.

- 1 Расположите беспроводные AC объемного звучания в предпочтительных местах.
  - Убедитесь, что выполнено беспроводное подключение беспроводных АС объемного звучания к основному устройству (нажмите SOD на беспроводной АС).



- 2 Нажмите CALIBRATION один раз для запуска калибровки.
  - Три раза нажмите CALIBRATION для запуска калибровки, если вы решили переместить беспроводные

- АС объемного звучания. Пропустите шаг 1 (калибровка зоны прослушивания), если он был выполнен во время предыдущей пространственной калибровки.
- → Во время калибровки беспроводные АС объемного звучания будут воспроизводить звук.
- 3 Подождите, пока воспроизведение звуков не закончится.
  - → Если калибровка выполнена успешно, на дисплее будет отображено сообщение DONE (готово). Новые настройки будут сохранены.



#### Примечание

- Пространственная калибровка занимает приблизительно 3 минуты.
- Улучшение объемного звучания будет заметно, только если беспроводные АС объемного звучания располагались неверно или если в воспроизводимой музыке есть сильный эффект объемного звучания.
- Если положение беспроводных АС объемного звучания перепутано, по окончании калибровки на несколько секунд отобразится индикация L<->R, затем калибровка завершится.
- Можно отменить калибровку, нажав CALIBRATION.
   Настройки вернутся к заводским параметрам.
- Если во время пространственной калибровки произойдет сбой, на дисплее будет отображено сообщение об ошибке, например FAIL (Сбой).
   Настройки вернутся к заводским параметрам.
- Если во время выполнения пространственной калибровки произошел сбой, попробуйте выполнить ее снова, строго следуя инструкциям, приведенным в начале этой главы.

## 6 Использование продукта

В этом разделе описаны способы использования данной системы для воспроизведения звука с подключенных устройств.

### Перед началом работы

- Выполните необходимые подключения, описанные в кратком руководстве и руководстве пользователя.
- Выберите на этой системе источник, соответствующий нужному устройству.

## Настройка уровня громкости

- Нажмите Громкость +/-, чтобы увеличить или уменьшить уровень громкости.

  - Чтобы снова включить звук, нажмите

     « или Громкость +/-.

## Только для беспроводных АС объемного звучания

1 Если беспроводные АС объемного звучания подключены к основному устройству беспроводным способом (в режиме SOD), для увеличения или уменьшения уровня громкости нажмите REAR VOL.+/-.

## Выбор режима звука

Данный раздел поможет идеально настроить звук для воспроизведения видео или прослушивания музыки.

## Режим звука

Выберите предустановленные режимы звука в соответствии с типом видео или музыки.

- Нажмите MOVIE, чтобы включить эффект объемного звучания. Идеально подходит для просмотра фильмов.
- Нажмите MUSIC, чтобы включить двухканальный или многоканальный стереозвук. Идеально подходит для прослушивания музыки.
- Нажмите VOICE для создания звукового эффекта, который делает человеческий голос более чистым и четким для прослушивания.
- Нажмите SMART, чтобы автоматически выбрать предустановленный режим звука (MOVIE, MUSIC или VOICE) в соответствии с входным аудиосигналом и оптимизировать качество звучания.

## CLOSE TO ME (рядом со мной)

Для получения максимально четкого звука, который не будет мешать находящимся рядом людям, разместите обе беспроводные АС объемного значения рядом с собой и включите эту функцию (на основном устройстве звук выключится).



#### Примечание

- Функция применима, только если беспроводные АС объемного звучания подключены к основному устройству беспроводным способом (или включен режим SOD).
- Если включена функция CLOSETO ME (рядом со мной), кнопки MOVIE и MUSIC отключаются.
- Для включения функции нажмите и удерживайте кнопку VOICE в течение трех секунд.
  - Индикация CLOSETO ME (рядом со мной) один раз отобразится на дисплее.
  - → Звук основного устройства будет отключен.

- Для выхода из этого режима звука снова нажмите и удерживайте VOICE в течение трех секунд.
  - → Включится предыдущий режим звука.

## Эквалайзер

Изменение настроек высоких (ВЧ) и низких частот (НЧ) на данной системе.

1 Нажмите TREBLE +/- или BASS +/- для изменения частоты.

## Синхронизация аудиопотока и видеоряда

Если аудиопоток не синхронизован с видеорядом, можно настроить время задержки аудиопотока для соответствия видеоряду.

- 1 Чтобы синхронизировать аудио- и видеопотоки, нажмите AUDIO SYNC +/-
  - AUDIO SYNC + увеличивает задержку звука, а AUDIO SYNC сокращает задержку звука.

## Авторегулировка громкости

Включите авторегулировку громкости, чтобы при переключении источника сигнала уровень громкости оставался неизменным. В этом режиме также нивелируется динамика звука: тихие сцены звучат громче, а громкие — тише.

- 1 Чтобы включить или выключить авторегулировку громкости, нажмите AUTO VOL...

## Ночной режим

При воспроизведении аудиопотока ночной режим уменьшает уровень громких звуков и обеспечивает более спокойное прослушивание. Ночной режим доступен только для аудиофайлов в формате Dolby Digital.

- Чтобы включить или выключить ночной режим, нажмите NIGHT.
  - → При включении ночного режима на дисплее быстро отобразится индикация ON NIGHT.
  - → При выключении ночного режима на дисплее быстро отобразится индикация OFF NIGHT.



 Если включена авторегулировка громкости, ночной режим включить нельзя.

## МР3-плеер

Подключите MP3-плеер для воспроизведения аудиофайлов и музыки.

## Что вам потребуется

- MP3-плеер.
- Аудиокабель стерео 3,5 мм.
- С помощью стереоаудиокабеля 3,5 мм подключите MP3-плеер к разъему AUDIO IN на правой базовой АС.
- Нажмите AUDIO IN несколько раз.
   → На дисплее отобразится сообщение AUDIO IN
- 3 С помощью кнопок MP3-плеера выберите аудиофайлы и запустите воспроизведение.
  - На МРЗ-плеере рекомендуется установить громкость на уровне 80 % от максимального значения.

## Запоминающие устройства USB

Воспроизводите аудиофайлы с запоминающего устройства USB, например MP3-плеера или флеш-накопителя USB и пр.

## Что требуется

- Запоминающее устройство USB, отформатированное в файловой системе FAT или NTFS и соответствующее стандарту запоминающих устройств Mass Storage Class.
- **1** Подключите накопитель USB к этой системе.
- 2 Нажмите USB на пульте ДУ.
- 3 Используйте пульт ДУ для управления воспроизведением.
  - Нажмите II для начала, приостановки или возобновления воспроизведения.
  - Нажмите I◀/►I для перехода к предыдущей или следующей дорожке.
  - Нажмите USB во время воспроизведения с источника USB для выбора одного из следующих режимов воспроизведения.
    - RPT TRACK: повтор текущей дорожки.
    - RPT ALL: повтор всех дорожек в текущей папке.
    - **RPT RANDOM**: воспроизведение дорожек в текущей папке в случайном порядке.
    - RPT OFF: выход из режима повторного воспроизведения или воспроизведения в случайном порядке.



- Это устройство может не поддерживать некоторые типы запоминающих устройств USB.
- Если вы используете удлинительный кабель USB, концентратор USB или универсальное устройство чтения USB, запоминающее устройство USB может быть не распознано.
- Протоколы РТР и МТР цифровых камер не поддерживаются.
- Не извлекайте запоминающее устройство USB во время чтения.
- Не поддерживаются аудиофайлы с защитой DRM (MP3).
- Поддержка USB-порта: 5 В ===, 1 А.

