

## Hinweis

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### **Sicherheitshinweis – Port Forwarding NICHT benutzen**

eQ-3 schätzt Port Forwarding allgemein als Sicherheitslücke ein und warnt bereits seit 2015 vor dessen Nutzung mit der CCU.

Sollten Sie Port Forwarding mit der CCU nutzen, empfiehlt Ihnen eQ-3 dringend die Konfiguration zu ändern.

Alternativen sind unter anderem:

- Nutzung einer VPN Lösung, z.B. in Verbindung mit einem DSL / Kabel-Router (wie beispielsweise Fritz!Fernzugriff von AVM)
- Nutzung einer Fernzugangs-Lösung zur CCU, z.B. Cloudmatic von Easy Smarthome

Falls Sie hierzu weitere Fragen haben, kontaktieren Sie uns hierfür unter [support@eq-3.de](mailto:support@eq-3.de)

## Changelog

### 3.47.15

#### Fehlerbehebungen

[HMCCU-360]	Die Daten der Logikschicht wurden beim Abmelden nicht mehr gespeichert.
[HMCCU-357]	Funk-Schaltaktoren mit Leistungsmessung (HM-ES-PMSw1-PI*) zeigten beim Energie-Zähler „NaN“ anstatt des Messwertes an.
[HMCCU-354]	Bei dem HM-MOD-EM-8Bit Modul (Version 1.0) wurden die Kanalparameter des Kanal 3 in der Gerätekonfiguration nicht mehr dargestellt.
[HMCCU-333]	Die Duty-Cycle Anzeige zeigte unter Umständen falsche Werte, wenn weitere Gateways im System vorhanden sind.

### 3.47.10

#### Geräteintegration

[HMCCU-152]	Integration HmIP-ASIR-2
[HMCCU-151]	Integration Homematic IP Wired Wandthermostat mit Luftfeuchtigkeitssensor, HmIPW-WTH
[HMCCU-147]	Integration Homematic IP Wired Temperatur- und Luftfeuchtigkeitssensor mit Display – innen, HmIPW-STHD
[HMCCU-146]	Integration Homematic IP Wired Temperatur- und Luftfeuchtigkeitssensor – innen, HmIPW-STH
[HMCCU-28]	Integration Homematic IP Fußbodenheizungsaktor – 12-fach, motorisch, HmIP-FALMOT-C12

- [HMCCU-21] Integration folgender Homematic IP Wired FAL-Varianten:
- HmIPW-FAL24-C6
  - HmIPW-FAL230-C6
  - HmIPW-FAL24-C10
  - HmIPW-FAL230-C10
- [HMCCU-155] Integration Homematic IP Multi IO Modulplatine - 4x4, HmIP-MIO16-PCB (ELV Bausatz)

### Fehlerbehebungen

- [HMCCU-317] Kanäle der virtuellen Fernbedienung (HmIP-RCV-50) ließen sich nicht aus Räumen und Gewerken löschen.
- [HMCCU-296] HmIP-MP3P - Bei einer Verknüpfung mit einem Windmesser wurde u. U. fälschlicherweise die Farbauswahl anstatt der Soundauswahl angeboten.
- [HMCCU-294] Die Beschriftung des Buttons „Geräte-Firmware“ auf der Seite „Einstellungen“ wurde in „Geräte-Firmware-Übersicht“ korrigiert.
- [HMCCU-285] Verhindern von Remote-HTML-Injections bei der Abfrage von Addon-Versionsnummern.
- [HMCCU-274] Unter bestimmten Voraussetzungen konnte eine SessionID ohne Login erzeugt werden.
- [HMCCU-273] Die angezeigte Regenmenge für den HmIP-SWO-\* verdoppelte sich nach einem Neustart der CCU.

