

SAMSUNG TECHWIN

DECODIFICADOR DE VÍDEO EM REDE

Manual do usuário

SPD-400



Decodificador de vídeo em rede

Manual do usuário

Direitos autorais

©2013 Samsung Techwin Co., Ltd. Todos os direitos reservados.

Marca comercial

 **SAMSUNG TECHWIN** é o logotipo registrado da Samsung Techwin Co., Ltd.

O nome deste produto é a marca comercial registrada da Samsung Techwin Co., Ltd.

As outras marcas comerciais mencionadas neste manual são marcas comerciais registradas de suas respectivas empresas.

Restrição

A Samsung Techwin Co., Ltd deve reservar o direito autoral deste documento. Sob nenhuma circunstância, este documento deverá ser reproduzido, distribuído ou alterado, parcialmente ou em sua totalidade, sem a autorização formal da Samsung Techwin.

Renúncia

A Samsung Techwin esforça-se ao máximo para verificar a integridade e exatidão do conteúdo deste documento, mas nenhuma garantia formal deve ser fornecida. O uso deste documento e dos resultados subsequentes deve ser inteiramente responsabilidade do usuário. A Samsung Techwin reserva-se o direito de alterar o conteúdo deste documento sem aviso prévio.

- ❖ Design e especificações estão sujeitos a alterações sem aviso prévio.
- ❖ A senha padrão pode ser exposta a uma ameaça de hackers, portanto é recomendado alterá-la após a instalação do produto.
Observe que a segurança e outras questões relacionadas causadas por uma senha inalterada devem ser de responsabilidade do usuário.

INSTRUÇÕES IMPORTANTES DE SEGURANÇA

1. Leia estas instruções.
2. Guarde estas instruções.
3. Preste atenção a todos os avisos.
4. Siga todas as instruções.
5. Não utilize este leitor próximo à água.
6. Limpe apenas com um pano seco.
7. Não bloqueie as aberturas de ventilação. Instale de acordo com as instruções do fabricante.
8. Não o instale perto de fontes de calor, como radiadores, sistemas de aquecimento ou outros aparelhos que produzam calor, (incluindo amplificadores).
9. O plugue polarizado ou de aterramento desempenha uma importante função de segurança. Um plugue polarizado contém duas lâminas com uma mais larga do que a outra. Um plugue do tipo-terra contém duas lâminas e um terceiro pino de aterramento. A lâmina larga ou o terceiro pino são fornecidos para sua segurança. Se o plugue fornecido não encaixar na tomada, chame um eletricitista para trocar a tomada inadequada.
10. O cabo de alimentação deve ser posicionado de maneira que não seja deformado nem comprimido, especialmente nos plugues, em tomadas elétricas e nos pontos de saída do leitor.
11. Utilize apenas conexões / acessórios especificados pelo fabricante.
12. Utilize apenas carrinhos, bases, tripés, suportes ou mesas especificados pelo fabricante ou vendidos com o leitor. Ao utilizar um carrinho, tenha cuidado ao deslocá-lo com o leitor, para evitar ferimentos caso tombe.
13. Desligue este leitor da tomada durante tempestades com raios ou quando não for utilizá-lo por um longo período.
14. Todos os serviços de manutenção devem ser executados por técnicos qualificados. A manutenção será necessária quando o leitor for danificado de alguma forma, como danos ao cabo de alimentação ou plugue, derramamento de líquidos ou queda de objetos sobre o leitor, exposição à chuva ou umidade, mau funcionamento ou queda.



AVISO

PARA REDUZIR O RISCO DE INCÊNDIO OU CHOQUE ELÉTRICO, NÃO EXPONHA ESTE PRODUTO À CHUVA OU UMIDADE.

NÃO INSIRA OBJETOS METÁLICOS PELAS GRADES DE VENTILAÇÃO OU POR OUTROS ORIFÍCIOS NO EQUIPAMENTO.

O aparelho não deve ser exposto a goteiras ou respingos e não deve servir de base para recipientes com líquido, como vasos.

CUIDADO

	CUIDADO RISCO DE CHOQUE ELÉTRICO NÃO ABRA	
CUIDADO : PARA REDUZIR O RISCO DE CHOQUE ELÉTRICO, NÃO REMOVA A TAMPA (OU PARTE TRASEIRA). NÃO EXISTEM PEÇAS INTERNAS QUE POSSAM SER REPARADAS PELO USUÁRIO. OS SERVIÇOS DE MANUTENÇÃO DEVEM SER EXECUTADOS POR TÉCNICOS QUALIFICADOS.		

EXPLICAÇÃO DOS SÍMBOLOS GRÁFICOS



O raio com uma seta na ponta dentro de um triângulo equilátero destina-se a alertar o usuário sobre a presença de "tensão perigosa" dentro da caixa do produto, cuja grandeza talvez seja suficiente para constituir risco de choque elétrico nas pessoas.



O ponto de exclamação dentro de um triângulo equilátero tem o objetivo de alertar o usuário sobre a presença de importantes instruções de operação e manutenção (serviço) na literatura que acompanha o produto.

Construção de Classe I

Um aparelho com construção de CLASSE I deve ser conectado a uma tomada elétrica com uma conexão de terra para proteção.

Bateria

As baterias (a unidade da bateria ou baterias instaladas) não devem ser expostas a calor excessivo, como luz do sol, fogo ou situações semelhantes.

CUIDADO

Risco de explosão se a bateria for substituída por um tipo incorreto de bateria. Descarte as baterias usadas de acordo com as instruções.

Estas instruções de manutenção devem ser praticadas apenas pela equipe técnica qualificada.

Para reduzir o risco de choque elétrico, não execute qualquer outra manutenção que não seja a contida nas instruções de operação, a menos que você seja qualificado para executá-la.

Use a energia de entrada apenas com uma câmera e outros dispositivos não devem estar conectados.

O ITE deve ser conectado apenas para redes PoE sem roteamento para a planta exterior.

visão geral

Leia as seguintes precauções recomendadas de segurança com atenção.

- Não coloque este aparelho em uma superfície irregular.
- Não o instale em uma superfície onde ficará exposto à luz direta do sol, perto de equipamentos que emitem calor ou áreas extremamente frias.
- Não coloque este aparelho próximo de materiais condutores.
- Não tente reparar pessoalmente este aparelho.
- Não coloque um copo de água sobre o produto.
- Não o instale perto de fontes magnéticas.
- Não bloqueie as aberturas de ventilação.
- Não coloque objetos pesados sobre o produto.

O Manual do Usuário é um guia contendo informações sobre como usar o produto.

O significado dos símbolos no manual é o seguinte:

- Referência : caso existam informações que ajudam a usar o produto
- Nota : caso exista qualquer possibilidade de ocorrerem danos ao produto e ao ser humano causados pelo não cumprimento das instruções
- ✕ Leia este manual quanto aos itens de segurança antes de usar o produto e mantenha-o em local seguro.

VISÃO GERAL

3

- 3 Instruções Importantes de Segurança
- 9 Recursos do produto
- 9 Especificações de PC recomendadas
- 10 O que está incluso
- 11 Visão geral

INSTALAÇÃO E CONEXÃO

14

- 14 Conectando a outro dispositivo

CONEXÃO DE REDE E CONFIGURAÇÃO

19

- 19 Configurando o decodificador de vídeo em rede em ambientes de LAN
- 20 Conectando o decodificador de vídeo em rede diretamente ao modem DSL/ Cabo baseado em DHCP
- 21 Conectando o decodificador de vídeo em rede e roteador de banda larga que está conectado ao cabo do modem
- 22 Botões usados no Instalador IP
- 23 Configuração de IP estático
- 27 Configuração de IP dinâmico
- 28 Conectando ao dispositivo de rede de um PC local compartilhado

VISUALIZADOR NA WEB

29

- 29 Acessando o Decodificador de vídeo em rede
- 30 Logon

TELA DE CONFIGURAÇÃO

31

- 31 Configuração
- 31 Configuração de áudio e vídeo
- 39 Configuração da rede
- 41 Configuração de evento
- 43 Configuração do sistema

APÊNDICE

48

- 48 Especificações
- 50 Visão geral do produto
- 51 Solução de problemas
- 52 Open Source Announcement
- 53 License
- 56 GPL/LGPL Software License

RECURSOS DO PRODUTO

- **Oferece suporte a decodificação em vários formatos**

O decodificador de vídeo em rede emprega o decodificador de vários formatos H.264/MPEG-4/MJPEG para decodificar e exibir até 4 streams de vídeos transferidos pela rede.

- **Oferece suporte a exibição de vídeo Full-HD (alta definição total)**

A resolução de saída máxima suportada é de 1920x1080 e oferece portas de saída HDMI, VGA e CVBS (BNC) para exibição.

- **Monitoramento por alarme**

Quando ocorre um evento em uma câmera ou no decodificador de vídeo em rede, a exibição de monitoramento é alterada para o vídeo correspondente de acordo com as configurações.

ESPECIFICAÇÕES DE PC RECOMENDADAS

- CPU : Intel(R) Core(TM)2 2.00 GHz ou superior
- Sistema operacional: Windows XP, VISTA, 7
Mac OS
- Resolução : 1280X1024 pixels ou superior
- RAM: 1 GB ou superior
- Navegador da Web: Internet Explorer 7.0 ou 8.0, Firefox, Chrome, Safari
- Memória de vídeo: 128MB ou superior

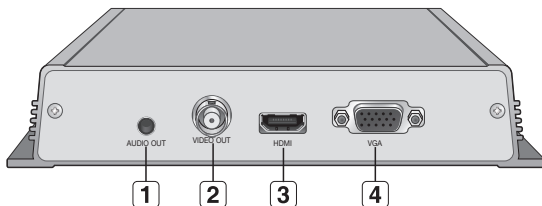
O QUE ESTÁ INCLUSO

Verifique se o seu decodificador de vídeo em rede e os acessórios estão todos incluídos no pacote do produto.