## Воспроизведение музыки через соединение Bluetooth

С помощью Bluetooth можно подключить данную систему к устройству Bluetooth (например, iPad, iPhone, iPod touch, телефону Android или ноутбуку) и слушать аудиофайлы, сохраненные на устройстве, через АС.

## Что требуется

- Устройство Bluetooth с поддержкой следующих параметров.
  - Профили Bluetooth: A2DP, AVRCP
  - Версия Bluetooth: Bluetooth V4.1 с поддержкой технологии низкого энергопотребления
- Рабочий диапазон между основным устройством (левой и правой базовыми АС) и устройством Bluetooth составляет примерно 10 метров.



#### Примечание

- Передача аудиопотока может прерываться из-за наличия между устройством и системой препятствий, таких как стены, металлический корпус устройства или другие устройства, расположенные рядом и работающие на той же частоте.
- Если вы хотите подключить систему к другому Bluetooth-устройству, выполните сброс текущего подключения Bluetooth.

## Bluetooth на основном устройстве

- 1 Нажмите 8 на пульте ДУ, чтобы переключить основное устройство в режим Bluetooth.
  - → На дисплее мигает индикация ВТ.
- 2 На устройстве Bluetooth включите режим Bluetooth, для установления подключения найдите и выберите устройство Philips E6 (для получения информации об активации режима Bluetooth ознакомьтесь с инструкциями в руководстве пользователя устройства Bluetooth).
  - → Во время подключения на дисплее мигает сообщение ВТ.
- 3 Подождите, пока на дисплее не загорится индикация **BT**.
  - → Если подключение выполнено успешно, на дисплее загорится индикация ВТ.
  - → Если не удалось установить подключение, на дисплее будет мигать индикация ВТ.
- 4 Выберите аудиофайлы и включите воспроизведение на устройстве Bluetooth.
  - Если во время воспроизведения поступает входящий вызов, воспроизведение приостанавливается (функция зависит от модели подключенного телефона).
  - Если устройство Bluetooth поддерживает профиль AVRCP, на пульте ДУ можно нажать I◄/►I для перехода к дорожке или ►II для приостановки/возобновления воспроизведения.
  - Если потоковая передача музыки прервалась, поднесите Bluetoothустройство ближе к основному устройству.

- 5 Чтобы выйти из режима Bluetooth, выберите другой источник.
  - → При возврате в режим Bluetooth подключение Bluetooth возобновится.
  - Для сброса текущего подключения Bluetooth нажмите и удерживайте 8 на пульте ДУ.

## Bluetooth на одной из AC объемного звучания

Левую или правую AC объемного звучания можно использовать как отдельную независимую от основного устройства AC Bluetooth.



- Нажмите кнопку № на левой или правой АС объемного звучания для включения режима Bluetooth.
  - → Светодиодный индикатор ® на левой или правой АС объемного звучания мигает.
- 2 Включите Bluetooth на Bluetoothустройстве, найдите и выберите имя левой или правой АС объемного звучания для выполнения подключения (для получения информации о том, как включить Bluetooth, см. руководство пользователя Bluetooth-устройства).
  - Philips E6 -L обозначение левой АС объемного звучания, Philips E6 -R — обозначение правой АС объемного звучания.
  - → Во время подключения мигает светодиодный индикатор ® на левой или правой АС объемного звучания.

- 3 Подождите, пока не загорится светодиодный индикатор 9 на АС объемного звучания.
  - ⇒ Если соединение установлено, прозвучит сигнал подключения и загорится светодиодный индикатор
     в на АС объемного звучания.
  - → Если произошел сбой подключения, светодиодный индикатор 9 на АС объемного звучания будет мигать.
- 4 Выберите аудиофайлы и включите воспроизведение на устройстве Bluetooth.
  - Если во время воспроизведения поступает входящий вызов, воспроизведение приостанавливается (функция зависит от модели подключенного телефона).
  - Если потоковая передача музыки прервалась, поднесите Bluetoothустройство ближе к АС объемного звучания.
- 5 Для выхода из режима Bluetooth нажмите кнопку **SOD** на AC объемного звучания.
  - АС объемного звучания повторно подключается к основному устройству беспроводным способом.
  - → При возврате в режим Bluetooth подключение Bluetooth возобновится.
  - Для сброса текущего Bluetoothподключения нажмите и удерживайте кнопку 9 на АС объемного звучания.



• Управление с помощью пульта ДУ недоступно для этой функции.

## Беспроводные AC, стерео, Bluetooth

Можно также независимо от основного устройства выполнить сопряжение левой и правой АС объемного звучания друг с другом по Bluetooth для создания стереоэффекта.

Левая AC объемного звучания выступает в роли ведущей AC, а правая AC объемного звучания в качестве ведомой.



- Нажмите кнопку № на левой и правой АС объемного звучания для переключения обеих АС в режим Bluetooth.
  - Убедитесь, что обе АС объемного звучания включены.
  - Убедитесь, что правая АС объемного звучания в настоящий момент не подключена к другому Bluetooth-устройству.
  - Светодиодные индикаторы в на левой и правой АС объемного звучания мигают.
- 2 Нажмите кнопку Ф на левой и правой АС объемного звучания для запуска процесса сопряжения.
  - → Светодиодный индикатор № на левой АС объемного звучания мигает, а светодиодный индикатор № на правой АС объемного звучания загорается, обозначая, что правая АС объемного звучания подключена к левой.

- 3 Включите Bluetooth на Bluetoothустройстве, выполните поиск и выберите Philips E6 L для подключения левой АС объемного звучания к Bluetooth-устройству (информацию о включении режима Bluetooth см. в руководстве пользователя устройства Bluetooth).
  - ⇒ Во время подключения левой АС объемного звучания к Bluetoothустройству светодиодный индикатор 8 на левой АС объемного звучания продолжает мигать.
- - → При успешном подключении левой АС объемного звучания к Вluetooth-устройству загорается светодиодный индикатор 

     на левой АС объемного звучания.
  - → Если не удалось осуществить подключение левой АС объемного звучания к Bluetooth-устройству, светодиодный индикатор 
    Ф на левой АС объемного звучания продолжает мигать.
- Выберите аудиофайлы и включите воспроизведение на устройстве Bluetooth.
  - Если во время воспроизведения поступает входящий вызов, воспроизведение приостанавливается (функция зависит от модели подключенного телефона).
  - Если потоковая передача музыки прервалась, поднесите Bluetoothустройство ближе к левой АС объемного звучания.
- 6 Чтобы сбросить сопряжение правой и левой АС объемного звучания, нажмите SOD на правой АС объемного звучания. Чтобы выйти из режима Bluetooth или прекратить воспроизведение через

**Bluetooth**, нажмите **SOD** на левой AC объемного звучания.



 Управление с помощью пульта ДУ недоступно для этой функции.

## Подключение Bluetooth через NFC

Коммуникация ближнего поля (NFC) — это технология беспроводной связи малого радиуса действия, позволяющая осуществлять подключение между поддерживающими NFC устройствами, такими как мобильные телефоны.

## Что требуется

- Устройство Bluetooth с функцией NFC.
- Для сопряжения коснитесь устройством NFC метки **NFC** на правой базовой AC.



- Функция NFC доступна только для основного устройства. Эта функция недоступна для левой и правой АС объемного звучания.
- 1 Включите NFC на устройстве Bluetooth (подробную информацию см. в руководстве пользователя устройства).
- Коснитесь устройством NFC метки NFC на данной системе и удерживайте его до появления звукового сигнала.
  - Убедитесь, что система включена из режима ожидания и не подключена к другому Bluetooth-устройству.
  - → На дисплее загорится индикация ВТ, а устройство NFC подключится к системе через Bluetooth.