### Erweiterungen / Verbesserungen

- [HMCCU-261] JSON-API: Berechtigungslevel für Zugriff auf get-/setMetadata Aufrufe eingeführt:  
setMetadata Aufrufe: ADMIN  
getMetadata Aufrufe GUEST
- [HMCCU-259] HmIP-MP3P - Dialog zur einfachen Verwendung von Playlisten innerhalb von Programmen hinzugefügt.
- [HMCCU-252] Web Server der CCU schicken HTTP-Header „Server“ nicht mehr mit.
- [HMCCU-248] Bei Direktverknüpfungen zwischen Bewegungsmeldern und Schalt-/Dimmaktoren schaltet sich ein helligkeitsabhängig geschalteter Aktor nicht mehr ungewollt selbstständig aus, obwohl noch Bewegung detektiert wird.
- [HMCCU-213] HM-ES-TX-WM - Geändertes Verhalten mit der demnächst erhältlichen Firmware > 2.x.y Integration SML-Protokoll, neuer Konfigurationsparameter „DZG-Kompatibilitätsmodus“. Die Unterstützung von IR-, Gas- und LED-Sensoren wurde entfernt. Es wird ausschließlich der ES-IEC Sensor unterstützt.
- [HMCCU-163] Neue Funktionalität für HmIP-MIOB (Wochenprogramm)
- [HMCCU-162] Neue Funktionalität für HmIP-FAL (MIOB-Umschaltung Heizen/Kühlen)
- [HMCCU-150] Automatische Übertragung der Standortdaten an neu angelegte HmIP-Geräte für Astro-Funktionen.  
Bei Änderung der Standortdaten besteht nun die Möglichkeit der Übertragung an alle dem System bekannten HmIP-Geräte.
- [HMCCU-17] Ergänzung der HTTP-Header des lighttpd Web Servers um einige sicherheitsrelevante Felder.

## 3.45.7

### Geräteintegration

- [HMCCU-130] Integration HmIP-WRCD (Homematic IP Wandtaster mit Statusdisplay)
- [HMCCU-15] Integration HmIP-SCI (Homematic IP Kontakt-Schnittstelle)

### Fehlerbehebungen

- [HMCCU-209] Konfigurationsparameter der Heizungsgruppen wurden nicht dargestellt.
- [HMCCU-188] Zusatzsoftware konnte nicht installiert oder aktualisiert werden.

### 3.45.5

#### Geräteintegration

[HMCCU-20] Integration HmIP-ASIR-O (Homematic IP Alarmsirene – außen)

#### Erweiterungen / Verbesserungen

- [HMCCU-194] HmIP-eTRV/eTRV-2/eTRV-C - Innerhalb von Programmen kann nun auf den Ventilstatus reagiert werden.
- [HMCCU-193] Zeitsynchronisierung des Funk-Koprozessors wird jetzt nur noch alle 6 Stunden anstatt alle 30 Minuten aufgerufen. Dadurch wird der Funkverkehr verringert.
- [HMCCU-100] HmIP-eTRV/eTRV-2/eTRV-C - mit der aktuellsten Firmware dieser Geräte steht nun ein Kanalparameter zur Einstellung des Ultra-Leise-Betriebs zur Verfügung.
- [HMCCU-16] Unterstützung von AutoIP.

#### Fehlerbehebungen

- [HMCCU-208] Bei der Verwendung von Zeitspannen über einen Tageswechsel hinweg, konnte es im Zusammenhang mit der Zeitumstellung bei der Ausführung von Programmen zu Problemen kommen.
- [HMCCU-186] HmIP-BSL - Der Schaltzustand konnte im Wochenprogramm nicht verwendet werden.
- [HMCCU-144] HmIP-FC1/6 - Die Kanalparameter standen nicht zur Verfügung
- [HMCCU-137] Die Ein-/Ausschaltdauer innerhalb von Easymode-Profilen kann nun nicht mehr gleichzeitig auf ‚Nicht aktiv‘ gesetzt werden.
- [HMCCU-136] Der Gerätefilter der Gerätliste lieferte bei den Einstellungen „BidCos-RF/Wired“ kein Resultat.
- [HMCCU-135] Ein Problem beim Löschen direkter Verknüpfungen mit HmIP-RCV-50 (virtuelle Fernbedienung für HmIP) wurde behoben.
- [HMCCU-131] Fehler im Zusammenhang mit UPnP behoben

### 3.43.16

#### Fehlerbehebungen

[HMCCU-179] Buffer Overflow im ReGa Web Server

Im ReGa Web Server gibt es eine Pufferüberlauf- / Buffer Overflow Schwachstelle. Bei dieser können in einen Datenbereich (Array) mit fester Größe im Stack Daten beliebiger Länge geschrieben. Durch „bösesartiges“ Schreiben von Daten, ist es prinzipiell möglich, die Rücksprungadresse im Stack zu überschreiben und den Rücksprung in den Bereich der geschriebenen Daten zu lenken. Hierdurch könnte Schadcode ausgeführt werden. Aktuell ist jedoch kein Exploit bekannt, der dies für einen Angriff auf die CCU ausnutzt. Der Webserver-Prozess kann aber zum Absturz gebracht werden. Die Schwachstelle des Pufferüberlauf- / Buffer Overflow wurde geschlossen. Damit kann hier kein Schadcode mehr eingeschleust werden.