Aparência	Nome do item	Quantidade	Descrição
	SPD-400	1	
	Manual de Instruções, CD de instalação	1	Manual do Usuário, Programa de software do IP Installer
	Guia de referência rápida	1	
	MONTAGEM: Parafuso auto-atarrachante	4	Usado para instalação na parede

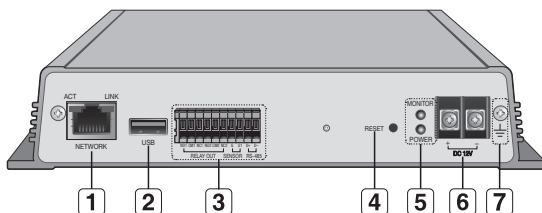
VISÃO GERAL

Parte frontal



Item	Descrição
1 AUDIO OUT	Esta porta transmite o áudio selecionado do dispositivo conectado pela rede, de acordo com as configurações.
2 VIDEO (CVBS) OUT	Uma porta de saída BNC para exibição. Esta porta só transmite vídeo se o modo CVBS estiver selecionado.
3 HDMI	Uma porta de saída HDMI para exibição. Esta porta só transmite vídeo se o modo HDMI ou VGA estiver selecionado.
4 VGA	Uma porta de saída VGA para exibição. Esta porta só transmite vídeo se o modo HDMI ou VGA estiver selecionado.

Parte traseira

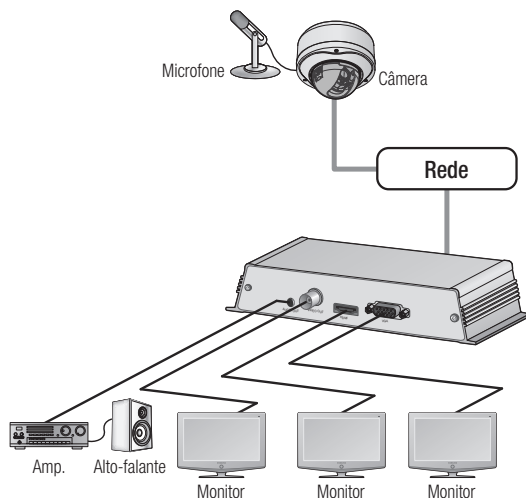


Item	Descrição	
1 NETWORK	Usado para conectar um cabo Ethernet.	
2 USB	Esta função não está disponível atualmente.	
3 Porta E/S	RS-485 D+/D-	Esta função não está disponível atualmente.
	N01/N02	Saída de alarme (Normal aberto)
	CM1/CM2	Saída de alarme (Comum)
	NC1/NC2	Saída de alarme (Normal fechado)
	S1	Uma porta de sensor de entrada do alarme.
	G	Porta de aterramento para sinal externo.
4 RESET	Esse botão inicializa as configurações do decodificador de vídeo em rede ou seleciona a saída do monitor. Pressione e mantenha por 5 segundos ou mais, e o indicador do sistema desliga, as configurações são inicializadas e ele reiniciará. Pressione o botão por aproximadamente 1 segundo e, em seguida, a cor do LED DO MONITOR muda conforme o modo da saída de vídeo é alterado.	

Item	Descrição	
5 Alimentação, LED do monitor	MONITOR	Indica o modo de saída de vídeo. Verde : modo de saída HDMI ou VGA. Amarelo : Modo de saída CVBS. ■ Para alterar o modo de saída de vídeo, altere-o nas configurações de vídeo do Visualizador na Web ou pressione o botão [RESET] por aproximadamente 1 segundo.
	POWER	LIG : enquanto a energia estiver ligada. DESL : se a energia estiver desligada.
6 Porta de alimentação	Usada para conectar a fonte de alimentação especificada.	
7 GND	Usado para aterramento.	

instalação e conexão

CONECTANDO A OUTRO DISPOSITIVO



Conectando à saída de vídeo

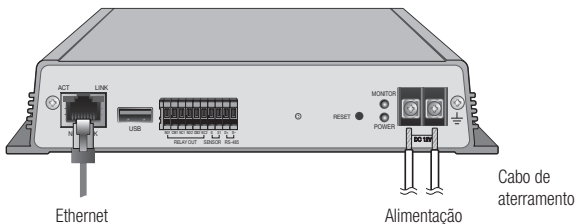
Conecte um monitor à saída de vídeo preferida do decodificador de vídeo em rede.



- Transmite o vídeo pela porta, de acordo com a configuração definida em **"Configuração do display > Monitor"** do Visualizador na Web. (Página 37)
- Quando estiver no modo de saída HDMI ou VGA, a exibição talvez não seja processada adequadamente se a resolução configurada não for suportada pelo monitor.
- Mantenha pressionado o botão **[RESET]** por aproximadamente 1 segundo para alterar o modo de saída de vídeo.
- O LED DO MONITOR muda a cor de acordo.

Conectando a Entrada/Saída de áudio

1. Conecte um microfone à câmera ou ao decodificador de vídeo em rede e defina a configuração de Áudio do dispositivo correspondente para <LIG>.
 2. Defina a CONFIGURAÇÃO DE ÁUDIO em rede para LIGADA nas configurações de layout único e selecione sua saída da saída de linha e da saída HDMI em Configurações de áudio. Observe que a SAÍDA HDMI da saída de áudio só pode ser selecionada quando a saída de monitor estiver definida como HDMI.
 3. Ao usar Saída de Linha, conecte os terminais ENTRADA DE LINHA do alto-falante e SAÍDA DE ÁUDIO do decodificador de vídeo em rede.
 4. Para saída HDMI, conecte um monitor HDMI à porta HDMI.
 - Para saída de áudio HDMI, é necessário um monitor com alto-falante embutido.
- ! ■ Existe a possibilidade de o áudio HDMI não funcionar com alguns monitores específicos.



Conexão Ethernet

Conecte o cabo Ethernet à rede local ou à Internet.

instalação e conexão

Fonte de alimentação

Use a chave de fenda para conectar cada linha (+, -) do cabo de alimentação à porta de alimentação correspondente do decodificador de vídeo em rede.



- Tenha cuidado para não inverter a polaridade quando conectar o cabo de alimentação.
- Se você quiser conectar um dispositivo externo, precisará desativar o dispositivo externo antes de continuar.

Resistência elétrica do fio de cobre a [20°C (68°F)]

Diâmetro do fio de cobre (AWG)	#24(0,22mm ²)	#22(0,33mm ²)	#20(0,52mm ²)	#18(0,83mm ²)
Resistência (Ω/m)	0,078	0,050	0,030	0,018
Queda de tensão (V/m)	0,028	0,018	0,011	0,006
Distância recomendada (m)	Inferior a 20	Inferior a 30	Inferior a 30	Inferior a 30

- Conforme mostrado na tabela acima, você pode encontrar um afundamento de tensão, dependendo do comprimento do fio.
Se você usar um fio excessivamente comprido para conexão do decodificador de vídeo em rede, ele pode não funcionar apropriadamente.
 - Tensão de operação do decodificador de vídeo em rede: 12VCC±10%
 - As medidas de queda de tensão no gráfico acima podem variar dependendo do tipo e fabricante do fio de cobre

Aterramento do produto

Use uma chave de fenda para conectar o cabo de aterramento ao parafuso FG à direita, ao lado da entrada de energia.



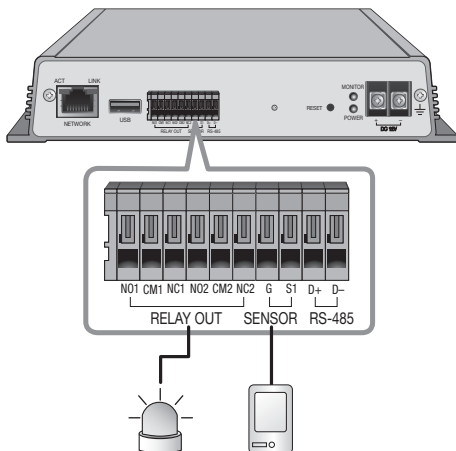
- O aterramento protege o produto de um surto de tensão ou raios.
- Ao aterrar, desligue a alimentação elétrica do produto.

Cabo de aterramento recomendado

- Comprimento: Menos de 3 m
- Calibre: 18 AWG ou maior
Ex) UL1007 AWG 18/16, UL1015 AWG 18/16/14/12, UL2468 AWG 18/16/14

Conectando à caixa da porta E/S

Conecte o sinal E/S de alarme à porta correspondente da caixa da porta traseira.



Conectando à entrada de alarme

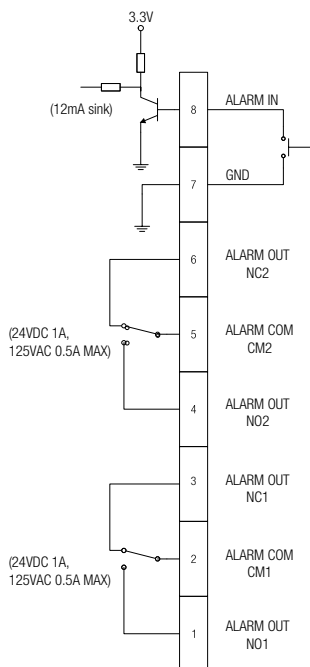
Conecte um cabo de sinal (de 2) do sensor aplicável à porta [S1] e o outro à porta [G].

Conectando a saída de alarme

Conecte um cabo de sinal (de 2) do dispositivo externo aplicável a [RELAY OUT(NC, NO)] e o outro à porta [CM].

instalação e conexão

Diagrama de instalação elétrica de E/S do alarme



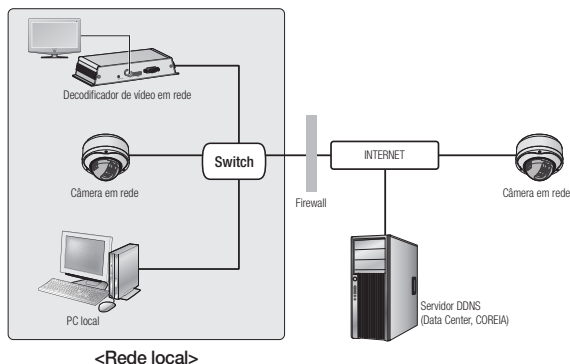
conexão de rede e configuração

Você pode definir as configurações de rede do Decodificador de vídeo em rede como preferir.