- → Если не удалось установить соединение, на дисплее будет мигать индикация ВТ.
- 3 Выберите аудиофайлы и включите воспроизведение на устройстве NFC.
  - Чтобы разорвать соединение, снова коснитесь устройством NFC метки NFC на данной системе.

## Автоматический переход в режим ожидания

## Сетевой режим ожидания

Если устройство подключено к сети, через 15 минут бездействия оно автоматически переходит в сетевой режим ожидания. В сетевом режиме ожидания время повторного запуска сокращено. Этот режим оптимизирован для потокового воспроизведения музыки из мобильных приложений.

#### Режим ожидания ЕСО

Если устройство не подключено к сети, через 15 минут бездействия оно автоматически переходит в режим ожидания ЕСО. В режиме ожидания ЕСО повторный запуск занимает больше времени, при этом расходуется меньше электроэнергии. При наличии подключения к сети можно также нажать и удерживать Ф на пульте ДУ, чтобы перевести устройство в режим ожидания ЕСО.



#### Примечание

- Если устройство находится в режиме ожидания ECO, загорается красный светодиодный индикатор на правой базовой AC.
- Если устройство находится в сетевом режиме ожидания, на правой базовой АС гаснет красный светодиодный индикатор и загорается белый.

## Установка яркости дисплея

Последовательно нажимайте **DIM**, чтобы настроить яркость дисплея на устройстве. При выборе **DIM 0** светодиодная индикация выключается, если в течение 10 секунд не была нажата ни одна кнопка.

## Восстановление заводских установок

В случае если устройство не отвечает или произошел сбой настройки сети, вы можете восстановить заводские параметры, установленные по умолчанию.



#### Примечание

 После восстановления заводских установок система автоматически выключится и перезапустится.

## Вариант 1.

- **1** Запустите приложение Philips HCWeSet на мобильном устройстве.
  - Убедитесь, что устройство подключено к сети.
  - Убедитесь, что АС объемного звучания подключены к основному устройству.
- Перейдите на главную страницу приложения.
- 3 Нажмите ≡, чтобы перейти в меню параметров.
- **4** Выберите My Speakers (Подключенные AC).
  - → Появится список подключенных устройств.
- 3 Затем выберите Factory Reset (Восстановление заводских настроек) и следуйте инструкциям на экране.

## Вариант 2.

1 Чтобы выполнить сброс настроек системы, на правой базовой АС и затем на беспроводных АС объемного звучания нажмите RESET с помощью заостренного предмета и удерживайте в течение 5 секунд,

# 7 Обновление программного обеспечения

Обновление программного обеспечения позволяет максимально использовать возможности системы и получать техническую поддержку.



#### Примечание

- Если система подключена к сети, при обнаружении обновления ПО загорается оранжевый светодиодный индикатор на правой базовой АС.
- Обновление может занять некоторое время.
   Во время обновления на дисплее системы отображается индикация "UPG" (Обновление).
   Дождитесь завершения обновления.

## Проверка версии ПО

- **1** Запустите приложение Philips HCWeSet на мобильном устройстве.
  - Убедитесь, что устройство подключено к сети.
- Перейдите на главную страницу приложения.
- 3 Нажмите ≡, чтобы перейти в меню параметров.
- **4** Выберите My Speakers (Подключенные AC).
  - → Появится список подключенных устройств,
- **5** Затем выберите About (Сведения).
  - Отобразится номер версии программного обеспечения и другая информация о системе.

# Обновление программного обеспечения через Интернет

- **1** Запустите приложение Philips HCWeSet на мобильном устройстве.
  - Убедитесь, что устройство подключено к сети.
- Перейдите на главную страницу приложения.
- 3 Нажмите ≡, чтобы перейти в меню параметров.
- **4** Выберите My Speakers (Подключенные AC).
  - → Появится список подключенных устройств.
- 5 Выберите название этого устройства, затем выберите Software Update (Обновление ПО) > Network (Сеть).
- 6 Для завершения обновления следуйте инструкциям на экране.
  - → Во время обновления на дисплее отображается сообщение "UPG XX" (обновление). Индикация "XX" показывает, на сколько процентов выполнено обновление.
  - По завершении обновления система автоматически выключится и включится снова.
  - → Если при обновлении произойдет ошибка, на дисплее отобразится сообщение "ERROR" (ошибка), продукт автоматически выключится и снова включится. Отобразится запрос на повторный запуск процесса обновления.

## Обновление ПО с помощью устройства USB



#### Внимание

 Не отключайте питание и не извлекайте запоминающее устройство USB во время обновления ПО, так как это может привести к повреждению системы.

## Что требуется

- Запоминающее устройство USB, отформатированное в файловой системе FAT16. FAT32 или NTFS.
- 1 Проверьте наличие последней версии на веб-сайте www.philips.com/support.
  - Найдите необходимую модель и нажмите ссылку "ПО и драйверы".
- Загрузите ПО на запоминающее устройство USB.
  - (1) Извлеките файл из архива, проверьте название папки (папка должна называться "UPG").
  - (2) Поместите файл "UPG" в корневой каталог.
- 4 Запустите приложение Philips HCWeSet на мобильном устройстве.
  - Убедитесь, что устройство подключено к сети.
- 5 Перейдите на главную страницу приложения.
- 6 Нажмите ≡, чтобы перейти в меню параметров.
- 7 Выберите My Speakers (Подключенные AC).
  - → Появится список подключенных устройств.

- 8 Выберите название этого устройства, затем выберите Software Update (Обновление ПО) > USB.
- **9** Для завершения обновления следуйте инструкциям на экране.
  - → Во время обновления на дисплее отображается сообщение "UPG XX" (обновление). Индикация "XX" показывает, на сколько процентов выполнено обновление.
  - → По завершении обновления система автоматически выключится и включится снова.
  - → Если при обновлении произойдет ошибка, на дисплее отобразится сообщение "ERROR" (ошибка), продукт автоматически выключится и снова включится. Отобразится запрос на повторный запуск процесса обновления.

## 8 Характеристики изделия



 Характеристики и дизайн могут быть изменены без предварительного уведомления.

#### **Усилитель**

- Общая выходная мощность: 192 Вт (среднеквадр.) (+/- 0,5 дБ, КНИ 10 %)
- Частотный отклик:
   20 Гц 20 кГц/±3 дБ
- Отношение сигнал/шум: > 65 дБ (CCIR) / (средневзвешенное)
- Входная чувствительность:
  - AUDIO IN: 500 MB
  - AUX: 1000 MB

## Аудио

- Цифровой аудиовход S/PDIF:
  - Коаксиальный: IEC 60958-3
  - Оптический: TOSLINK

#### **USB**

- Совместимость: высокоскоростной интерфейс USB (2.0)
- Поддержка класса: класс запоминающих устройств USB Mass Storage Class (MSC)
- Файловая система: FAT16, FAT32, NTFS
- Воспроизводимые аудиофайлы: .aac, .mka, .mp3, .wav, .m4a, .flac, .ogg, .ape, .dsf, .dff

#### **WIAN**

- Диапазон частот / выходная мощность:
  - 2412–2472 МГц (Европа) / ≤ 20 дБм
  - 2412—2462 МГц (США и Азия) /
     ≤ 20 дБм
  - 5180–5240 МГц (весь мир) /  $\leq$  14 дБм

- 5745–5825 МГц (США и Азия) /
   ≤ 14 дБм
- В Европе диапазон 5150–5350 МГц предполагает только использование внутри помещений.
- Поддержка стандартов беспроводных сетей: IEEE802.11 a/b/g/n
- Поддерживаемые каналы
  - **2,4 ГГц**: 1–13 (Европа) или 1–11 (США и Азия)
  - **5,X ГГц**: 36, 40, 44, 48 (весь мир) и 149, 153, 157, 161, 165 (США и Азия)