[HMCCU-154] Authentication Bypass durch User „RemoteAPI“

Über einen in der Logikschicht der CCU existierenden internen Benutzer „RemoteAPI“ kann eine gültige Sitzung / SessionID erzeugt werden, die die Basis für weiterführende Angriffsszenarien darstellt. Die Erzeugung einer Session für den internen Benutzer wird jetzt unterbunden.

[HMCCU-154] Fehler im Session Handling

Beim Ausloggen / Abmelden eines Benutzers aus der CCU WebUI wird die Sitzung / SessionID durch ReGa in bestimmten Situationen nicht sofort invalidiert. Dadurch kann die SessionID unter diesen Umständen zeitweilig für einige Aufrufe weiter verwendet werden. Die SessionID wird jetzt sofort beim Abmelden eines Benutzers invalidiert. Eine weitere Verwendung ist damit nicht mehr möglich.

[HMCCU-191]

Remote Execution

Unter bestimmten Umständen war eine Remote Execution von Tcl Scripten über das Heim-LAN möglich.

Hier wurde ein Fehler in einem Script für die Administration behoben.

[HMCCU-143]

Schreiben beliebiger Daten

Unter bestimmten Umständen war das Schreiben beliebiger Daten möglich.

Hier wurde ein Fehler in einem Script für die Administration behoben.

Risiko:

Folgende Angriffsmöglichkeiten bestanden zuvor bei diesen Fehlern

- aus dem Internet: Wenn Port Forwarding eingerichtet war (siehe Warnung oben)

- aus dem LAN: Wenn unsichere / nicht vertrauenswürdige Systeme Zugang zum LAN haben

### 3.43.15

#### Geräteintegration

[HMCCU-6]

Integration HmIP-RCV-50 (virtuelle Fernbedienung für HmIP)

[HMCCU3-1834]

Integration HmIP-FCI6 (Homematic IP Kontakt-Schnittstelle Unterputz – 6-fach)

[HMCCU3-1502]

Integration HmIPW-DRD3 (Homematic IP Wired Dimmaktor – 3-fach)

[HMCCU3-1501]

Integration HmIPW-DRS4 (Homematic IP Wired Schaltaktor – 4-fach)

[HMCCU3-1500]

Integration HmIPW-DRS8 (Homematic IP Wired Schaltaktor – 8-fach)

[HMCCU3-1499]

Integration HmIPW-FIO6 (Homematic IP Wired IO Modul Unterputz – 6-fach)

[HMCCU3-1498]

Integration HmIPW-DRI16 (Homematic IP Wired Eingangsmodul – 16-fach)

[HMCCU3-1497]

Integration HmIPW-DRI32 (Homematic IP Wired Eingangsmodul – 32-fach)

[HMCCU3-1496]

Integration HmIPW-DRBL4 (Homematic IP Wired Jalousieaktor – 4-fach)

[HMCCU3-1495]

Integration HmIPW-DRAP (Homematic IP Wired Access Point)

[HMCCU3-1375]

Integration HmIP-WT (Homematic IP Wandthermostat)

[HMCCU-24]

Integration HmIP-ASIR-B1

[HMCCU-9]

Integration Hm-RC-2-PBU-FM-2 (Funk-Sender 2-fach für Markenschalter, Unterputzmontage)

#### Erweiterungen / Verbesserungen

[HMCCU3-2116]

Konfig.-Parameter „Optimum Start/Stop“ für HmIP-WT/WTH/WTH2 hinzugefügt.

[HMCCU3-2115]

Konfig.-Parameter „Ventil-Offset“ für HmIP-eTRV/-2/-B/-C hinzugefügt.

[HMCCU3-1926]

IP-Adressen (IPv4 / IPv6) unter Netzwerkeinstellungen werden auf Plausibilität geprüft.

[HMCCU-120]

Für lokale Verbindungen (localhost) wird keine HTTP Basic-Authentifizierung mehr durchgeführt.