CONFIGURANDO O DECODIFICADOR DE VÍDEO EM REDE EM AMBIENTES DE LAN

Acessando o decodificador de vídeo em rede de um PC na mesma LAN

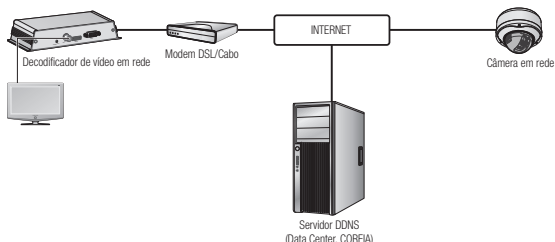
1. Inicie um navegador da Internet no PC local.
2. Digite o endereço IP do decodificador de vídeo em rede no campo de endereços do navegador.



- Um PC remoto em uma Internet externa fora da rede LAN talvez não possa se conectar ao decodificador de vídeo em rede instalado na intranet, se um firewall estiver configurado. Nesse caso, entre em contato com o administrador da rede para resolver o problema.
- O endereço IP padrão é definido como 192.168.1.200.
Para alterar o endereço IP, use o Instalador IP.
Para obter mais detalhes sobre como usar o instalador IP, consulte "Configuração de IP estático". (Página 23)

conexão de rede e configuração

CONECTANDO O DECODIFICADOR DE VÍDEO EM REDE DIRETAMENTE AO MODEM DSL/CABO BASEADO EM DHCP



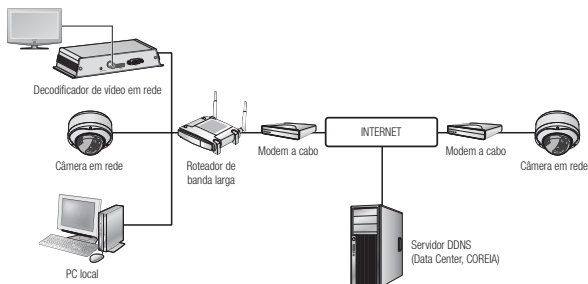
1. Use um cabo cruzado para conectar um computador e o decodificador de vídeo em rede.
2. Execute o Instalador IP e altere o endereço IP do decodificador de vídeo em rede para poder usar o navegador de seu desktop para se conectar à Internet.
3. Acesse o decodificador de vídeo em rede usando um navegador da Internet.
4. Siga para a página **[Configuração]**.
5. Siga para **[Rede] – [Interface]** e defina o tipo de IP como **[DHCP]**.
6. Conecte o decodificador de vídeo em rede, que foi removido de seu PC, diretamente ao modem.
7. Reinicie o decodificador de vídeo em rede.



- Para definir o tipo de IP, consulte **"Interface"**. (página 39)

CONECTANDO O DECODIFICADOR DE VÍDEO EM REDE E ROTEADOR DE BANDA LARGA QUE ESTÁ CONECTADO AO CABO DO MODEM

Isto se destina a um ambiente de rede pequeno, como residências, SOHO (Small Office/Home office, pequeno escritório/em casa) e lojas comuns.



Definindo as configurações de rede do PC local conectado a um roteador de banda larga

Definindo as configurações de rede do PC local conectado a um roteador de banda larga, siga as instruções abaixo.

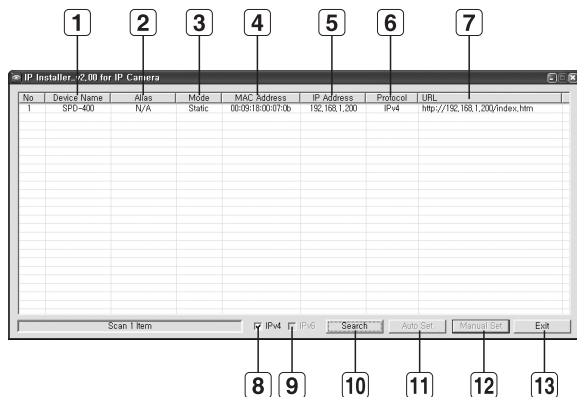
- Seleção: <Network Neighborhood> → <Properties> → <Local Area Connection> → <Properties> → <General> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically> ou <Use the following IP address>.
- Siga as instruções abaixo se você selecionar <Use the following IP address>:
 - ex. 1: Se o endereço (IP da LAN) do roteador de banda larga for 192.168.1.1
 Endereço IP: 192.168.1.200
 Máscara de sub-rede: 255.255.255.0
 Gateway padrão: 192.168.1.1
 - ex. 2: Se o endereço (IP da LAN) do roteador de banda larga for 192.168.0.1
 Endereço IP: 192.168.0.200
 Máscara de sub-rede: 255.255.255.0
 Gateway padrão: 192.168.0.1
 - ex. 3: Se o endereço (LAN IP) do roteador de banda larga for 192.168.xxx.1
 Endereço IP: 192.168.xxx.200
 Máscara de sub-rede: 255.255.255.0
 Gateway padrão: 192.168.xxx.1



- Para o endereço do roteador de banda larga, consulte a documentação do produto.

conexão de rede e configuração

BOTÕES USADOS NO INSTALADOR IP



Item	Descrição
1 Device Name	Nome do modelo do dispositivo de rede conectado. Clique na coluna para classificar a lista por nome de modelo. No entanto, se você clicar com o mouse a pesquisa será interrompida.
2 Alias	Esta função não está implementada atualmente.
3 Mode	Exibe <Static> ou <Dynamic> para o status de conexão de rede atual.
4 MAC(Ethernet) Address	Endereço Ethernet do dispositivo de rede conectado. Clique na coluna para classificar a lista por endereço Ethernet. No entanto, se você clicar com o mouse a pesquisa será interrompida.
5 IP Address	Endereço IP. Clique na coluna para classificar a lista por endereço IP. No entanto, se você clicar com o mouse a pesquisa será interrompida. O padrão de fábrica é "192.168.1.200".
6 Protocol	Configurações de rede do dispositivo de rede. O padrão de fábrica é "IPv4". Decodificador de vídeo em rede com configuração IPv6 serão exibidos "IPv6".

Item	Descrição
7 URL	Mostra o endereço do URL.
8 IPv4	Rastreia dispositivos de rede com a configuração IPv4.
9 IPv6	Rastreia dispositivos de rede com a configuração IPv6. Ativado em um ambiente compatível com IPv6.
10 Search	Rastreia dispositivos de rede atualmente conectados à rede. No entanto, este botão ficará desativado se não forem marcadas a opção IPv4 nem a IPv6.
11 Auto Set	O Instalador IP define as configurações de rede automaticamente.
12 Manual Set	Você deve definir as configurações de rede manualmente.
13 Exit	Sai do programa Instalador IP.



- No IP Installer, use apenas a versão do instalador fornecida no CD de instalação.

CONFIGURAÇÃO DE IP ESTÁTICO

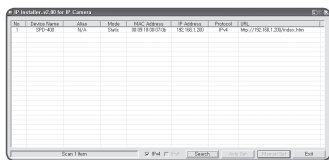
Configuração de rede manual

Execute <IP Installer_vX.XX.exe> para exibir a lista de pesquisa de dispositivos de rede. Na inicialização inicial, as opções **[Auto Set]** e **[Manual Set]** ficarão desativadas.



- Para dispositivos de rede encontrados na configuração IPv6, esses botões ficarão desativados, pois os dispositivos de rede não oferecem suporte para esta função.

1. Selecione um dispositivo de rede do resultado da pesquisa.
Encontre o endereço MAC (Ethernet) rotulado na parte traseira do dispositivo de rede
As opções **[Auto Set]** e **[Manual Set]** serão ativadas.



2. Clique em **[Manual Set]**.
A caixa de diálogo de configuração manual é exibida.
Os valores padrão de <IP Address>, <Subnet Mask>, <Gateway>, <HTTP Port> e <VNP Port> do dispositivo de rede serão exibidos.

conexão de rede e configuração

3. No painel <Address>, forneça as informações necessárias.

- MAC (Ethernet) Address : o endereço MAC (Ethernet) do dispositivo de rede aplicável será configurado automaticamente, portanto, não é necessário inseri-lo manualmente.

The 'Manual Setting' dialog box has two main sections. The left section is for 'Address' configuration, featuring a 'DHCP' checkbox (which is unchecked), a 'MAC Address' field with the value '00:09:18:00:07:0b', and fields for 'IP Address' (192, 168, 1, 200), 'Subnet Mask' (255, 255, 255, 0), and 'Gateway' (192, 168, 1, 1). There is also a 'Password' field. The right section is for 'Port' configuration, with 'HTTP Port' set to 80 and 'VNP Port' set to 1234. 'OK' and 'Cancel' buttons are at the bottom.



- Você só pode definir as configurações de IP estático se a caixa de seleção DHCP não estiver marcada.

Se estiver usando um roteador de banda larga.

- IP Address : digite um endereço dentro do intervalo de IP fornecido pelo roteador de banda larga.
ex. : 192.168.1.2~254,
192.168.0.2~254,
192.168.XXX.2~254
- Subnet Mask : A <Subnet Mask> do roteador de banda larga será a <Subnet Mask> do decodificador de vídeo em rede.
- Gateway : O <Local IP Address> do roteador de banda larga será o <Gateway> do decodificador de vídeo em rede.

The 'Setup' dialog box has tabs for 'Setup', 'Wireless', 'Security', 'Access Restrictions', and 'Applications & Gaming'. The 'Setup' tab is active, showing 'Internet Setup' with 'Internet Connection Type' set to 'Automatic Configuration - DHCP'. Below this are fields for 'Router Name', 'Host Name', and 'Domain Name'. The 'Network Setup' section shows 'Router IP' with 'Local IP Address' (192, 168, 1, 1) and 'Subnet Mask' (255, 255, 255, 0) highlighted with a red box. Other fields include 'MTU' (1400) and 'Size'.



- As configurações podem diferir, dependendo do modelo de roteador de banda larga conectado. Para obter mais informações, consulte o manual do usuário do roteador aplicável.

Se não estiver usando um roteador de banda larga.

Para configurar <IP Address>, <Subnet Mask> e <Gateway>, entre em contato com o administrador de rede.

4. No painel <Port>, forneça as informações necessárias.

- HTTP Port : usada para acessar o dispositivo de rede, usando o navegador da Internet, padrão 80. Use o botão de girar para alterar o valor da Porta HTTP.
- VNP Port : usada para controlar a transferência de vídeo de uma câmera ou codificador em rede. A porta VNP do decodificador de vídeo em rede não precisa de configuração. O valor padrão é 1234, que não deve ser modificado.

