

## 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 Connect

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

## Changelog

3.69.6

### Known Bugs

[HMCCU-1142]

Das Homematic IP DALI Gateway zeigt bei 4-kanaligen DALI Leuchten (z. B. RGBW) unter Status und Bedienung kein Control an. Wird in der kommenden Version behoben.

### Fehlerbehebungen

[HMCCU-1116]

HmIP-SWD - Innerhalb von Programmen wurde der Parameter „Feuchtigkeit erkannt: Ja“ falsch benannt.

[HMCCU-1104]

Fehler beim Übertragen des Parameters AutoCal des HmIP-SCTH230 behoben.

[HMCCU-1102]

Der Parameter „CO2-Konzentration“ wurde innerhalb von Programmen u. U. nicht korrekt dargestellt.

[HMCCU-1100]

Beim Aufruf einer Verknüpfung eines Level-Kanals mit eine HmIP-DRBL4 erschien eine leere Seite.

[HMCCU-1090]

Beim Aufruf einer Verknüpfung eines HmIP-SWD mit dem HmIP-MP3P erschien eine leere Seite.

[HMCCU-1088]

Innerhalb von Programmen wurde u. U. der Prozentwert 0 - 100% als 0.0 - 1.0 dargestellt.

[HMCCU-1082]

Der Konfigurationsparameter „DELAY-COMPENSATION“ wurde für den HmIP-FROLL entfernt, da er nicht unterstützt wird.

[HMCCU-1080]

Korrektur des Default-Wertes für den Parameter Condition\_Value\_HI beim HmIP-BROLL und HmIP-BBL.

[HMCCU-1076]

In bestimmten Fällen war es möglich mehrere Gerätefirmware Updates mit unterschiedlichem Versionstand für einen Gerätetyp auf die CCU hoch zu laden.

[HMCCU-1031]

Beim HmIP-SPI wurde die Berechnung des Helligkeitswertes korrigiert.

[HMCCU-1026]

Bei Wandthermostaten mit Hygrostatenfunktion wurde die aktuell gewählte Art der Zweipunktregelung falsch dargestellt.

## Erweiterungen / Änderungen

- [HMCCU-1085] Beim HmIP-eTRV-2 wurden einige Konfigurationsparameter hinzugefügt. (Entkalkungsfahrt, Fehlerposition u. Ventilöffnungsgrad.)
- [HMCCU-1071] Der Button „Access Points mit inkompatibler FW“ (Einstellungen → Systemsteuerung) wurde entfernt.
- [HMCCU-1061] Dateiberechtigungen wurden angepasst, so dass es jetzt möglich ist Public Keys für den SSH Zugriff in der Datei /root/.ssh/authorized\_keys abzulegen.
- [HMCCU-1054] Für HmIP-eTRVs wird jetzt nach einem Firmware Update automatisch die Adaptionsfahrt gestartet.
- [HMCCU-1033] Der Parameter INCLUSION\_UNSUPPORTED\_DEVICE wird innerhalb von Programmen nicht mehr angeboten.
- [HMCCU-1030] Beim HmIP-SPDR wird unter Status/Bedienung nicht mehr der Kanaltyp angezeigt, sondern der Gerätename.
- [HMCCU-1018] Die auf der CCU mit ausgeliefert HmIP-HAP und HmIPW-DRAP Firmware Update Dateien wurden entfernt.
- [HMCCU-1011] Der Konfigurationsparameter CHANNEL\_OPERATION\_MODE wurde für den HmIP-BBL und HmIP-FBL mit einer Firmware ab 1.10.2 hinzugefügt.
- [HMCCU-1002] Generierung von SSL Zertifikaten über update.homematic.com wurde aus der WebUI entfernt. Es ist weiterhin möglich über Systemsteuerung → Einstellungen → Netzwerkeinstellungen eigene Zertifikate hoch zu laden oder zu löschen.
- [HMCCU-983] Dem Toggle-Profil des Easymodes für Verknüpfungen mit dem HmIP-DLD wurde ein neuer Parameter hinzugefügt (Entriegeln / Öffnen).