[HMCCU-109]

Bezeichnung Relais in Ausgang geändert

(z. B. „Statusmitteilung Relais“ ist nun „Statusmitteilung Ausgang“)

[HMCCU-74]

Der Button Geräte-Firmware springt nun zur neuen Übersichtsseite der Gerätefirmware.

[HMCCU-8]

Das Gerätefirmwareupdate wird nur noch über die „Geräte-Firmware Übersicht“ durchgeführt.

Der entsprechende Button auf der Gerätekonfigurationsseite wurde entfernt.

### Fehlerbehebungen

[HMCCU3-2114]	HmIP-BSL - die obere Gerätetaste stand u. U. für Programme nicht zur Verfügung.
[HMCCU3-2104]	HmIP-FBL/BBL - fehlende Lamellenposition im Wochenprogramm hinzugefügt.
[HMCCU3-2103]	HmIP-FBL/BBL - die Lamellenposition ließ sich nicht über die WebUI setzen.
[HMCCU3-2095]	Das Konfigurationsfenster des RGBW-Controller in Programmen wiederhergestellt.
[HMCCU3-2093]	HmIP-FCI1/6 - fehlende Easymodes hinzugefügt.
[HMCCU3-2088]	Die Funktion „Aktion bei Spannungszufuhr“ für Homematic IP-MP3P und Dimmaktoren war fehlerhaft.
[HMCCU3-2087]	HmIP-FCI1/6 - Parameter „Eventverzögerung“ entfernt.
[HMCCU3-1837]	Die „Geräte-Firmware Übersicht“ wurde bei vorhandenem Philips HUE Gateway nicht korrekt geladen.
[HMCCU3-1467]	Der CCU-Wert des Energiezählers verdoppelte sich nach einem Reboot der CCU.
[HMCCU-153]	Unberechtigtes Login durch Manipulation mit der SessionID (Security Update des Web Session Managements der CCU)

Durch das Aufrufen der WebUI wird bereits vor dem Login eines Benutzers eine Sitzung / SessionID erzeugt. Diese kann für weiterführende Angriffe missbraucht werden. In der Problembehebung wird die Erzeugung einer Sitzung / SessionID ohne vorherigen Login verhindert

### Risiko:

Angriffsmöglichkeiten bestanden  
- aus dem Internet: Wenn Port Forwarding eingerichtet war (siehe Warnung oben)  
- aus dem LAN: Wenn unsichere / nicht vertrauenswürdige Systeme Zugang zum LAN haben

[HMCCU-97]	HmIP-PCBS2 – Wohnort (Längen-/Breitengrad) ist jetzt einstellbar. Die Angabe wird für eine korrekte Ausführung des Wochenprogramms benötigt.
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### 3.41.11

**ACHTUNG: Beachten Sie die Hinweise zur Version 3.41.7.**

### Fehlerbehebungen

- Ereignisse wurden in einigen Fällen doppelt verarbeitet, wodurch u. a. Programme doppelt ausgeführt wurden.
- Neue Version von Mediola NEO SERVER (Version 2.3.4) sowie Korrekturen an den Firewall-Regeln für Mediola NEO SERVER.
- Unter gewissen Voraussetzungen konnte der Aufruf einiger Seiten der Web-Oberfläche mehrere Minuten dauern.
- Texte zum USB-Stick zur Messdatenspeicherung wurden korrigiert.
- HmIP-PSM: In Direktverknüpfungen steht der Entscheidungswert des Kanal 7 jetzt zur Verfügung. Beim Kanal 6 (Messwertkanal) kann der Mindestsendeabstand auf über 30 Sekunden eingestellt werden.

### 3.41.7

**ACHTUNG: Dieses Update enthält relevante Anpassungen der Sicherheitseinstellungen. Diese können sich auf die Funktionen von Zusatzsoftware auswirken. Darunter fallen erweiterte Firewall-Einstellungen und die obligatorische Vergabe eines Anmeldepassworts.**

**Erstellen Sie ein Backup der Zentrale, bevor Sie dieses Update installieren!**

- [HMCCU3-1860] - Integration HmIP-RCB1 (Homematic IP Fernbedienung mit Montagegurt – 1-Kanal)
- [HMCCU3-1750] - Integration HmIP-FCI1 (Homematic IP Kontakt-Schnittstelle Unterputz – 1-fach)
- [HMCCU3-1718] - Integration HmIP-eTRV-C (Homematic IP Heizkörperthermostat – kompakt)
- [HMCCU3-1383] - Integration HmIP-MP3P (Homematic IP MP3 Kombisignalgeber)

#### Erweiterungen / Verbesserungen zur CCU3

[HMCCU3-1653] - Einrichtungswizard bei Erstinbetriebnahme

Nach der Installation dieses Updates

- wird jeder Benutzer ohne Passwort aufgefordert, ein Passwort zu vergeben.
- wird ein Administrator zur Überprüfung der Sicherheitseinstellungen aufgefordert.