This is a duplicate of the 'Manual Setting' dialog box shown in the first image, with the same fields for Address and Port configuration.

5. Digite a senha.

Esta é a senha de login do usuário “**admin**” que acessa o dispositivo de rede.
A senha padrão é “**4321**”.



- A senha padrão pode ficar exposta a ameaças de hacker, portanto, recomenda-se alterar a senha após instalar o produto.
Observe que a segurança e outros problemas relacionados causados pela senha não alterada serão responsabilidade do usuário.

6. Clique em [OK].

A configuração manual da rede será concluída.

Se o decodificador de vídeo em rede estiver conectado a um roteador de banda larga

Defina as configurações relacionadas ao IP e as configurações relacionadas à porta, de maneira distinta uma da outra.

Categoria		Decodificador nº1	Decodificador nº2
Configurações relacionadas ao IP	IP Address	192.168.1.200	192.168.1.201
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Configurações relacionadas à porta	HTTP Port	8080	8081



- Se <HTTP Port> estiver definida diferente de 80, você deve fornecer número de <Port> na barra de endereço do navegador da Internet antes de poder acessar o decodificador de vídeo em rede.
ex.:http://endereço IP: Porta HTTP
http://192.168.1.200:8080

conexão de rede e configuração

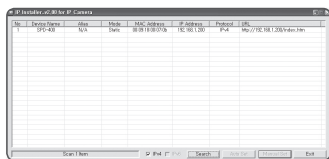
Configuração de rede automática

Execute <IP Installer_vX.XX.exe> para exibir a lista de pesquisa de dispositivos de rede. Na inicialização inicial, as opções [Auto Set] e [Manual Set] ficarão desativadas.



- Para dispositivos de rede encontrados na configuração IPv6, esses botões ficarão desativados, pois as câmeras não oferecem suporte para esta função.

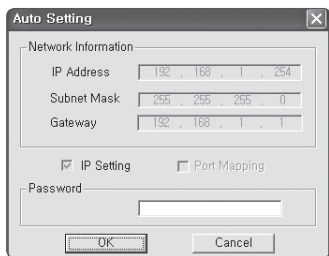
1. Selecione um dispositivo de rede do resultado da pesquisa.
Encontre o endereço MAC (Ethernet) rotulado na parte traseira do dispositivo de rede
As opções [Auto Set] e [Manual Set] serão ativadas.



2. Clique em [Auto Set].
A caixa de diálogo Configuração automática é exibida.
O <IP Address>, a <Subnet Mask> e o <Gateway> serão configurados automaticamente.

3. Digite a senha.
Esta é a senha de login do usuário "admin" que acessa o dispositivo de rede.
A senha padrão é "4321".

- A senha padrão pode ficar exposta a ameaças de hacker, portanto, recomenda-se alterar a senha após instalar o produto. Observe que a segurança e outros problemas relacionados causados pela senha não alterada serão responsabilidade do usuário.



4. Clique em [OK].
A configuração manual da rede será concluída.

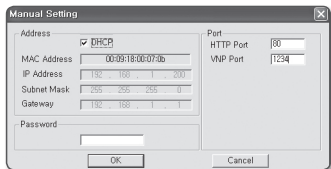
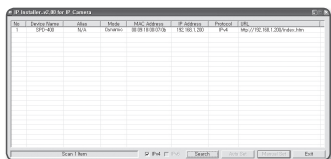
CONFIGURAÇÃO DE IP DINÂMICO

Configuração de ambiente de IP dinâmico

- Exemplo de ambiente de IP dinâmico
 - Se um roteador de banda larga com um dispositivo de rede conectado tiver um endereço IP atribuído pelo servidor DHCP
 - O dispositivo de rede é conectado diretamente a um modem baseado em DHCP
 - Se os IPs forem atribuídos pelo servidor DHCP interno por meio de LAN

Verificando o IP dinâmico

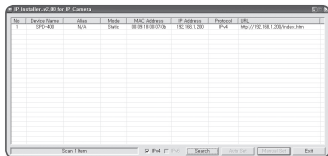
- De um PC local, execute o **<IP Installer>** para exibir uma lista de dispositivos de rede com **<Dynamic IP>** atribuído a eles.
- Selecione um dispositivo de rede na lista e clique em **[Manual Set]** para marcar o **<Dynamic IP>** do dispositivo de rede.
Se você desmarcar **<DHCP>**, você poderá mudar o IP para **<Static>**.



conexão de rede e configuração

CONECTANDO AO DISPOSITIVO DE REDE DE UM PC LOCAL COMPARTILHADO

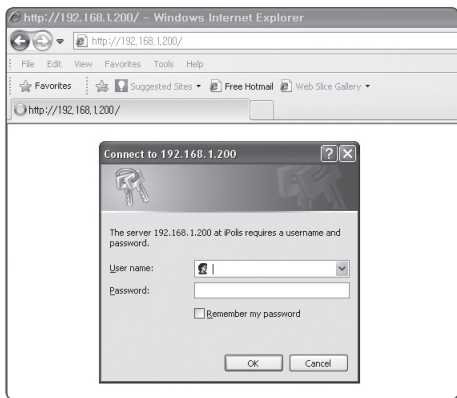
1. Execute o Instalador IP.
Ele pesquisa dispositivos de rede conectados e exibe na lista.
2. Clique duas vezes no dispositivo de rede desejado para se conectar.
O navegador da Internet inicia e se conecta ao dispositivo de rede.



- Você também pode acessar a câmera digitando o endereço IP do dispositivo de rede encontrado na barra de endereços do navegador da Internet

ACESSANDO O DECODIFICADOR DE VÍDEO EM REDE

Normalmente, você



1. Inicia o navegador da Internet.
2. Digita o endereço IP do decodificador de vídeo em rede no campo de endereço.
ex.: • Endereço IP (IPv4) : 192.168.1.200
→ http://192.168.1.200 - a caixa de diálogo de Logon deve aparecer.
• Endereço IP (IPv6) : 2001:0230:abcd:ffff:0000:0000:ffff:1111
→ http://[2001:230:abcd:ffff::ffff:1111] - a caixa de diálogo de Logon deve aparecer.

Se a porta HTTP for diferente de 80

1. Inicia o navegador da Internet.
2. Digite o endereço IP e o número da porta HTTP do decodificador de vídeo em rede no campo endereço.
ex.: Endereço IP : 192.168.1.200:HTTP Port number(8080)
→ http://192.168.1.200:8080 - a caixa de diálogo de Logon deve aparecer.

visualizador na Web

LOGON

A ID do usuário padrão é “admin” e a senha padrão é “4321”.

1. Digite “admin” na caixa de entrada <User Name>.
2. Digite “4321” na caixa de entrada <Password>.
Se a senha tiver sido alterada, digite a nova senha.
3. Clique em [OK].
Após fazer o logon, a tela de configuração do decodificador de vídeo em rede aparecerá.



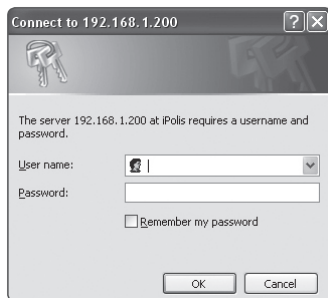
- Por motivos de segurança, verifique se você alterou a senha em <Sistema> - <Usuário>.

A ID do administrador, “admin”, é fixa e não pode ser alterada.

- A senha padrão pode ficar exposta a ameaças de hacker, portanto, recomenda-se alterar a senha após instalar o produto.
Observe que a segurança e outros problemas relacionados causados pela senha não alterada serão responsabilidade do usuário.
- Se você selecionar a opção “Remember my password” quando sua entrada for feita, no futuro você será conectado automaticamente e não será solicitado a digitar as informações de logon.



- Você experimentará a melhor qualidade de vídeo se o tamanho da tela estiver em 100%.
Reduzir a proporção pode cortar as bordas da imagem.



tela de configuração

CONFIGURAÇÃO

Você pode configurar remotamente as definições de áudio e vídeo, rede, evento e sistema do decodificador de vídeo em rede.

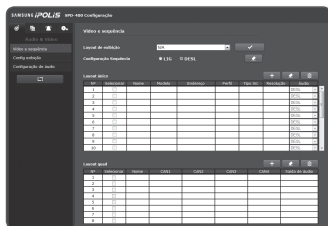


- Dependendo da versão do firmware da câmera/ decodificador em rede, registrar tais dispositivos no decodificador de vídeo em rede pode causar falhas ou fazer com que o dispositivo funcione incorretamente. Visite www.samsungtechwin.com para fazer download do firmware mais recente e atualizá-lo.

CONFIGURAÇÃO DE ÁUDIO E VÍDEO

Vídeo e sequência

- No menu Configuração, selecione a guia <Áudio & Vídeo ()>.
- Selecione <Vídeo e sequência>.
- Clique na caixa de entrada de cada item e digite/selecione o valor que desejar.
 - Layout de exibição : selecione o layout desejado para a tela de monitoramento entre os layouts único e quad.
 - Configuração Sequência : selecione se irá usar sequência de monitoramento automático e selecione layout e tempo de permanência do layout sequenciado.
 - A exibição alterna automaticamente entre os layouts atribuídos de acordo com o tempo de permanência configurado na sequência da definição. Até 10 layouts podem ser selecionados entre os layouts único e quad e o sequenciado.
 - Layout único : você pode adicionar uma câmera/decodificador de vídeo em rede que esteja operando na rede ou editar/excluir layouts únicos registrados.
 - Ele é a unidade básica do layout de exibição da câmera/decodificador de vídeo em rede conectado ao decodificador de vídeo em rede.
Após adicionar o layout único de uma câmera/decodificador de vídeo em rede, selecione o nome da câmera do layout único adicionado para exibir o vídeo da câmera/decodificador de vídeo em rede na tela de monitoramento.
Até 64 câmeras ou decodificador de vídeo em rede podem ser adicionados.
 - Layout quad : você pode compor, editar ou excluir um layout de 4-split selecionando os layouts únicos adicionados.
 - Componha um layout quad selecionando que layouts únicos da câmera/decodificador de vídeo em rede exibam tela de monitoramento de 4-split.
Atribua layouts únicos adicionados das câmeras/decodificador de vídeo em rede a um layout quad e selecione o layout quad composto para exibir tela de 4-split no monitor. Até 8 layouts quad podem ser adicionados.



tela de configuração

Para adicionar um layout único

1. Clique no botão **[Adic vídeo (+)]**.
2. Digite as informações da câmera/decodificador de vídeo em rede.
3. Digite o endereço IP ou o URL do DDNS do dispositivo que será adicionado ao campo **<Ender.>**.
 - Até 64 letras podem ser digitadas e a lista de layout exibe até 9 letras e **<...>** aparecerá para o resto.
4. Digite a ID e a senha do dispositivo que será adicionado.
5. Clique no botão **[Importar propriedades (ⓘ)]** para buscar informações no dispositivo que será conectado.
 - Não é possível adicionar a câmera se ela não tiver nenhum perfil.