#### Bluetooth

- Профили Bluetooth: A2DP, AVRCP
- Версия Bluetooth: Bluetooth V4.1 с поддержкой технологии низкого энергопотребления
- Диапазон частот / выходная мощность: 2400–2483,5 МГц / ≤ 20 дБм
- Радиочастота NFC: 13,56 МГц

## Сеть беспроводной АС

- Диапазон частот: 5725–5875 МГц
- Выходная мощность: ≤ 14 дБм

## Основное устройство (левая и правая базовые АС)

- Питание: 110-240 В~, 50-60 Гц
- Энергопотребление: 70 Вт
- Энергопотребление в режиме ожидания
  - Энергопотребление в режиме ожидания ЕСО: ≤ 0,5 Вт
  - Энергопотребление в сетевом режиме ожидания: < 6 Вт
- Размеры (Ш x B x Г): 161 x 302 x 161 мм
- Вес: 2,4 кг (каждая)
- Встроенные АС
  - Левый/правый канал: 2 НЧ-динамика (76,2 мм/3", 8 Ом) + 2 ВЧ-динамика (25,4 мм/1", 8 Ом)

 Центральный канал: 2 широкополосных динамика (76,2 мм/3", 8 Ом)

## АС объемного звучания

- Сопротивление динамика: 8 Ом
- Излучатели АС: 2 x 63,5 мм (2,5") полный диапазон
- Размеры (Ш × В × Г): 161 × 111 × 161 мм
- Вес: 1,0 кг (каждая)

## Сабвуфер

- Питание: 110-240 В~, 50-60 Гц
- Потребляемая мощность: 30 Вт
- Энергопотребление в режиме ожидания: ≤ 0,5 Вт
- Сопротивление: 4 Ом
- Излучатели АС: 1 НЧ-динамик 165 мм (6,5")
- Размеры (Ш x B x Г): 222 x 441 x 222 мм
- Bec: 5,4 кг

## Элементы питания для пульта ДУ

2 x AAA-R03-1.5 B

## Управление энергопотреблением в режиме ожидания

- Если изделие не используется в течение 15 минут, оно автоматически переходит в режим ожидания или режим ожидания при подключении к сети.
- Чтобы отключить Bluetooth-соединение, нажмите и удерживайте кнопку Bluetooth на пульте ДУ.
- Чтобы установить Bluetooth-соединение, включите функцию Bluetooth на Bluetooth-устройстве или выполните Bluetooth-соединение с помощью NFCметки (при наличии).

## 9 Поиск и устранение неисправностей



## Предупреждение

 Риск поражения электрическим током. Запрещается снимать корпус устройства.

Для сохранения действия условий гарантии запрещается самостоятельно ремонтировать устройство.

При возникновении неполадок во время эксплуатации устройства проверьте следующие пункты, прежде чем обращаться в сервисную службу. Если проблему устранить не удалось, обратитесь в службу поддержки на веб-сайте www.philips.com/support.

## Основное устройство

## Кнопки устройства не работают.

 Отключите устройство от источника питания на несколько минут, затем подключите снова.

## Звук

## Отсутствует звук из АС устройства.

- Подключите аудиокабель к этой системе и телевизору или другим устройствам. Однако в следующих случаях отдельное аудиоподключение не требуется:
  - система и телевизор подключены через **HDMI ARC**;
  - устройство подключено к разъему **HDMI IN** данной системы.
- Убедитесь, что вы подключаете аудиовход этого устройства к аудиовыходу на телевизоре или на других устройствах.
- Восстановите заводские параметры системы, установленные по умолчанию.

- На пульте выберите соответствующий источник аудиовхода.
- Убедитесь, что на системе включен звук.

## На беспроводных AC объемного звучания нет звука.

- Убедитесь, что беспроводная АС объемного звучания включена. Нажмите Ф на беспроводной АС объемного звучания.
- Закрепите беспроводные АС объемного звучания на основном устройстве, чтобы зарядить аккумуляторы.
- Если вы хотите выполнить беспроводное подключение беспроводной АС объемного звучания к основному устройству, нажмите кнопку SOD на беспроводной АС объемного звучания.
- Если вы хотите использовать АС объемного звучания в качестве одиночной АС Bluetooth, подключите АС объемного звучания к Bluetoothустройству.

## Звук с основного устройства не слышен из сабвуфера и беспроводных АС объемного звучания.

- Выполните сопряжение сабвуфера и основного устройства вручную.
- Повторно установите беспроводные АС объемного звучания на основное устройство, чтобы выполнить сопряжение АС объемного звучания с основным устройством.

#### Звук искажен или присутствует эхо.

 При воспроизведении звука с телевизора через данную систему убедитесь, что звук на телевизоре отключен.

## Аудиопоток не синхронизован с видеорядом.

 Чтобы синхронизировать аудио- и видеопотоки, нажмите AUDIO SYNC +/-.

#### Bluetooth

## Устройству не удается подключиться к данной системе.

- Устройство не поддерживает совместимые профили, требуемые для работы с системой.
- Не включена функция Bluetooth на устройстве. Информацию об активации функции см. в руководстве пользователя устройства.
- Устройство подключено неправильно.
   Подключите устройство согласно инструкциям.
- К системе подключено другое Bluetooth-устройство. Отключите подключенное устройство, затем повторите попытку.

## Неудовлетворительное качество воспроизведения аудио с подключенного устройства Bluetooth.

 Прием сигналов Bluetooth низкого качества. Расположите устройство ближе к системе или устраните все препятствия между устройствами.

## Устройство Bluetooth, с которым установлено соединение, постоянно подключается и отключается.

- Прием сигналов Bluetooth низкого качества. Расположите устройство ближе к системе или устраните все препятствия между устройствами.
- Чтобы избежать помех, отключите функцию Wi-Fi на устройстве Bluetooth.
- В некоторых устройствах Bluetooth соединение Bluetooth отключается автоматически в целях экономии энергии. Это не свидетельствует о неисправности системы.

## **NFC**

## Устройству не удается подключиться к системе через NFC.

- Проверьте, поддерживает ли устройство функцию NFC.
- Проверьте, включена ли функция NFC на устройстве (подробную информацию см. в руководстве пользователя устройства).
- Для сопряжения коснитесь устройством NFC метки **NFC** на данной системе.

## Интернет-сервисы

## Не удается передать аудиофайлы из сервиса Chromecast built-in или Spotify Connect на данное изделие.

 Устройство не подключено к сети; выполните первоначальную настройку, если настройка не была завершена.

#### Не удается подключить устройство к сети.

- Убедитесь, что беспроводная сеть не испытывает помех от микроволновых печей, телефонов DECT или других устройств Wi-Fi, находящихся поблизости.
- Установите беспроводной маршрутизатор и данное изделие на расстоянии не более пяти метров друг от друга.
- Убедитесь, что это изделие и мобильное устройство подключены к одной сети.
- Восстановите заводские параметры системы, установленные по умолчанию.
- Убедитесь, что беспроводной маршрутизатор поддерживает mDNS.

## На дисплее устройства отображается сообщение об ошибке.

 При сбое пространственной калибровки на дисплее отображается одно из следующих сообщений об ошибке. Для получения подробной информации о повторной калибровке см. четвертую главу ("Пространственная калибровка").

- FAIL (сбой): на портативной АС не выбран режим SOD, она находится вне диапазона калибровки, или между основным устройством и левой и правой портативными АС находятся препятствия, блокирующие сигнал.
- BATT LOW (низкий уровень заряда): левая/правая портативная АС имеет низкий уровень заряда аккумулятора.
- ERROR (ошибка): левая и правая портативные АС не сняты с основного устройства.