## 3.67.10

### Fehlerbehebungen

- [HMCCU-1074] Korrektur der englischen Parameterbeschreibungen des HmIP-SWO-\*
- [HMCCU-1069] Fehler bei direkten Verknüpfungen des CH7 vom HmIP-PSM\*
- [HMCCU-1059] Gerätekonfiguration für Kanal 1 des HmIP-eTRV-B-2 korrigiert.
- [HMCCU-1058] Beim direkten Verknüpfungen zwischen HmIP-MOD-RC8 und HmIP-BBL bzw. HmIP-FBL wird nun das korrekte Standardprofil angezeigt.
- [HMCCU-1055] Gerätebilder in der Geräte-Firmware-Übersicht für einige Geräte korrigiert.
- [HMCCU-1053] Fehlende „Aus“-Funktion beim eTRV-C-2 hinzugefügt.
- [HMCCU-1027] Übersicht über die Tasterkanäle für HmIP-BS2 und ELV-SH-BS2 korrigiert.
- [HMCCU-1006] Darstellung der EULA angepasst
- [HMCCU-997] Beim HmIP-FWI konnte in Programmen „Code 21“ nicht ausgewählt werden.
- [HMCCU-996] In Diagrammen konnten keine negativen Werte unter „-100“ dargestellt werden
- [HMCCU-903] Beim Aufruf der XML-RPC Methode „reportValueUsage“ der LegacyAPI (HmIP) mit dem Parameterwert 0 wurde die direkte Verknüpfung zwischen Zentrale und Gerätekanal nicht gelöscht.

## Erweiterungen / Änderungen

- [HMCCU-1035] Für HmIP-eTRV-\* wird ab dieser CCU Version unter „Status und Bedienung“ im Fehlerfall der Status des Ventiltriebes angezeigt.
- [HMCCU-1021] Beim HmIP-BWTH wird unter Status und Bedienung für Kanal 10 „Heizventil geöffnet“ / „Heizventil geschlossen“ in Abhängigkeit der „NO / NC“ Einstellung gesetzt.
- [HMCCU-497] Für den CCU3 Coprozessor / RPI-RF-MOD gibt es jetzt ein Geräteobjekt. Damit können Statuswerte wie Duty Cycle und Carrier Sense dargestellt und in Programmen verwendet werden.

### 3.65.11

#### Fehlerbehebungen

- [HMCCU-1041] Korrektur des falschen Hysterese-Werts für die 2-Punkt Regelung nach HmIP-WTH-2 Update auf FW 2.8.2.
- [HMCCU-1048] Korrektur bei der Wiederaufnahme von pausierten Updates bei Event-Listnern

### 3.65.8

#### Fehlerbehebungen

- [HMCCU-1020] Korrekte Anzeige und Nutzung des HmIP-HAP-B1 (Silvercrest).
- [HMCCU-1016] Aktualisierung von ReGaHss auf R1.00.0388.0232. Behebt u.a. einen Fehler bei der Objekt-ID Vergabe.
- [HMCCU-1015] Falsche Anzeige des Parameters "Art der Zweipunktregelung" beim HmIP-WTH-2 korrigiert.
- [HMCCU-1012] Prüfung und ggf. Korrektur der werksseitigen SSH Konfiguration.
- [HMCCU-1009] Anzeige des Default-Profiles nach dem Anlernen von Rollo- und Jalousie-Aktoren korrigiert.

### 3.65.6

#### Fehlerbehebungen

- [HMCCU-969] Dialog nach Homematic Gerätefirmware-Update korrigiert.
- [HMCCU-966] HmIP-SWSD: Der Konfigurations-Parameter „Weiterleiten von empfangenen Datentelegrammen“ wurde nicht korrekt an das Gerät übertragen.
- [HMCCU-925] Ein Speicherfehler im Homematic Schnittstellenprozess (rfd) wurde behoben.
- [HMCCU-961] HmIP-STE2-PCB (ELV Bausatz): Der Status des Konfigurations-Parameters „Mindestsendeabstand“ wurde immer mit „Nicht aktiv“ angezeigt.