The screenshot shows a configuration window titled "Adic vídeo". It contains the following fields and controls:

- Protocolo:** Radio buttons for "Samsung" (selected) and "AXIS".
- Ender.:** A text input field.
- Porta VNP:** A numeric input field with a value of "4520" and up/down arrows.
- Porta HTTP:** A numeric input field with a value of "80" and up/down arrows.
- ID:** A text input field.
- Senha:** A text input field with a "Refresh" (circular arrow) button to its right.
- No. do modelo:** A text input field.
- Nome da câmera:** A text input field.
- Perfil:** A dropdown menu showing "N/A".
- Tipo Src:** A text input field.
- Resolução:** A text input field.

At the bottom of the window, there are three buttons: a list icon, a plus sign (+), and a trash can icon.

6. Digite o <Nome da câmera> após as informações selecionadas aparecerem.

- O nome da câmera não permite nenhum espaço em branco no nome.
- Até 15 letras podem ser digitadas e a lista de layout exibe até 7 letras e <...> aparecerá para o resto.

7. Selecione um perfil.



- Se as propriedades do perfil da câmera forem alteradas depois de selecioná-las, o vídeo poderá não ser exibido. Nestes casos, a mensagem **"Not Decodable"** aparecerá no monitor.

8. Clique no botão [Adic (+)].



- Até 64 layouts podem ser adicionados.
- Clique no botão [Configuração da câmera ()] para exibir um navegador e acessar a página da Web da câmera adicionada.

Resoluções disponíveis para layout único

CODEC	H.264	MPEG-4	MJPEG
Layout único	1920x1080p ~ 320x240	4CIF ~ 320x240	1280x720p ~ 320x240 (exceto 800x600)

tela de configuração

Para editar um layout existente

1. Clique na caixa de seleção para selecionar um dispositivo adicionado.
2. Edite as informações existentes.
 - Observe que não é permitido editar os campos <Protocolo> e <Ender.>.
3. Clique em [Salvar ()].
4. Para cancelar, clique no botão [Cancelar ()].

Para excluir um layout existente

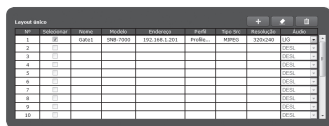
1. Clique na caixa de seleção para selecionar um dispositivo adicionado.
2. Clique no botão [Excluir ()] na parte superior da lista de layout.
3. Ao aparecer uma mensagem de confirmação, clique em [OK].



- Um layout que seja usado por um <Layout quad> ou na <Configuração sequência> ou que seja exibido atualmente na tela de monitoramento não pode ser alterado ou excluído, e tal tentativa exibirá uma mensagem de confirmação.

Para definir o áudio do layout único adicionado

1. Na lista de layouts únicos adicionados, define o áudio como <LIG> ou <DESL> de acordo com sua preferência.
 - Para um dispositivo configurado como áudio de saída, não é possível alternar de <DESL> para <LIG> no layout em modo quad. Uma mensagem de confirmação aparece quando tal tentativa é feita.
 - O áudio só pode ser selecionado quando a saída de áudio do dispositivo estiver definida como <LIG> em sua configuração de layout único.



ID	Subdispositivo	Nome	Modelo	Endereço	Perfil	Tipo Src	Resolução	Áudio
1	00	Câmera	SNB-7000	192.168.1.201	Profile1	MJPEG	320x240	LIG
2	01							DESL
3	02							DESL
4	03							DESL
5	04							DESL
6	05							DESL
7	06							DESL
8	07							DESL
9	08							DESL
10	09							DESL

Para adicionar um layout quad

1. Clique no botão **[Adic layout quad (+)]**.
 2. Selecione dispositivos nos layouts únicos adicionados para serem atribuídos a cada canal.
 3. Digite o **<Nome do layout>**.
 - Até 15 letras podem ser digitadas e a lista de layout exibe até 7 letras e **<...>** aparecerá para o resto.
 4. Selecione o canal da saída de áudio do layout quad entre os quatro canais atribuídos.
 Você pode selecionar um dispositivo se o áudio do dispositivo estiver definido como **<LIG>** em seu layout único.
 5. Clique no botão **[Adic (+)]**.
- 
 ■ Até 8 layouts quad podem ser adicionados. Observe que um layout único não pode ser atribuído ao mesmo layout quad diversas vezes. Entretanto, um layout único pode ser atribuído a diversos layouts quad.



Resoluções disponíveis para layouts quad

Algumas resoluções podem não ser compatíveis com um layout quad do decodificador de vídeo em rede, dependendo do CODEC usado.

Selecionar uma resolução que não seja compatível exibirá uma mensagem de erro.

Antes de adicionar, consulte as resoluções disponíveis abaixo.

CODEC	H.264	MPEG-4	MJPEG
Layout quad	1280x720p ~ 320x240 (exceto 800x600)	4CIF ~ 320x240	1280x720p ~ 320x240 (exceto 800x600)

tela de configuração



- Na exibição em modo Quad com resolução de menos de 960x540, cada vídeo será centralizado em sua tela dividida se todos os vídeos dos quatro canais tiverem a mesma resolução. No momento, vídeos 320x240 e 352x240 serão aumentados para 640x480 e 704x480, respectivamente.



- Se as propriedades do perfil da câmera forem alteradas depois de selecioná-las, o vídeo poderá não ser exibido



<a 2ª divisão exibe o vídeo com resolução menor que 960x540>

Para editar um layout quad

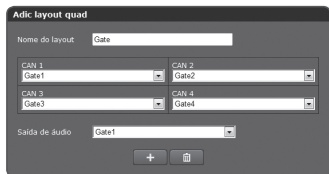
- Clique na caixa de seleção do layout que desejar na lista.
- Faça suas alterações com o canal atribuído ou edite o nome do layout.
- Clique em **[Salvar ()]**.
- Para cancelar, clique no botão **[Cancelar ()]**.

Para excluir um layout quad

- Clique na caixa de seleção do layout que desejar na lista.
- Clique no botão **[Excluir ()]**.
- Ao aparecer uma mensagem de confirmação, clique em **[OK]**.



- layout QUAD que seja incluído na <Configuração sequência> ou que seja exibido atualmente na tela de monitoramento não pode ser alterado ou excluído, e tal tentativa exibirá uma mensagem de confirmação.



Para definir uma sequência

1. Pressione o botão **[Configuração Sequência ()]**.
2. Selecione layouts na ordem que desejar para exibir na sequência.
3. Digite o intervalo da transição do layout.
4. Ao terminar, clique em **[Aplicar ()]**.
5. Defina a configuração sequência como **<LIG>**.

Os layouts selecionados serão exibidos na ordem especificada, alternados no intervalo especificado.



Para selecionar o layout que será exibido no monitor

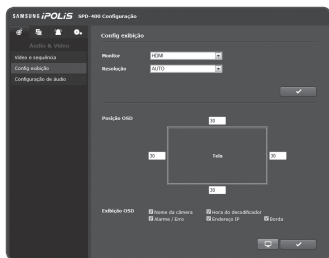
Você pode definir o layout que será exibido em um monitor conectado.

1. Clique na lista "Exibir layout" para exibir os layouts disponíveis.
Selecione um layout para ser exibido na tela.
2. Ao terminar, clique em **[Aplicar ()]**.
 - Se Configuração Sequência estiver definida como **<LIG>**, a caixa de lista **<Exibir layout>** estará desabilitada.



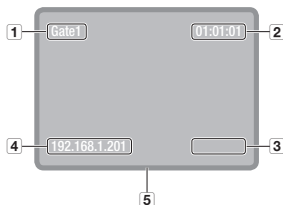
Config exibição

1. No menu Configuração, selecione a guia **<Áudio & Vídeo ()>**.
2. Clique em **<Config exibição>**.
3. Clique na caixa de entrada de cada item e digite/selecione o valor que desejar.
 - Monitor : selecione o tipo do monitor de destino para exibição do vídeo.
 - Resolução : selecione a resolução do monitor.
 - Ao selecionar **<CVBS>**, o menu será alterado para **<Tipo CVBS>**.



tela de configuração

- Posição OSD : seleciona a posição do menu de exibição na tela.
Se você alterar o número das posições OSD, ela será movida para o número definido na tela inteira.
- Exibição OSD : seleciona tipos de OSD para serem exibidos no monitor.
 - ❶ Nome da câmera : exibe o nome da câmera usada ao registrar o layout.
 - ❷ Hora do decodificador : exibe a hora definida no decodificador.
 - ❸ Alarme / Erro : exibe alarme/erro no monitor quando ocorrer.
 - ❹ Endereço IP : exibe o endereço IP da câmera.
 - ❺ Borda : separa cada tela de câmera com linhas nas bordas.
- Visualização () : visualiza definições alteradas relacionadas ao OSD e as aplica ao confirmar.
Aplicar alterações da configuração de OSD não afeta as definições do monitor.



4. Ao terminar, clique em **[Aplica ()]**.

Configuração de áudio

Você pode configurar definições de entrada/saída de áudio dos dispositivos conectados ao decodificador de vídeo em rede.

1. No menu Configuração, selecione a guia <**Áudio & Vídeo** ()>.
2. Clique em <**Configuração de áudio**>.
3. Ajuste os níveis de E/S de áudio de acordo com sua preferência.
 - Saída de áudio : defina usar ou não áudio e seu método de saída.
 - Ganho : é habilitado ao selecionar <**Saída de linha**> e define o valor.