Manufactured under license from Dolby Laboratories. Dolby, Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories.



For DTS patents, see http://patents.dts.com. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS Digital Surround is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved.

## HDMI\*

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Gibson Innovations Limited is under license. Other trademarks and trade names are those of their respective owners.

## **n**fc

The N Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.

## ₷ Chromecast built-in

Chromecast is a trademark of Google Inc.



The Spotify Software is subject to third party licenses found here: www.spotify.com/connect/third-party-licenses.

кассового и товарного чеков Место для прикрепления

# ГАРАНТИЙНЫЙ ТАЛОН

Российская Федерация, Республика Беларусь, Қазақстан Республикасы\*

Модель:	Заполнение ооязательно
Серийный номер:	Заполнение обязательно
Дата продажи:	Заполнение обязательно
продавец:	
Название торговой организации:	Заполнение обязательно
Телефон торговой организации:	Заполнение обязательно
Адрес и E-mail:	Заполнение желательно

ПРОДАВЦА TETATE

Изделие получил в исправном состоянии, в полной комплектности, с инструкцией по эксплуатации на русском языке. Со всеми техническими характеристиками, функциональными возможностями и правилами эксплуатации ознакомлен. Изделие осмотрено и проверено в моем присутствии, претензий к качеству и внешнему виду не имею. Всё изложенное в инструкции по эксплуатации и гарантийном галоне обязуюсь выполнять и гарантирую выполнение всеми пользователями изделия.

ФИО и подпись покупателя)

С условиями гарантии ознакомлен и согласен.

Гарантийный талон недействителен при его неправильном или неполном заполнении, без печати продавца и подписи покупателя. Кассовый и товарный чеки о покупке должны быть прикреплены к настоящему гарантийному талону. Внимание! Требуйте полного заполнения гарантийного талона продавцом!

## Уважаемый Потребитель!

# Благодарим Вас за покупку изделия под торговой маркой Philips

При покупке изделия убедительно просым проверить правильность заполнения гарантийного талона. Серийный номер и наименование модейи приобретенного Вами изделия должны быть идентичны записи в зрантийном талоне. Не допускается внесения в талон каких-либо изменений, исправлений. В случае неправильного или неполного заполнения гарантийного талона, а также если чек не был прикреплен к гарантийному талону при покупке Вами изделия – немедленно обратитесь к продавцу.

механических повреждений изделия, попадания вовнутрь посторонних предметов, жидкостей, насекомых и пр., в течение всего срока службы следите за сохранностью полной идентификационной информации с таринтирный талон, товарный и кассовый чеки, накладные, инструкцию пользователя и иные документы). Если в процессе эксплуатации Вы обнаружите, что параметры работы изделия отличаются от изложенных в При бережном и внимательном отношении к изделию и использовании его в соответствии с правилами эксплуатации оно будет надежно служить Вам долгие годы. В ходе эксплуатации изделия не допускайте изенный модели и серийного номера на изделии. Во избежание возможных недоразумений сохраняйте в течение всего срока службы документы, прилагаемые к изделию при его продаже (данный инструкции пользователя, обратитесь, пожалуйста, за консультацией в Информационный Центр.

Казакстан Республикасы, Алматы ж., Мұканов үй 315 литр А. Если купленное Вами изделие Вами изделие специальной установки и подключения, рекомендуем обратиться в организацию, специализирующуюся на Изготовитель: "Glisson Innovations Limited" (Гибсов Инновейшне Лимител), пятый этаж строение Филипс Электронике, 5 Сайне Парк Ист Авеню, Гонконт Сайне Парк, Шатин, Нью Территориз, Гонконт. Импортер на территорню Роски и Евразийского экономического союза (в случае импортируемой продукции): ООО «Гибсон Инновейшие Евразия», РФ, 12302 г. Москва, ул. Сергея Макеева, д. 1.3. Импортер на территорню приобретенного на территории Российской Федерации. Юридическое лицо принимающее претензии в отношении товара, приобретенного на территории Республики Бедарусь. «БРСЦ-АСПИРС» Минск, 220114, проспект Неявисимости 123, корпус 3. Юридическое липо принимающее претензии в отношении товара, приобретенного на территории Республики Казахстан: ТОО «Smart Master Service (Смарт Мастер Сервис)» ул. Муканова, д.315 литер А, Алматы, Казахстан. Казакстан Республикасының аумағында сатып алынған тауарлар үшін талап арыз қабылдау Занды тұлға: ТОО «Smart Master Service (Смарт Мастер Сервис)» оказании такого рода услуг. Лицо (компания), осуществившее Вам установку, несет ответственность за правильность проведенной работы. Помните, квалифицированная установка и подключение изделия России и Евразийского экономического союза принимает претензии потребителей в случаях, предусмотренных Законом РФ «О защите прав потребителей» 07.02.1992 N 2300-1», в отношении товара, существенны для его дальней шего правильного функционирования и гарантийного обслуживания.

### Сроки и условия гарантии:

Наименование изделия	Срок гарантии**	Срок службы**
Домашние кинотеатры.	1 год	5 лет
Стаци онарные аудио/видеосистемы, проитрыватели, переносные и автомагнитолы, автомобильные медиацентры, усилители.	1 год	3 года
Портативные устройства, носимые проигрыватели, компьютерная периферия, автомобильная акустика, индивидуальные приемопередающие	1 год	1 год

»\*исчиляется со дня передачи товара потребитело или с даты изготовления, если дату передачи определить невозможно. Дату изготвяления изделия Вы можете определить по серийному номеру (кскеТТНКкскск, где ГГ – год, НН номер недели, х – любой символ). Пример: Л.021328123456 – дата изготовления 28 неделя 2013г. В случае затруднений при определении даты изготовления обратитесь. пожалуйста, в Информационный Центр.

связанных с осуществлением предпринимательской деятельности. По окончании срока службы обратитесь в авторизованный сервисный центр для проведения профилактических работ и получения рекомендаций по Настоящая гарантия распространяется только на изделия, имеющие полную идентификационную информацию, приобретенные и используемые исключительно для личных, семейных, домашних и иных нужд, не дальнейшей эксплуатации изделия. Гарантийное обслуживание не распространяется на изделия, недостатки которых возникли вследствие:

- нарушения Потребителем правил эксплуатации, хранения или транспортировки изделия.
- отсутствия или ненадлежащего обслуживания изделия согласно рекомендаций инструкции по эксплуатации:
- использования неоритинальных аксессуаров и/или расходных материалов, предусмотренных инструкцией по эксплуатации (если их использование привело к нарушению работоспособности изделия); 4. действий третьих лиц:
  - ремонта неуполномоченными лицами, внесения несанкционированных изготовителем конструктивных или схемотехнических изменений и изменений программного обеспечения:
- подключения изделия к другому изделию/говару в не обесточенном состоянии (любые соединения должны осуществляться только после отключения всек соединяемых изделий/говаров от питающей сети). • отклонения от Государственных Технических Стандартов (ГОСТов) и норм питающих, телекоммуникационных и кабельных сетей; неправильной установки и/или подключения изделия;
  - действия непреодолимой силы (стихия, пожар, молния и т.п.).

Сервисные центры в РФ: Москва, 1 й Варшавский пр-д, 1а, стр-3; С. Пегербург, Ланское ш., 65. Дополнительную информацию о других ближайших к Вам сервисных центрах, времени их работы, а аккумуляторы, защитные экраны, иные детали с ограниченным сроком эксплуатации.