Das Blinken der Info LED bei Service- u. Alarmmeldungen kann deaktiviert werden.  
(Einstellung unter Systemsteuerung/Allgemeine Einstellungen)

### 3.37.8

Initiale Firmware Version der CCU3

Erweiterungen / Verbesserungen zur CCU2

- Neue Seite mit übersichtlicher Darstellung der Firmware Versionen aller vorhandenen Geräte.
- Vorinstallierter NeoServer der Firma mediola.
- Änderungen an den Logikschicht-Varianten:
  - Die Version „Community“ der CCU2 heißt „Standard“ in der CCU3 (Default).
  - Die Version „Standard“ der CCU2 heißt „Kompatibilitätsmodus“ in der CCU3.
  - Die Version „Legacy“ der CCU2 wurde entfernt.

Hinweise

- Das Einspielen von CCU2 Backups auf die CCU3 ist möglich.

## Open-Source Licenses and Copyright-Statements

- [Licenses of software components used by CCU3](#)
  - [avahi 0.7](#)
  - [bluez5\\_utils 5.49](#)
  - [busybox 1.28.4](#)
  - [ca-certificates 20170717](#)
  - [c-ares 1.14.0](#)
  - [daemonize 1.7.8](#)
  - [D-Bus 1.12.6](#)
  - [DejaVu 2.37](#)
  - [dosfstools 4.1](#)
  - [e2fsprogs 1.44.2](#)
  - [eudev 3.2.5](#)
  - [expat 2.2.5](#)
  - [file 5.33](#)
  - [fontconfig 2.12.4](#)
  - [freetype 2.9](#)
  - [generic\\_raw\\_uart 6df728fd62f012b08574bf2729b7e4a035659871](#)
  - [glibc-2.27-57-g6c99e37f6fb640a50a3113b2dbec5d5389843c1e](#)
  - [libhttplib-v2.8.1](#)
  - [libical-1.0.1](#)
  - [liblockfile-1.09](#)

- [libnl-3.4.0](#)
- [libopenssl-1.0.2p](#)
- [libusb-1.0.22](#)
- [libusb-compat-0.1.5](#)
- [libuv-v1.22.0](#)
- [i2c-tools 4.0](#)
- [ifplugd 0.28](#)
- [netfilter/iptables 1.6.2](#)
- [irqbalance v1.0.9](#)
- [iw 4.14](#)
- [Zulu \(zulu8.31.1.122-jdk1.8.0\\_181-linux\\_aarch32hf\)](#)
- [kmod 24](#)
- [libcurl 7.61.1](#)
- [libdaemon 0.14](#)
- [liberation 2.00.1](#)
- [libevent 2.1.8-stable](#)
- [libffi 3.2.1](#)
- [glib2 2.56.1](#)
- [lighttpd 1.4.50](#)
- [linux-custom \(raspberrypi-kernel 1.20180417-1\)](#)
- [linux-firmware-8d69bab7a3da1913113ea98cefb73d5fa6988286](#)
- [linux-headers-custom](#)
- [lockfile-progs 0.1.17](#)
- [logrotate 3.13.0](#)
- [lz4 v1.8.2](#)
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- [nodejs 8.11.4](#)
- [ntfs 3g-2017.3.23](#)
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- [openvpn 2.4.6](#)
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- [pcre 8.42](#)
- [perl 5.26.1](#)
- [popt 1.16](#)
- [psplash-5b3c1cc28f5abdc2c33830150b48b278cc4f7bca](#)
- [readline 7.0](#)
- [rng-tools 5](#)
- [rpi-bt-firmware-b5307312a172c8d87d44f6df32f5e24f1c19770e](#)
- [rpi-firmware-1.20180924](#)
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- [tzdata-2018c](#)
- [tzdata-2018c](#)
- [uboot 2018.05](#)
- [uboot-tools-2018.07](#)
- [usbmount 0.0.22](#)