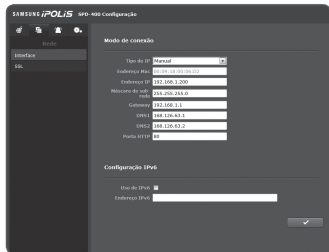
- ❏ O áudio só é produzido se o dispositivo conectado for compatível com entrada de áudio e estiver definido como ligado.
- Para selecionar saída de áudio HDMI, a Definição do monitor da Configuração do display deve estar definida como HDMI.
- Se o nível de entrada de Áudio estiver muito alto, o Descodificador de Áudio pode ficar distorcido. Por favor ajuste o nível da entrada de Áudio.

4. Ao terminar, clique em **[Aplica ()]**.

CONFIGURAÇÃO DA REDE

Interface

1. No menu Configuração, selecione a guia <Rede ()>.
2. Clique em <Interface>.
3. Defina a <Modo de conexão> e a <Configuração IPv6> conforme necessário.
 - Tipo de IP : selecione um tipo de conexão IP.
 - Manual : especifique o endereço IP, a Máscara de sub-rede, o Gateway, o DNS1 e o DNS2.
 - DHCP : especifique o DNS1 e o DNS2.
 - Se defini-lo como <Manual>, você deverá especificar o IP, a Máscara de sub-rede, o Gateway, o DNS1 e o DNS2 manualmente.
 - Endereço MAC : exibe o endereço MAC do decodificador de vídeo em rede.
 - Endereço IP : exibe o endereço IP atual.
 - Máscara de sub-rede : exibe a <Máscara de sub-rede> do IP definido.
 - Gateway : exibe o <Gateway> do IP definido.
 - DNS1/DNS2 : exibe o endereço do servidor DNS (Serviço de Nome de Domínio).
 - Porta HTTP : porta HTTP usada para acessar o decodificador de vídeo em rede por meio do navegador. O padrão é 80 (TCP).
 - Uso de IPv6 : especifique o uso de IPv6.
 - Endereço IPv6 : obtém o endereço IPv6 para acessar a rede IPv6.
4. Ao terminar, clique em [Aplicar ()].



tela de configuração

SSL

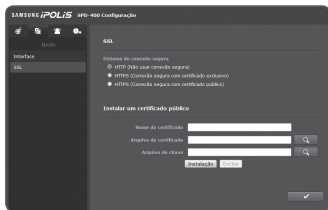
Você pode selecionar um sistema de conexão segura ou instalar o certificado público para esse fim.

1. No menu Configuração, selecione a guia **<Rede ([Rede])>**.

2. Clique em **<SSL>**.

3. Selecione um sistema de conexão segura.

- Ao acessar o decodificador de vídeo em rede usando um modo HTTPS seguro, digite o endereço IP no campo de endereço como: `https://<Network Decoder_IP>`.



4. Procure e adicione um certificado para o decodificador de vídeo em rede. Para instalar o certificado no decodificador de vídeo em rede você precisa digitar o nome do certificado (ele pode ser atribuído arbitrariamente pelo usuário) e especificar o arquivo de certificado emitido pela autoridade e um arquivo de chave.

- O item **<HTTPS (Conexão segura com certificado público)>** só estará ativo se existir um certificado público instalado.

5. Ao terminar, clique em **[Aplicar ([Aplicar])]**.

Instalando o certificado

1. Insira o nome do certificado.

2. Selecione o arquivo de certificado desejado e o respectivo arquivo de chave e clique no botão **[Instalação ([Instalação])]**.

Excluindo um certificado

1. Clique no botão **[Excluir ([Excluir])]**.

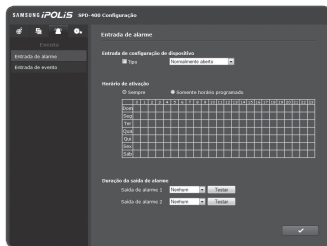
2. Para excluir um certificado público, você deve acessar o decodificador de vídeo em rede no modo **<HTTP (Não usar conexão segura)>** ou **<HTTPS (Conexão segura com certificado exclusivo)>**.

CONFIGURAÇÃO DE EVENTO

Entrada de alarme

Você pode configurar o tipo e a duração da entrada de alarme e o tipo de ação da porta de entrada de alarme do decodificador de vídeo em rede.

1. No menu Configuração, selecione a guia <Evento (🔔)>.
2. Clique em <Entrada de alarme>.
3. Selecione o tipo de dispositivo de entrada.
 - Tipo
 - Normalmente aberto : Normalmente fica aberto, mas se estiver fechado, um alarme será acionado.
 - Normalmente fechado : Normalmente fica fechado, mas se estiver aberto, um alarme será acionado.



4. Especifique o <Horário de ativação>.
 - Sempre : verifique sempre se ocorre um evento de alarme. Ele é ativado no modo operado quando o evento de alarme ocorre.
 - Somente horário programado : verifique se ocorre um evento de alarme em um dia específico da semana em um período de tempo especificado. Ele é ativado no modo operado quando o evento de alarme ocorre.
5. Defina o tempo de permanência de saída do alarme quando ocorrer um alarme.
 - Saída de alarme : especifique o tempo de saída do alarme na configuração de entrada de alarme.
 - Se a duração de saída do alarme estiver definida como <Sempre>, o alarme continuará a funcionar até que o botão de confirmação do alarme seja pressionado, conforme expresso na página Áudio e Vídeo.
 - Tester : conduz um alarme de teste para o dispositivo de saída de alarme conectado.
6. Ao terminar, clique em [Aplicar (✔)].

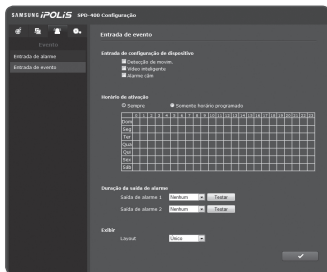
tela de configuração

Entrada de evento

Você pode configurar a duração e o tipo de ação do alarme da câmera ou do decodificador de vídeo em rede.

1. No menu Configuração, selecione a guia <**Evento** ()>.
2. Clique em <**Entrada de evento**>.
3. Especifique um dispositivo de entrada de evento.

- Entrada de configuração de dispositivo
 - Detecção de movim. : reconhece um movimento detectado no dispositivo conectado como um alarme.
 - Vídeo inteligente : reconhece um evento de análise de vídeo inteligente detectado no dispositivo conectado como um alarme.
 - Alarme câm : reconhece um evento de entrada do sensor no dispositivo conectado como um alarme.



- Acessível para operação só quando a câmera registrada ao layout oferece suporte para a função aplicável e estiver configurada como ligada.

4. Especifique o horário de ativação.
 - Para configuração de <**Horário de ativação**>, consulte “**Entrada de alarme**”. (Página 41)
5. Configure a <**Duração da saída de alarme**> de cada alarme.
6. Selecione o <**Layout**> de cada exibição de vídeo do dispositivo em um evento.

Se o modo <**Quad**> estiver selecionado e o layout único desejado estiver atribuído a dois layouts quad, o layout quad com o menor número de layouts será selecionado e exibido.

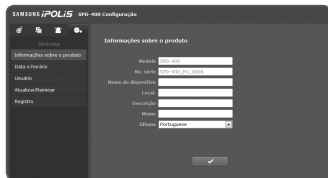
Quando ocorre um evento, o layout selecionado para o evento é exibido juntamente com a borda e a mensagem de alarme, de acordo com a configuração de exibição especificada, até que o botão de confirmação do alarme seja pressionado na página Áudio e Vídeo.

Quando o botão de confirmação de alarme é pressionado, a tela retorna para o layout anterior ao evento.
7. Ao terminar, clique em [Aplicar ()].

CONFIGURAÇÃO DO SISTEMA

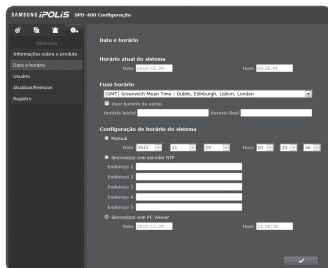
Informações sobre o produto

1. No menu Configuração, selecione a guia <**Sistema** ()>.
2. Clique em <**Informações sobre o produto**>.
3. Verifique as informações do decodificador de vídeo em rede ou forneça detalhes, de acordo com seu ambiente de rede.
 - Nome do dispositivo : Digite o nome do decodificador de vídeo em rede.
 - Local : Descreva o local do decodificador de vídeo em rede instalado.
 - Descrição : Digite as informações detalhadas adicionais sobre o decodificador de vídeo em rede instalado.
 - Memo : Forneça uma explicação sobre o decodificador de vídeo em rede para melhor compreensão.
 - Idioma : Selecione um idioma preferencial para os menus do decodificador de vídeo em rede e o Visualizador na Web OSD.
4. Ao terminar, clique em [**Aplicar** ()].



Data e horário

1. No menu Configuração, selecione a guia <**Sistema** ()>.
2. Clique em <**Data e horário**>.
3. Defina o horário do sistema do decodificador de vídeo em rede.
 - Horário atual do sistema : exibe as configurações de horário atual de seu sistema.
 - Fuso horário : especifica o fuso horário local baseado no GMT (Greenwich Mean Time, horário médio de Greenwich).
 - Usar horário de verão : se DST for aplicável à região do local instalado, você pode selecionar se deseja aplicar DST ou não.



tela de configuração

- Configuração de horário do sistema : especifique o horário e a data que serão aplicados a seu sistema.
 - Manual : especifique o horário manualmente.
 - Sincronizar com servidor NTP : sincronize com o horário do endereço de servidor especificado.
 - Sincronizar com PC Viewer : sincronize o horário com o PC conectado.

4. Ao terminar, clique em **[Aplicar ()]**.



- Se você selecionar **<Sincronizar com PC Viewer>**, o fuso horário padrão deve ser definido igual ao fuso horário atual no PC.

Usuário

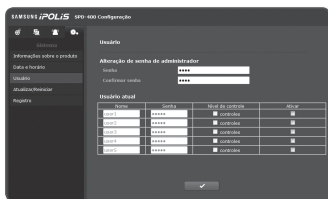
1. No menu Configuração, selecione a guia **<Sistema ()>**.