арантия не распространяется также на расходные материалы и аксессуары включая, но не ограничиваясь следующимг. наушникн, чехлы, соединительные кабели, изделия из стекла, сменные лампы, батареи и

также информацию о продукции. Вы можете получить в Информационном центре по телефонам:

Страна	Госсия	Della pych	Nasaxcian
	8 800 200 0880	8 820 0011 0068	8 800 080 0123
Телефон	(бесплатный звонок в РФ, в т.ч. с мобильных телефонов),	(бесплатный звонок на территории РБ,	(бесплатный звонок со стационарных телефонов
	8 (495) 961-1111	в т.ч. с мобильных телефонов)	на территории Казахстана)
Веб-сайт	www.philips.ru	www.philips.by	www.philips.kz

Производитель оставляет за собой право на внесение изменений в конструкцию, в нешний вид, комплектацию, технические характеристики изделия без предварительного уведомления. Актуальная информация доступна не асайте производителя. Өндіруші құрылымын, сырткы пішініне, жынтығыны, құралдың техникалық сипаттамаларына еш ескертусіз өзгерістер енгізуге өз құқыяғын қалдырады. Өзекті ақпарат өн діруші сайтында қол жетімді

RU BY NOV

«Кеплоїк талонның мәтінінің қазақ тілінде алу үшін, Филипс ақпараттық орталығына немесе ммм.philips.kz - веб-сайты на хабарласыңыз.

### License Texts and Acknowledgements for any open source software used in this Philips product

Instructions to obtain source code for this software can be found in the user manual, or in the supplied safety leaflet (if available).

### 1. U-boot

# (C) Copyright 2000 - 2009

# Wolfgang Denk, DENX Software Engineering, wd@denx.de.

# See file CREDITS for list of people who contributed to this # project.

#

# 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., 59 Temple Place, Suite 330, Boston, # MA 02111-1307 USA

A copy of the GPL is included below at item 2.

### 2. Linux kernel

NOTE! This copyright does \*not\* cover user programs that use kernel services by normal system calls - this is merely considered normal use of the kernel, and does \*not\* fall under the heading of "derived work".

Also note that the GPL below is copyrighted by the Free Software Foundation, but the instance of code that it refers to (the linux kernel) is copyrighted by me and others who actually wrote it. Also note that the only valid version of the GPL as far as the kernel is

concerned is \_this\_ particular version of the license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated.

Linus Torvalds

### GNU GENERAL PUBLIC LICENSE Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 675 Mass Ave, Cambridge, MA 02139, 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: (1) 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

- 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 machinereadable 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.

- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.

- 8. 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.
- 9. 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.
- 10. 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**

- 11. BECAUSETHE 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.
- 12. 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 OFTERMS AND CONDITIONS

Appendix: 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) 19yy < 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., 675 Mass Ave, Cambridge, MA 02139, 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) 19yy 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 Harker

<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.

3. Sysvinit 2.88dsf, module-init-tools 3.12, util-linux-ng 2.18, procps (ps, top) 3.2.8, psmisc 22.13, coreutils 6.9, gawk 3.1.5, grep 2.5.1a, findutils 4.2.31, bash 3.2.51, tar 1.17, sed 4.1.5, gzip 1.3.12, inetutils 1.4.2, UBIFS, mtd-utils, glibc, gcc, gconv 1.0.0, dhcpv6 dibbler, gdb 6.6, iproute2 2.6.38, ntpdate 4.2.6, tcpdump 4.3.0, e2fsprogs 1.41.14, freetype, cpio, goahead, iputils, mongoose, nettools, udhcp, wifi-tools

All OSS modules mentioned in the section heading above are subject to the GPL, a copy of which is included in item 2.

### 4. Libnl, nopoll, nss-mdns, xz

GNU LESSER GENERAL PUBLIC LICENSE Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 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: (1) 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

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.

 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.

- 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 wrota 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.

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

in such an object nie uses only humerical 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:

 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 modified 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 (1) 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/donon 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. BECAUSETHE 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 OFTERMS 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., 59 Temple Place, Suite 330, Boston, MA 02111-1307 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!

### OpenSSL.

Open SSL is an Open Source toolkit implementing the Secure Sockets Layer (SSL v2/v3) and Transport Layer Security (TLS v1) protocols as well as a full-strength general purpose cryptography library.

See http://www.openssl.org/, and in particular http://www.openssl.org/source/license.html.

The license conditions are copied below.

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  $\ensuremath{\mathsf{BSD}}\xspace\text{-style}$ 

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" nor may "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 BYTHE 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 SHALLTHE
- \* 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 SSLeay 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
- \*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,
- \* Ihash, 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
- \* 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
- \* 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 ERICYOUNG "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.]

### 6. Zlib general purpose compression library

See http://www.zlib.net/, and in particular http://www.zlib.net/ zlib\_license.html.

/\* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.3, July 18th, 2005

Copyright (C) 1995-2005 Jean-Joup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

- The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
- Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
- This notice may not be removed or altered from any source distribution.

Jean-loup Gailly jloup@gzip.org

Mark Adler madler@alumni.caltech.edu

### 7. Freetype, a Free, High-Quality, and Portable Font Engine

The software is based in part of the work of the FreeType Team. See http://freetype.sourceforge.net/, and in particular http://freetype. sourceforge.net/FTL.TXT.

Portions of the relevant license conditions are copied below.

The FreeType Project LICENSE 2006-Jan-27

Copyright 1996-2002, 2006 by David Turner, Robert Wilhelm, and Werner Lemberg

No Warranty

THE FREETYPE PROIECT IS PROVIDED 'AS IS'WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED. INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES

### CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

### 2. Redistribution

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

o Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

### 8. Expat

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and Clark Cooper

Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers. 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.

### 9. libpng

This copy of the libpng notices is provided for your convenience. In case of any discrepancy between this copy and the notices in the file png.h that is included in the libpng distribution, the latter shall prevail. COPYRIGHT NOTICE, DISCLAIMER, and LICENSE:

If you modify libpng you may insert additional notices immediately following this sentence.

This code is released under the libpng license.

libong versions 1.2.6. August 15, 2004, through 1,2.35, February 14. 2009, are Copyright (c) 2004, 2006-2009 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-1.2.5 with the following individual added to the list of Contributing Authors

Cosmin Truta

libpng versions 1.0.7, July 1, 2000, through 1.2.5 - October 3, 2002, are Copyright (c) 2000-2002 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors Simon-Pierre Cadieux

Eric S. Raymond

Gilles Vollant

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998, 1999 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors: Tom Lane

Glenn Randers-Pehrson

Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996, 1997 Andreas Dilger

Distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler

Kevin Bracev

Sam Bushell

Magnus Holmgren

Greg Roelofs

Tom Tanner

libpng versions 0.5, May 1995, through 0.88, January 1996, are Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger

Dave Martindale

Guy Eric Schalnat Paul Schmidt

Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

- 1. The origin of this source code must not be misrepresented.
- 2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.
- 3. This Copyright notice may not be removed or altered from any source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

A "png\_get\_copyright" function is available, for convenient use in "about" boxes and the like:

printf("%s",png\_get\_copyright(NULL));

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88×31) and "pngnow.png" (98×31). Libpng is OSI Certified Open Source Software, OSI Certified Open Source is a certification mark of the Open Source Initiative.

Glenn Randers-Pehrson glennrp at users.sourceforge.net February 14, 2009

### 10. SQLite

All of the deliverable code in SQLite has been dedicated to the HYPERLINK "http://en.wikipedia.org/wiki/Public\_Domain"public domain by the authors. All code authors, and representatives of the companies they work for, have signed affidavits dedicating their contributions to the public domain and originals of those signed affidavits are stored in a firesafe at the main offices of HYPERLINK "http://www.hwaci.com" Hwaci. Anyone is free to copy, modify, publish, use, compile, sell, or distribute the original SQLite code, either in source code form or as a compiled binary, for any purpose, commercial or non-commercial, and by any means.