#### Erweiterungen / Änderungen

- [HMCCU-985] Mediola NeoServer aktualisiert auf Version 2.10.0.
- [HMCCU-833] Bei HmIP-Bewegungsmeldern wurde ein zweiter Helligkeits-Schwellwert für Verknüpfungen eingeführt. Der erste Helligkeits-Schwellwert schaltet z. B. das Licht bei erkannter Bewegung ein, wenn eine bestimmte Helligkeit unterschritten wurde. Dadurch wird es u. U. so hell, das folgende Bewegungen nicht mehr erkannt werden. Der zweite Helligkeitswert bildet die Schwelle für ein Nachtriggern bei eingeschaltetem Licht.
- [HMCCU-934] Die Beschreibung der Programme wurde folgendermaßen geändert (Beispiel):  
Vorher: „...Systemzustand: Anwesenheit, bei Änderung auslösen, nicht anwesend“  
Neu: „...Systemzustand: Anwesenheit, bei nicht anwesend, bei Änderung auslösen“
- [HMCCU-952] HmIP-WKP - Den Benutzerkanälen wurden innerhalb von Programmen 2 neue Parameter hinzugefügt, die es erlauben, auf die Tasten „Verriegeln/Entriegeln“ zu reagieren.
- [HMCCU-970] Bei Kanälen vom Typ „Konfiguration Entscheidungswert“ (z. B. HmIP-PSM Kanal 7) ist es nun möglich, den unteren und oberen Grenzwert mit Nachkommastelle einzugeben.
- [HMCCU-819] HmIP-WRCB (ELV Bausatz) - Hinweistext für die erlaubten Sonderzeichen erweitert.

### 3.63.9

#### Fehlerbehebungen

- [HMCCU-908] Aktualisierung der RPI-RF-MOD Firmware auf Version 4.4.22. Behebt u.a. ein Problem in der Funkkommunikation mit Homematic Geräten.
- [HMCCU-948] Der ELV-SH-WUA (ELV Bausatz) wurde in der WebUI nicht erkannt.
- [HMCCU-965] Die Gerätekonfigurationsseite der HmIP-FALMOT wurde nicht korrekt dargestellt.

### 3.63.8

#### Fehlerbehebungen

- [HMCCU-922] HmIP-WSC (ELV Bausatz) Geschwindigkeit bzw. Fahrzeit innerhalb von Programmen ergänzt.
- [HMCCU-921] HmIP-FSM16 - Fehlerhafte Beschreibung des Konfigurationsparameters „Wert Mindestsendeabstand“ korrigiert (war Wert Zufallsanteil).
- [HMCCU-920] Unterschiedliche Bezeichnung für Ein/Aus bei Hm und HmIP behoben.
- [HMCCU-909] HmIP-FWI (ELV Bausatz) - Die angezeigte Code-ID wurde unter Status/Bedienung um 1 zu hoch angezeigt.
- [HMCCU-907] Start-/Stopp langer Tastendruck innerhalb von Programmen war vertauscht.
- [HMCCU-895] Fehlende Übersetzung von Servicemeldungen hinzugefügt.
- [HMCCU-889] Umstellung von Sommer-/Winterzeit bei Homematic IP Geräten erfolgte in einigen Konstellationen zum falschen Zeitpunkt.
- [HMCCU-887] Das Urlaubsende wurde beim eTRV falsch angezeigt wenn Start- und Ende-Datum auf den gleichen Tag einstellt wurden.