2. Clique em **<Usuário>**.

3. Forneça as informações de usuário necessárias.

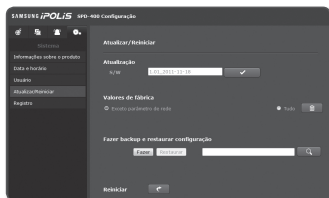
- Alteração de senha de administrador : altere a senha atual do administrador.
 - A senha padrão pode ficar exposta a ameaças de hacker, portanto, recomenda-se alterar a senha após instalar o produto. Observe que a segurança e outros problemas relacionados causados pela senha não alterada serão responsabilidade do usuário.
- Usuário atual : você pode alterar as informações de usuário e ajustar o nível de permissão de um usuário que esteja definido como **<Ativar>**.
 - controles : se definido como ligado, todos os itens de menu, exceto a administração de conta de usuário, podem ser usados.
 - Ativar : ativa a conta do usuário.

4. Ao terminar, clique em **[Aplicar ()]**.



Atualizar/Reiniciar

1. No menu Configuração, selecione a guia <Sistema ()>.
2. Clique em <Atualizar/Reiniciar>.
3. Selecione um item desejado e defina-o adequadamente.
 - Atualização : executa a atualização do sistema.
 - Valores de fábrica : redefine o sistema para os valores de fábrica.
 - Exceto parâmetro de rede : redefine todas as configurações, exceto os parâmetros de rede.
 - Todo : redefine todas as configurações, incluindo os parâmetros de rede.
 - Fazer backup e restaurar configuração : faz backup das configurações de sistema atuais antes de executar o processo de restauração. O sistema reinicia automaticamente após o backup ou a restauração.
 - Reiniciar : reinicia o sistema.



Para executar a atualização

1. Clique em [].
 2. Clique em [] e especifique um arquivo para atualizar.
 3. Clique em [Atualizar].
 4. A caixa de diálogo “Atualizar status” aparece, onde o progresso é mostrado, na parte inferior.
-  Se você forçar o término do processo de atualização, a atualização não será concluída corretamente.

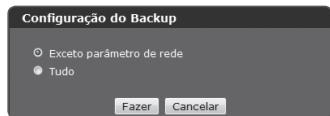


tela de configuração

Para salvar as configurações atuais e restaurar as configurações de backup

1. Clique em **[Fazer]**.

A caixa de diálogo Salvar como deve aparecer.



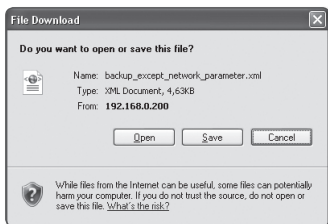
2. Especifique o caminho do backup com um nome de arquivo adequado e clique em **[Save]**.

O arquivo de backup será salvo no caminho especificado no formato ".xml".

3. Para restaurar as configurações de um backup, selecione o arquivo de backup.

4. Clique em **[Restaurar]**.

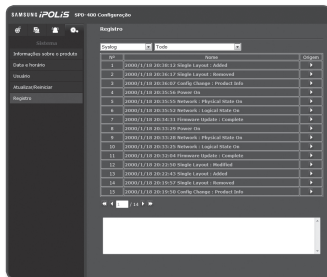
Após concluir a restauração, o sistema reiniciará.



Registro

Você pode verificar o registro do sistema ou do evento.

1. No menu Configuração, selecione a guia <Sistema ()>.
2. Clique em <Log>.
3. Selecione um tipo de registro.
 - Syslog : Você pode verificar os registros do sistema quando qualquer alteração no sistema for registrada, incluindo informações de horário.
 - Evtlog : Você pode verificar os registros de evento, incluindo as informações de horário.
4. Na lista de registros à direita, selecione um item para pesquisar.
 - Se você selecionar <Todo> na lista suspensa da parte superior esquerda, todos os registros do tipo de registro aplicável serão exibidos.
5. Se uma página não puder exibir todos os registros disponíveis, use os botões inferiores para mover até o item anterior, próximo ou último.



- Se desejar exibir os detalhes de um registro, clique em [Origem ()] na coluna à direita do registro; as informações do registro serão exibidas no painel inferior.
- Cada página exibe 15 registros, com o mais recente exibido na parte superior.
- A lista de registros de evento/sistema pode conter até 1000 registros; depois disso, os registros existentes serão excluídos a partir do mais antigo, sempre que um novo registro for criado.

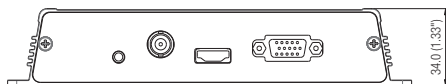
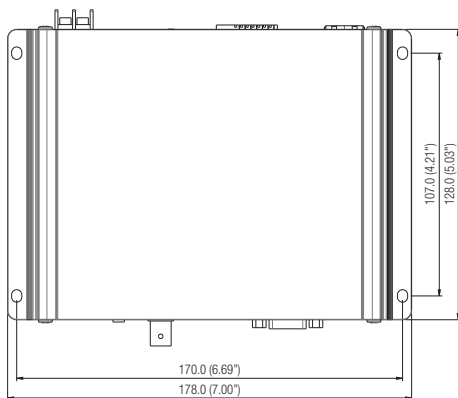
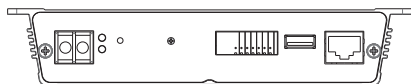
ESPECIFICAÇÕES

Itens		Descrição
Saída de vídeo	Saída de vídeo	1) HDMI/VGA : Máx 1920x1080p (mesma resolução de saída de HDMI, VGA) 1920x1080p, 1680x1050, 1600x900, 1440x900, 1280x1024, 1280x720p, 1024 x 768 2) CVBS : NTSC : 1.0 Vp-p / 75Ω composite 704x480 PAL : 1.0 Vp-p / 75Ω composite 704x576 3) Seleção de HDMI/VGA, CVBS
	Latência de vídeo	1) H.264 : 3,5 segundos no máximo 2) MPEG-4 : 2 segundos no máximo 3) MJPEG : 2 segundos no máximo
	Acionador de evento	Entrada de alarme, entrada de evento da câmera em rede
	E/S do Alarme	Entrada 1 ea/Saída 2ea (Relé)
Rede	Ethernet	RJ-45 (10/100/1000BASE-T)
	Formato de compactação de vídeo	H.264, MPEG-4, MJPEG
	Resolução	1) H.264 - Exibição única: 1920x1080p ~ 320x240 - Exibição Quad: 1280x720p ~ 320x240 (exceto 800x600) 2) MPEG-4 : - Exibição única: 4CIF ~ 320x240 - Exibição Quad: 4CIF ~ 320x240 3) MJPEG : - Exibição única: 1280x720p ~ 320x240 (except 800x600) - Exibição Quad: 1280x720p ~ 320x240 (exceto 800x600) 1920x1080p, 1280x1024, 1280x720p, 704x576, 704x480, 640x480, 352x288, 352x240, 320x240
	Taxa de quadros máxima	Máx. de 30 fps em uma única exibição, máx. de 120 fps em 4x (640x480), máx. de 100 fps em 4x4 CIF, máx. de 60 fps em 4x720p (quando o áudio estiver desativado)
	Monitor	Layout único, layout quad

	Itens	Descrição
Rede	E/S do áudio	1 Saída de linha
	Formato de compactação de áudio	G.711, G.726
	IP	IPv4, IPv6
	Protocolo	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), NTP, HTTP, DHCP, ICMP, IGMP, ARP, SSL, DNS
	Segurança	Autenticação de logon HTTPS (SSL) Registro de acesso do usuário
	Conexões de câmera	64 câmeras, 8 layouts, 10 sequências
	Conformidade ONVIF	Não suportado
	Dispositivos suportados	Câmeras de rede Samsung (*) Eixo: P3301, P3343, P3344, P1311, P1343, P1344, P1346, PTZ215, Q6032, Q7401, Q7404 (versão F/W: 5.x) 1) Stream (Vídeo/áudio ao vivo) : SVNP 1.2, (AXIS : RTP/RTSP) 2) Alarme de controle/rede: SVNP 1.2 (EIXO: Não suportado) * Entre em contato com seu revendedor para detalhes atualizados sobre dispositivos de rede Samsung compatíveis.
	Visualizador na Web	SO suportado: Windows XP/VISTA/7 Navegador suportado: Internet Explorer 7.0 ou 8.0, Firefox x2.x, 3.x, Chrome, Safari
Ambiente	Temperatura /umidade de operação	+0°C ~ +40°C (+32°F ~ +104°F) / 0% ~ 90% RH
Elétrica	Tensão de entrada	CC 12V
	Consumo de energia	Máx. 10W
Mecânica	Cor/Material	Prata/Metal
	Dimensões (LxAxP)	L 178,0 x A 34,0 x P 128,0mm (L 7,00 x A 1,33 x P 5,03 polegada)
	Peso	530 g

VISÃO GERAL DO PRODUTO

Unidade: mm (polegada)



SOLUÇÃO DE PROBLEMAS

PROBLEMA	SOLUÇÃO
Não é possível acessar o decodificador de vídeo em rede com um navegador da Internet.	- Se ao reiniciar o decodificador de vídeo em rede acontecer a mesma coisa, mantenha o botão [RESET] pressionado por aproximadamente 5 segundos para redefinir as configurações do decodificador de vídeo em rede. - Certifique-se de verificar se todos os cabos de rede foram conectados adequadamente. - Para o ambiente DHCP, verifique se o decodificador de vídeo em rede está atribuído corretamente a um endereço IP dinâmico.
Não consigo me conectar ao sistema usando a navegação em guias do Internet Explorer 7.0.	Ao tentar se conectar ao sistema usando a navegação em guias, a mesma informação de cookie é compartilhada, o que resulta em erros quando conectado. Portanto, em vez de usar a navegação em guias, abra uma nova janela do navegador para se conectar ao sistema.
O programa Instalador IP falha ao pesquisar o decodificador de vídeo em rede instalado na rede.	Desligue as configurações de firewall no seu PC e, em seguida, pesquise o decodificador de vídeo em rede novamente.
Nada é exibido no monitor.	- Verifique se o monitor está conectado ao decodificador de vídeo em rede e se corresponde ao modo de saída. - Verifique se o monitor oferece suporte e corresponde à resolução de saída do decodificador de vídeo em rede.
O monitor não exibe nada além do logotipo e não muda para outra tela.	Se ao reiniciar o decodificador de vídeo em rede acontecer a mesma coisa, mantenha o botão [RESET] pressionado por aproximadamente 5 segundos para redefinir as configurações do decodificador de vídeo em rede.