The previous paragraph applies to the deliverable code in SQLite those parts of the SQLite library that you actually bundle and ship with a larger application. Portions of the documentation and some code used as part of the build process might fall under other licenses. The details here are unclear. We do not worry about the licensing of the documentation and build code so much because none of these things are part of the core deliverable SQLite library.

All of the deliverable code in SQLite has been written from scratch. No code has been taken from other projects or from the open internet. Every line of code can be traced back to its original author, and all of those authors have public domain dedications on file. So the SQLite code base is clean and is uncontaminated with licensed code from other projects.

### 11. ncurses 5.7

- -- Copyright (c) 1998-2000,2006 Free Software Foundation, Inc.
- -- 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, distribute with modifications, 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 ABOVE 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.
- Except as contained in this notice, the name(s) of the above copyright holders shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization.

### 12. glibc (other licenses) v2.19

This file contains the copying permission notices for various files in the GNU C Library distribution that have copyright owners other than the Free Software Foundation. These notices all require that a copy of the notice be included in the accompanying documentation and be distributed with binary distributions of the code, so be sure to include this file along with any binary distributions derived from the

### GNU C Library.

All code incorporated from 4.4 BSD is distributed under the following license:

Copyright (C) 1991 Regents of the University of California. 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:
- 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. [This condition was removed.]
- Neither the name of the University 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 REGENTS 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 REGENTS 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 OFTHIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The DNS resolver code, taken from BIND 4.9.5, is copyrighted by UC Berkeley, by Digital Equipment Corporation and by Internet Software Consortium. The DEC portions are under the following license: Portions Copyright (C) 1993 by Digital Equipment Corporation. Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED ``AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, 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.

The ISC portions are under the following license:

Portions Copyright (c) 1996-1999 by Internet Software Consortium. Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies. THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO

EVENT SHALL INTERNET SOFTWARE CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, 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

The Sun RPC support (from rpcsrc-4.0) is covered by the following license:

Copyright (c) 2010, Oracle America, Inc.

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.
- \* Neither the name of the "Oracle America, Inc." 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 HOLDER 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 OFTHIS SOFTWARE, EVEN IF ADVISED OFTHE POSSIBILITY OF SUCH DAMAGE.

The following CMU license covers some of the support code for Mach, derived from Mach 3.0:

Mach Operating System

Copyright (C) 1991,1990,1989 Carnegie Mellon University All Rights Reserved.

Permission to use, copy, modify and distribute this software and its documentation is hereby granted, provided that both the copyright notice and this permission notice appear in all copies of the software, derivative works or modified versions, and any portions thereof, and that both notices appear in supporting documentation.

CARNEGIE MELLON ALLOWS FREE USE OF THIS SOFTWARE IN ITS "AS IS" CONDITION. CARNEGIE MELLON DISCLAIMS ANY LIABILITY OF ANY KIND FOR ANY DAMAGES WHATSOEVER RESULTING FROMTHE USE OF THIS SOFTWARE.

Carnegie Mellon requests users of this software to return to

Software Distribution Coordinator

School of Computer Science

Carnegie Mellon University

Pittsburgh PA 15213-3890

or Software.Distribution@CS.CMU.EDU any improvements or extensions that they make and grant Carnegie Mellon the rights to redistribute these changes.

The file if\_ppp.h is under the following CMU license:

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
- 3. Neither the name of the University 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 CARNEGIE MELLON UNIVERSITY 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 SHALLTHE UNIVERSITY 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 following license covers the files from Intel's "Highly Optimized Mathematical Functions for Itanium" collection:

Intel License Agreement

Copyright (c) 2000, Intel Corporation

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 Intel Corporation may not 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 INTEL OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT 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 files inet/getnameinfo.c and sysdeps/posix/getaddrinfo.c are copyright (C) by Craig Metz and are distributed under the following license:

/\* The Inner Net License, Version 2.00

The author(s) grant permission for redistribution and use in source and binary forms, with or without modification, of the software and documentation provided that the following conditions are met:

- 0. If you receive a version of the software that is specifically labelled as not being for redistribution (check the version message and/or README), you are not permitted to redistribute that version of the software in any way or form.
- All terms of the all other applicable copyrights and licenses must be followed.
- Redistributions of source code must retain the authors' copyright notice(s), this list of conditions, and the following disclaimer:
- Redistributions in binary form must reproduce the authors' copyright notice(s), this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.
- 4. [The copyright holder has authorized the removal of this clause.]
- Neither the name(s) of the author(s) 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 ITS AUTHORS AND CONTRIBUTORS "AS IS" AND ANYEXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIEDWARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AREDISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANYDIRECT, 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 ONANYTHEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISS) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

If these license terms cause you a real problem, contact the author. \*/
The file sunrpc/des\_impl.c is copyright Eric Young:

Copyright (C) 1992 Eric Young

Collected from libdes and modified for SECURE RPC by Martin Kuck 1994  $\,$ 

This file is distributed under the terms of the GNU Lesser General Public License, version 2.1 or later - see the file COPYING.LIB for details

If you did not receive a copy of the license with this program, please see <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>> to obtain a copy.

The libidn code is copyright Simon Josefsson, with portions copyright The Internet Society, Tom Tromey and Red Hat, Inc.:

Copyright (C) 2002, 2003, 2004, 2011 Simon Josefsson This file is part of GNU Libidn.

GNU Libidn 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.

GNU Libidn 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 GNU Libidn; if not, see <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>.

The following notice applies to portions of libidn/nfkc.c:
This file contains functions from GLIB, including gutf8.c and gunidecomp.c, all licensed under LGPL and copyright hold by:
Copyright (C) 1999, 2000 Tom Tromey

Copyright 2000 Red Hat, Inc.

The following applies to portions of libidn/punycode.c and libidn/punycode.h:

This file is derived from RFC 3492bis written by Adam M. Costello. Disclaimer and license: Regarding this entire document or any portion of it (including the pseudocode and C code), the author makes no guarantees and is not responsible for any damage resulting from its use. The author grants irrevocable permission to anyone to use, modify, and distribute it in any way that does not diminish the rights of anyone else to use, modify, and distribute it, provided that redistributed derivative works do not contain misleading author or version information. Derivative works need not be licensed under similar terms.

Copyright (C) The Internet Society (2003). All Rights Reserved. This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this paragraph are included on all such copies and derivative works. However, this document itself may not be modified in any way, such as by removing the copyright notice or references to the Internet Society or other Internet organizations, except as needed for the purpose of developing Internet standards in which case the procedures for copyrights defined in the Internet Standards process must be followed, or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by the Internet Society or its successors or assigns. This document and the information contained herein is provided on

an "AS IS" basis and THE INTERNET SOCIETY AND THE INTERNET ENGINEERING TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

The file inet/rcmd.c is under a UCB copyright and the following: Copyright (C) 1998 WIDE 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:

- 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.
- Neither the name of the project 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 PROJECT 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 PROJECT OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIDENTAL, 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 file posix/runtests.c is copyright Tom Lord: Copyright 1995 by Tom Lord

### 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 the copyright holder not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

Tom Lord DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL TOM LORD 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 TORTHOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The posix/rxspencer tests are copyright Henry Spencer:

Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved. This software is not subject to any license of the American Telephone and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on any computer system, and to alter it and redistribute it, subject to the following restrictions:

- 1. The author is not responsible for the consequences of use of this software, no matter how awful, even if they arise from flaws in it.
- 2.The origin of this software must not be misrepresented, either by explicit claim or by omission. Since few users ever read sources, credits must appear in the documentation.
- 3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software. Since few users ever read sources, credits must appear in the documentation.
- 4. This notice may not be removed or altered.