- [util-linux-2.32.1](#)
- [wget 1.19.5](#)
- [wpa\\_supplicant 2.6](#)
- [xinetd 2-3-15](#)
- [libzlib-1.2.11](#)
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- [xmlparser](#)
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## avahi 0.7

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## daemonize 1.7.8

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## freetype 2.9

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## 0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream

is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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## 1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules//build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

CONFIG_HOTPLUG	- Support for hot-pluggable devices
CONFIG_MODULES	- Enable loadable module support
CONFIG_KMOD	- Automatic kernel module loading
CONFIG_FW_LOADER	- Hotplug firmware loading support
CONFIG_I2C	- I2C support
CONFIG_VIDEO_DEV	- Video For Linux
CONFIG_SOUND	- Sound card support
CONFIG_SND	- Advanced Linux Sound Architecture
CONFIG_USB	- Support for Host-side USB
CONFIG_USB_DEVICEFS	- USB device filesystem
CONFIG_USB_EHCI_HCD	- EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

CONFIG_SND_MIXER_OSS	- OSS Mixer API
CONFIG_SND_PCM_OSS	- OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from .

Hotplugging is used for loading firmware into the Cypress EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

## 2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in `"/lib/modules//extra"` and the firmware files will be placed in the appropriate hotplug firmware directory, usually `/lib/firmware`. In addition, USB maps and scripts will be placed in `/etc/hotplug/usb` to enable `fxload` to initialize the EZ-USB control chip when the device is connected.

## 3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the `"force_band"` parameter to the `wis-sony-tuner` module:

TV band	force_band
-----	-----
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the `"force_band"` parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and

three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force\_mpx\_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
-----	-----	-----
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force\_mpx\_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force\_band" or "force\_mpx\_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

#### 4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

## 5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

- \* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.
- \* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.
- \* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.
- \* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.
- \* Video parameters such as format and input port may not be changed while the encoder is active.
- \* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.
- \* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC\_S\_COMP\_PARAMS, GO7007IOC\_G\_COMP\_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC\_G\_COMP\_PARAMS ioctl with a pointer to a struct go7007\_comp\_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007\_comp\_params and call the GO7007\_IOC\_S\_COMP\_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007\_comp\_params:

__u32	The maximum number of frames in each
gop_size	Group Of Pictures; i.e. the maximum
	number of frames minus one between
	each key frame.

<pre>__u32 max_b_frames</pre>	<p>The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)</p>
<pre>enum go7007_aspect_ratio aspect_ratio</pre>	<p>The aspect ratio to be encoded in the meta-data of the compressed format.</p> <p>Choices are:</p> <pre>GO7007_ASPECT_RATIO_1_1 GO7007_ASPECT_RATIO_4_3_NTSC GO7007_ASPECT_RATIO_4_3_PAL GO7007_ASPECT_RATIO_16_9_NTSC GO7007_ASPECT_RATIO_16_9_PAL</pre>
<pre>__u32 flags</pre>	<p>Bit-wise OR of control flags (below)</p>

Flags in struct go7007\_comp\_params:

<pre>GO7007_COMP_CLOSED_GOP</pre>	<p>Only produce self-contained GOPs, used to produce streams appropriate for random seeking.</p>
<pre>GO7007_COMP_OMIT_SEQ_HEADER</pre>	<p>Omit the stream sequence header.</p>

GO7007IOC\_S\_MPEG\_PARAMS, GO7007IOC\_G\_MPEG\_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2\_PIX\_FMT\_MPEG.

To query the current parameters, call the GO7007IOC\_G\_MPEG\_PARAMS ioctl with a pointer to a struct go7007\_mpeg\_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007\_mpeg\_params and call the GO7007\_IOC\_S\_MPEG\_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007\_mpeg\_params:

<pre>enum go7007_mpeg_video_standard mpeg_video_standard</pre>	<p>The MPEG video standard in which to compress the video.</p>
--	--

Choices are:

```
GO7007_MPEG_VIDEO_MPEG1
GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4
```

<pre>__u32 flags</pre>	<p>Bit-wise OR of control flags (below)</p>
------------------------	---

<pre>__u32 pali</pre>	<p>The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream.</p>
-----------------------	--



Not valid for MPEG1.