OPEN SOURCE ANNOUNCEMENT

Some software components of this product incorporate source code covered under the BSD license as follows.

Component Name	License	License URL
lighttpd 1.4.25	BSD 2.0	http://www.opensource.org/licenses/bsd-license.html
librt 1.20	BSD 1.0	
Live555	GPL 2.1	http://www.opensource.org/licenses/LGPL-2.1

lighttpd is a secure, fast, compliant, and very flexible web-server that has been optimized for high-performance environments. It has a very low memory footprint compared to other webservers and takes care of cpu-load. Its advanced feature-set (FastCGI, CGI, Auth, Output-Compression, URL-Rewriting and many more) make lighttpd the perfect webserver-software for every server that suffers load problems.

Simple Network Management Protocol (SNMP) is an Internet-standard protocol for managing devices on IP networks. It is used mostly in network management systems to monitor the devices attached to the network for conditions that need administrative attention. Net-SNMP is a suite of applications used to implement SNMP v1, SNMP v2c and SNMP v3 using both IPv4 and IPv6.

For more additional information, send email to help.cctv@samsung.com.

Copyright (C) 2004, Kneschke, incremental

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 'incremental' nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

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

Copyright (c) 1998-2001 University College London

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, is 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 acknowledgement: This product includes software developed by the Computer Science Department at University College London.
4. Neither the name of the University nor of the Department may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHORS AND CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS 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.

LICENSE

Various copyrights apply to this package, listed in various separate parts below. Please make sure that you read all the parts.

Part 1: CMU/UCD copyright notice: (BSD like)

Copyright 1989, 1991, 1992 by Carnegie Mellon University
Derivative Work - 1996, 1998-2000
Copyright 1996, 1998-2000 The Regents of the University of California

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 appears in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of CMU and The Regents of the University of California not be used in advertising or publicity pertaining to distribution of the software without specific written permission.

CMU AND THE REGENTS OF THE UNIVERSITY OF CALIFORNIA DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL CMU OR THE REGENTS OF THE UNIVERSITY OF CALIFORNIA BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM THE 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.

Part 2: Networks Associates Technology, Inc copyright notice (BSD)

Copyright (c) 2001-2003, Networks Associates Technology, Inc

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 Networks Associates Technology, 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 HOLDERS 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.

Part 3: Cambridge Broadband Ltd. copyright notice (BSD)

Portions of this code are copyright (c) 2001-2003, Cambridge Broadband Ltd.

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 Cambridge Broadband Ltd. 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 HOLDER "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 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.

Part 4: Sun Microsystems, Inc. copyright notice (BSD)

Copyright © 2003 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A.

All rights reserved.

Use is subject to license terms below. This distribution may include materials developed by third parties. Sun, Sun Microsystems, the Sun logo and Solaris are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. 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 Sun Microsystems, 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 HOLDERS 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.

Part 5: Sparta, Inc copyright notice (BSD)

Copyright (c) 2003-2009, Sparta, Inc

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 Sparta, 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 HOLDERS 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.

Part 6: Cisco/BUPTNIC copyright notice (BSD)

Copyright (c) 2004, Cisco, Inc and Information Network Center of Beijing University of Posts and Telecommunications.

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 Cisco, Inc, Beijing University of Posts and Telecommunications, nor the names of their 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 HOLDERS 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.

Part 7: Fabasoft R&D Software GmbH & Co KG copyright notice (BSD)

Copyright (c) Fabasoft R&D Software GmbH & Co KG, 2003
oss@fabasoft.com

Author: Bernhard Penz

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 Fabasoft R&D Software GmbH & Co KG or any of its subsidiaries, brand or product names 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 HOLDER "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 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.

Part 8: Apple Inc. copyright notice (BSD)

Copyright (c) 2007 Apple Inc.

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. Neither the name of Apple Inc. ("Apple") 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 APPLE AND ITS 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 APPLE 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.

Part 9: ScienceLogic, LLC copyright notice (BSD)

Copyright (c) 2009, ScienceLogic, LLC

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 ScienceLogic, LLC 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 HOLDERS 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.

GPL/LGPL SOFTWARE LICENSE

The software included in this product contains copyrighted software that is licensed under the GPL/LGPL. You may obtain the complete Corresponding Source code from us for a period of three years after our last shipment of this product by sending email to help.cctv@samsung.com

If you want to obtain the complete Corresponding Source code in the physical medium such as CD-ROM, the cost of physically performing source distribution might be charged.

- GPL S/W
 - Base Kernel, Busybox, Sysvinit, dosfstools
 - LGPL S/W
 - glibc, Inetutils
-

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C)1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

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

Preamble

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

This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors chose to using it. (Some other Free Software Foundation software is covered by the GNU Lesser 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.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

Version 2, June 1991 Copyright (C) 1989, 1991 Free Software Foundation, Inc. 51 Franklin St

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License.

The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law : that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

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

1. 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.

2. 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.

- 3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following :
 - a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange ; or,
 - b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange ; or,
 - c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b. above.)

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

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

- 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. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "ASIS" 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 DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

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

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

one line to give the program's name and an idea of what it does.

Copyright (C)yyyyy name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

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

Also add information on how to contact you by electronic and paper mail. If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69,

Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO

WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

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

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

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

signature of Ty Coon, 1 April 1989 Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the **GNU Lesser General Public License** instead of this License.

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

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.

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 (if 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:

- The work must carry prominent notices stating that you modified it, and giving a relevant date.
- 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".
- 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.

- 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:

- 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.
- 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.
- 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.
- 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.
- 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
- b) 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 OF TERMS AND CONDITIONS

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301

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

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

Preamble

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

This license, the Lesser General Public License, applies to some specially designated software packages—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

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

We protect your rights with a two-step method: (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.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

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

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

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

a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful. (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.) These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the Library".

The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that

(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/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

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

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

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT

NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

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

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

Copyright (C) year name of author

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

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

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Also add information on how to contact you by electronic and paper mail.

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

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

signature of Ty Coon, 1 April 1990 Ty Coon, President of Vice.

OpenSSL LICENSE

Copyright (c) 1998-2006 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 BY THE OpenSSL PROJECT "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This product includes cryptographic software written by Eric Young (ey@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

Original SSLeay License

Copyright (C) 1995-1998 Eric Young (ey@cryptsoft.com)
All rights reserved. This package is an SSL implementation written by Eric Young (ey@cryptsoft.com). The implementation was written so as to conform with Netscapes SSL. This library is free for commercial and non-commercial use as long as the following conditions are adhered to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).

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

documentation (online or textual) provided with the package. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement: "This product includes cryptographic software written by Eric Young (ey@cryptsoft.com)" The word 'cryptographic' can be left out if the routines from the library being used are not cryptographic related :-).
4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement: "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

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

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



Este equipamento foi testado e constatado como atendendo os limites para um dispositivo digital Classe A, de acordo com a seção 15 das Regras FCC. Estes limites se destinam a fornecer uma proteção razoável contra interferência prejudicial quando o equipamento for operado em uma ambiente comercial. Este equipamento gera, utiliza e pode irradiar energia de radiofrequência e, se não instalado e utilizado de acordo com o manual de instruções poderá causar interferência prejudicial às comunicações de rádio. A operação deste equipamento em uma área residencial irá provavelmente causar interferência prejudicial e neste caso o usuário será solicitado a corrigir a interferência às suas próprias expensas.



A Samsung Techwin respeita e preserva o meio ambiente em todos os estágios de produção e toma várias medidas para oferecer aos clientes aparelhos mais ecológicos.

A marca Eco representa a determinação da Samsung Techwin em criar aparelhos ecológicos e indica que o aparelho satisfaz a diretiva RoHS da União Europeia.



Eliminação correta deste produto (Lixo de equipamentos elétricos e eletrônicos)

(Aplicável na União Europeia e em outros países europeus com sistemas de coleta seletiva.)

A presença desta marca no produto ou na respectiva literatura indica que ele não deve ser eliminado com outros resíduos domésticos no fim da sua vida útil. Para evitar possíveis danos ao ambiente ou à saúde causados pela eliminação não controlada de lixo, separe-o de outros tipos de lixo e recicle-o de forma adequada para promover a reutilização sustentável de recursos materiais.

Os usuários domésticos devem entrar em contato com o comerciante do qual adquiriram este produto, ou com o órgão governamental local, para obter detalhes e explicações sobre como garantir que este produto seja reciclado de modo seguro.

Os usuários comerciais devem entrar em contato com os respectivos fornecedores e verificar os termos e condições do contrato de compra. O produto não pode ser misturado a outros lixos comerciais para eliminação.



Eliminação correcta das baterias existentes neste produto

(Aplicável na União Europeia e noutros países europeus com sistemas de recolha de baterias separados.)

Esta marca, apresentada na bateria, manual ou embalagem, indica que as baterias existentes neste produto não devem ser eliminadas juntamente com os resíduos domésticos indiferenciados no final do seu período de vida útil. Onde existentes, os símbolos químicos Hg, Cd ou Pb indicam que a bateria contém mercúrio, cádmio ou chumbo acima dos níveis de referência indicados na Directiva CE 2006/66. Se as baterias não forem correctamente eliminadas, estas substâncias poderão ser prejudiciais para a saúde humana ou para o meio ambiente.

Para proteger os recursos naturais e promover a reutilização dos materiais, separe as baterias dos outros tipos de resíduos e recicle-as através do sistema gratuito de recolha local de baterias.



REDE DE VENDAS

SAMSUNG TECHWIN CO., LTD.

Samsungtechwin R&D Center, 701, Sampyeong-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea, 463-400
TEL : +82-70-7147-8740~60 FAX : +82-31-8018-3745

SAMSUNG TECHWIN AMERICA Inc.

100 Challenger Rd. Suite 700 Ridgefield Park, NJ 07660
Toll Free : +1-877-213-1222 Direct : +1-201-325-6920
Fax : +1-201-373-0124
www.samsungcctvusa.com

SAMSUNG TECHWIN EUROPE LTD.

Samsung House, 1000 Hillswood Drive, Hillswood Business
Park Chertsey, Surrey, UNITED KINGDOM KT16 0PS
TEL : +44-1932-45-5300 FAX : +44-1932-45-5325

www.samsungtechwin.com
www.samsungsecurity.com
www.samsungipolis.com