The file posix/PCRE.tests is copyright University of Cambridge: Copyright (c) 1997-2003 University of Cambridge

Permission is granted to anyone to use this software for any purpose on any computer system, and to redistribute it freely, subject to the following restrictions:

- This software 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.
- 2. The origin of this software must not be misrepresented, either by explicit claim or by omission. In practice, this means that if you use PCRE in software that you distribute to others, commercially or otherwise, you must put a sentence like this Regular expression support is provided by the PCRE library package, which is open source software, written by Philip Hazel, and copyright by the University of Cambridge, England.

somewhere reasonably visible in your documentation and in any relevant files or online help data or similar. A reference to the ftp site for the source, that is, to

ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/ should also be given in the documentation. However, this condition is not intended to apply to whole chains of software. If package A includes PCRE, it must acknowledge it, but if package B is software

- that includes package A, the condition is not imposed on package B (unless it uses PCRE independently).
- Altered versions must be plainly marked as such, and must not be misrepresented as being the original software.
- 4. If PCRE is embedded in any software that is released under the GNU General Purpose Licence (GPL), or Lesser General Purpose Licence (LGPL), then the terms of that licence shall supersede any condition above with which it is incompatible.

Files from Sun fdlibm are copyright Sun Microsystems, Inc.: Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved. Developed at SunPro, a Sun Microsystems, Inc. business. Permission to use, copy, modify, and distribute this software is freely granted, provided that this notice is preserved.

Part of stdio-common/tst-printf.c is copyright C E Chew: (C) Copyright C E Chew

Feel free to copy, use and distribute this software provided:

- 1. you do not pretend that you wrote it
- 2. you leave this copyright notice intact.

Various long double libm functions are copyright Stephen L. Moshier: Copyright 2001 by Stephen L. Moshier <moshier@na-net.ornl.gov> 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, see <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>. \*/

### 13. gcc libgcc and gcc libstdc++

GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <a href="https://fsf.org/">http://fsf.org/</a>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

### Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works,

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. 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 them 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 prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it responsibilities to respect the freedom of others. For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. 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.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary, To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

### TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License. "Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

 $\mbox{\sc A}$  "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (fir any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work

### 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.
No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey 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; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty, and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate. 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling, In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

### 7 Additional Terms

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

### 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice. Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

### 11. Patents

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone

to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If 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 convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU 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 that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version

or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version. 15. Disclaimer of Warranty.

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.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS 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. 17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OFTERMS 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 state 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 3 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, see <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>.

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>>.

The GNU 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 Lesser General Public License instead of this License, But first, please read <a href="http://www.gnu.org/philosophy/why-not-lgpl.html">http://www.gnu.org/philosophy/why-not-lgpl.html</a>>.

### GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009 Copyright (C) 2009 Free Software Foundation, Inc. <a href="http://fsf.org/">http://fsf.org/</a> Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC. "Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process

can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

### 14. ntpdate 4.2.6

The following copyright notice applies to all files collectively called the Network Time Protocol Version 4 Distribution. Unless specifically declared otherwise in an individual file, this notice applies as if the text was explicitly included in the file.

\* Copyright (c) University of Delaware 1992-2011

\* Permission to use, copy, modify, and distribute this software and \*
its documentation for any purpose with or without fee is hereby \*

\* granted, provided that the above copyright notice appears in all \* copies and that both the copyright notice and this permission

\* notice appear in supporting documentation, and that the name \* University of Delaware not be used in advertising or publicity

\* pertaining to distribution of the software without specific,

\* written prior permission.The University of Delaware makes no

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* representations about the suitability this software for any

\* purpose. It is provided "as is" without express or implied \* warranty.

### 15. libtom

LibTomCrypt is public domain. As should all quality software be. -- Tom St Denis

LibTomMath is hereby released into the Public Domain. -- Tom St Denis

### 16. c-ares

1%

- \* Copyright 1998 by the Massachusetts Institute of Technology.
- \* Copyright (C) 2007-2013 by Daniel Stenberg 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 M.I.T. not be used in
- \* advertising or publicity pertaining to distribution of the software
- \* without specific, written prior permission. M.I.T. makes no
- \* representations about the suitability of this software for any
- \* purpose. It is provided "as is" without express or implied warranty. \*/

### 17. cJSON

Copyright (c) 2009 Dave Gamble

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.

### 18. cURL

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2013, Daniel Stenberg, <a href="mailto:daniel@haxx.se">daniel@haxx.se</a>. All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies. 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 OF THIRD PARTY RIGHTS. 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, ARSING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder:

### 19. dhcpd

- /\* The dhcpd-pools has BSD 2-clause license which also known as "Simplified BSD License" or "FreeBSD License". Copyright 2006-Sami Kerola. 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.
- \*THIS SOFTWARE IS PROVIDED BY THE AUTHOR 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 AUTHOR AND CONTRIBUTORS 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 ANYTHEORY 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 views and conclusions contained in the software and documentation are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of Sami Kerola.

\*/

### 20. goahead

The Software contains third party software under the agreements that follow.

EST License

The optional EST SSL stack includes code from TropicSSL.

TropicSSL - [BSD License] (http://opensource.org/licenses/BSD-2-Clause

RSA MD5 License

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing this software or this function. License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing the derived work. RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind. These notices must be retained in any copies of any part of this documentation and/or software.

### 21. Mongoose

Copyright (c) 2004-2013 Sergey Lyubka <valenok@gmail.com> Copyright (c) 2013-2015 Cesanta Software Limited

All rights reserved

This code is dual-licensed: you can redistribute it and/or modify it under the terms of the GNU General Public License version 2 as published by the Free Software Foundation. For the terms of this license, see <a href="http://www.gnu.org/licenses">http://www.gnu.org/licenses</a>.

You are free to use this code under the terms of the GNU General Public License, 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.

Alternatively, you can license this code under a commercial license, as set out in <a href="http://cesanta.com/">http://cesanta.com/</a>.

### 22. wpa\_supplicant and hostapd

Copyright (c) 2002-2012, Jouni Malinen  $\le$  0.001, and contributors All Rights Reserved.

These programs are licensed under the BSD license (the one with advertisement clause removed).

If you are submitting changes to the project, please see CONTRIBUTIONS file for more instructions.

This package may include either wpa\_supplicant, hostapd, or both. See README file respective subdirectories (wpa\_supplicant/README or hostapd/README) for more details.

Source code files were moved around in v0.6.x releases and compared to earlier releases, the programs are now built by first going to a subdirectory (wpa\_supplicant or hostapd) and creating build configuration (.config) and running 'make' there (for Linux/BSD/cygwin builds).

License

-----

This software may be distributed, used, and modified under the terms of BSD license:

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.
- Neither the name(s) of the above-listed copyright holder(s) nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written nermission.

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, 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.

### 23. libxml2

Copyright (C) 1998-2003 Daniel Veillard. All Rights Reserved. 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 DANIEL VEILLARD 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.

Except as contained in this notice, the name of Daniel Veillard shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from him.

### 24.xerces-c

Apache License Version 2.0, January 2004

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. 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.
- 3. 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.
- 4. 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:
  - 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.

- 5. 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.
- 7. 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.
- 8. 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.
- 9. 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 OFTERMS 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.

OSS text\_MT8507\_V2.0\_2k15



Specifications are subject to change without notice
Copyright © 2015 Gibson Innovations Limited. Revised Edition © 2017
This product has been manufactured by, and is sold under the responsibility of Gibson Innovations Ltd., and Gibson Innovations Ltd. is the warrantor in relation to this product. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. and are used under license.