Choices for MPEG2 are:

GO7007\_MPEG2\_PROFILE\_MAIN\_MAIN

Choices for MPEG4 are:

GO7007\_MPEG4\_PROFILE\_S\_L0  
GO7007\_MPEG4\_PROFILE\_S\_L1  
GO7007\_MPEG4\_PROFILE\_S\_L2  
GO7007\_MPEG4\_PROFILE\_S\_L3  
GO7007\_MPEG4\_PROFILE\_ARTS\_L1  
GO7007\_MPEG4\_PROFILE\_ARTS\_L2  
GO7007\_MPEG4\_PROFILE\_ARTS\_L3  
GO7007\_MPEG4\_PROFILE\_ARTS\_L4  
GO7007\_MPEG4\_PROFILE\_AS\_L0  
GO7007\_MPEG4\_PROFILE\_AS\_L1  
GO7007\_MPEG4\_PROFILE\_AS\_L2  
GO7007\_MPEG4\_PROFILE\_AS\_L3  
GO7007\_MPEG4\_PROFILE\_AS\_L4  
GO7007\_MPEG4\_PROFILE\_AS\_L5

Flags in struct go7007\_mpeg\_params:

GO7007\_MPEG\_FORCE\_DVD\_MODE Force all compression parameters and  
bitrate control settings to comply  
with DVD MPEG2 stream requirements.  
This overrides most compression and  
bitrate settings!

GO7007\_MPEG\_OMIT\_GOP\_HEADER Omit the GOP header.

GO7007\_MPEG\_REPEAT\_SEQHEADER Repeat the MPEG sequence header at  
the start of each GOP.

GO7007IOC\_S\_BITRATE, GO7007IOC\_G\_BITRATE

These ioctls are used to set and query the target bitrate value for the  
compressed video stream. The bitrate may be selected by storing the  
target bits per second in an int and calling GO7007IOC\_S\_BITRATE with a  
pointer to the int. The bitrate may be queried by calling  
GO7007IOC\_G\_BITRATE with a pointer to an int where the current bitrate  
will be stored.

Note that this is the primary means of controlling the video quality  
for all compression modes, including V4L2\_PIX\_FMT\_MJPEG. The  
VIDIOC\_S\_JPEGCOMP ioctl is not supported.

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### Installing the WIS PCI Voyager Driver

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The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x  
kernel source tree before compiling the driver. These patches update the  
in-kernel SAA7134 driver to the newest development version and patch bugs  
in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and  
applied in the order listed:

<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner>  
<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2>

<http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg>  
<http://dl.bytesex.org/patches/2.6.11-2/saa7134-update>

The following patches are included with this SDK and can be applied in any order:

```
patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff
```

Check to make sure the CONFIG\_VIDEO\_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

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RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

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Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE\_UDEV=n". To force the use of udev, run "make install USE\_UDEV=y".
- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.
- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.
- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.
- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews to Devin Heitmueller on July 1, 2009.

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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares to Devin Heitmueller [dheitmueller@linuxtv.org](mailto:dheitmueller@linuxtv.org) on July 25, 2012.

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2. [2]Mark Andrews Leitch atomic clock controller
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## [pcre 8.42](#)

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sub-directories. The header files in the include sub-directory and the example
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## uboot 2018.05

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## [uboot-tools-2018.07](#)

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

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

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```
#####  
# cgi.tcl - routines for writing CGI scripts in Tcl  
# Author: Don Libes , January '95  
# Minor changes by Lars Reemts, eQ-3  
# These routines implement the code described in the paper  
# "Writing CGI scripts in Tcl" which appeared in the Tcl '96 conference.  
# Please read the paper before using this code.  The paper is:  
# http://expect.nist.gov/doc/cgi.pdf  
# F. Werner:  
# add "charset=iso-8859-1" to header Content-Type
```

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Copyright:

```
Kanryu KATO  
# tmpl_parser.tcl  
#  
# Tcl embeddedd script parser(a template engine)  
#  
# This module converts Tcl embedded scripts into a Tcl normal script(parser),  
# after you just have to do eval command for the generated parser.  
#  
# Copyright (c) 2007 by Kanryu KATO  
# licensed on Tcl License.  
#  
# Modified by F. Werner (eQ-3 Entwicklung GmbH):
```

# - require Tcl 8.2 instead of 8.3

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(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.)

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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.

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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.

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Ty Coon, President of Vice

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(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.

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- 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.
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