#### Erweiterungen / Änderungen

- [HMCCU-940] Die auf der CCU mitgelieferte HmIPW-DRAP Firmware wurde aktualisiert auf Version 2.4.14.
- [HMCCU-939] Die auf der CCU mitgelieferte HmIP-HAP Firmware wurde aktualisiert auf Version 2.4.12.
- [HMCCU-928] HmIP-SMI55-2 - Der Hinweistext für den Batterie-/Netzbetrieb wurde angepasst.
- [HMCCU-919] Innerhalb von Programmen kann nun im Dialog „Wertebereich einstellen“ auch auf den exakten Wert getriggert werden.
- [HMCCU-882] Wiederherstellung von Gerätezuständen nach Geräteeustart: Wochenprofil aktiv / inaktiv bei Schalt-/Dimm- und Beschattungsaktoren, Manueller Modus und aktives Profil bei eTRVs.
- [HMCCU-881] HmIPW-WRC6 - Innerhalb von Programmen kann nun auf den Helligkeitswert getriggert werden.
- [HMCCU-838] Für Verknüpfungen zwischen Tastern und Dimmaktoren kann die Schrittweite des langen Tastendruckes gewählt werden.
- [HMCCU-818] Die Wandthermostate wurden mit der FW.-Version 2.8 überarbeitet und erhalten an Kanal 5 den neuen Parameter „Betriebsmode Thermostat/Hygrostat“. Der HmIP-BWTH erhält zusätzlich den Wärmebedarfskanal Boiler (Kanal 13). Das FW Rollout steht noch aus.

### 3.61.7

#### Fehlerbehebungen

- [HMCCU-895] HmIP-PSM: Die Übersetzung für den Parameter „FREQUENCY\_STATUS“ für Kanal 6 fehlte in Programmen.

#### Geräteintegration

- [HMCCU-905] Homematic IP Heizkörperthermostat Evo, silber (HmIP-eTRV-E-S) integriert.

#### Known-Bugs

- [HMCCU-907] Triggerbedingung "Start langer Tastendruck" und "Stopp langer Tastendruck" sind in Programmen vertauscht. Wird in kommender Version behoben.

### 3.61.6

#### Fehlerbehebungen

[HMCCU-900] HmIP-MP3P (ELV Bausatz): In Zentralenprogrammen konnten nicht mehrere MP3s nacheinander abgespielt werden.

### 3.61.5

#### Fehlerbehebungen

- [HMCCU-828] Beim Erzeugen / Löschen von Service Meldungen wurde ein UDP Socket nicht ordnungsgemäß geschlossen. Dies konnte zu einer maximalen Ausschöpfung der verfügbaren Linux-File Handles führen.
- [HMCCU-827] Per Programm für eine Einschaltdauer von „unendlich“ eingeschaltete Aktoren schalteten sich nach 31 Stunden aus.
- [HMCCU-830] Der Hilfe-Button (großes, blaues Fragezeichen rechts im Header) zeigte auf der Login- u. der Logout-Seite keinen Inhalt.
- [HMCCU-829] Die Favoriten für Gäste wurden bei Statusänderungen nicht aktualisiert.
- [HMCCU-814] In bestimmten Fällen konnte es bei der Statuswertaggregation einer Homematic IP Heizgruppe zu einer „NullPointerException“ kommen.

#### Erweiterungen / Änderungen

- [HMCCU-815] RPI-RF-MOD + CCU3 Coprozessor Firmware auf Version 4.4.12 aktualisiert. Die Firmware enthält u.a. Verbesserungen der Kommunikation im Verbund mit HmIP-HAPs / HmIPW-DRAPs.
- [HMCCU-876] HmIP-PSM - Konfigurationsparameter „Modus“ (Verbrauch/Einspeisung) hinzugefügt. Mit einer zukünftigen FW Version kann dann auch die Einspeiseleistung gemessen werden (z. B. für mini PV-Anlagen)
- [HMCCU-875] HmIP-SWO-x - Konfigurationsparameter „Low-Bat. Schwelle“ aus technischen Gründen entfernt.
- [HMCCU-863] Anzeige von Statuswerten bei Philips Hue Geräten. Diverse Fehlerbehebungen und Stabilitätsverbesserungen an der Kopplung von Philips Hue Geräten.
- [HMCCU-835] Anzeige von Statuswerten bei Osram Lightify Geräten. Diverse Fehlerbehebungen und Stabilitätsverbesserungen an der Kopplung von Osram Lightify Geräten.
- [HMCCU-848] Der Easymode Parameter „LONG/SHORT\_RAMP\_START\_STEP“ für Dimmaktoren, wird nun mit 2 Nachkommastellen angeboten.
- [HMCCU-831] Easymode-Profil „Position anfahren“ für Verknüpfungen und Rollladenaktoren hinzugefügt.
- [HMCCU-812] HmIP-SMI – Konfigurationsparameter „LED\_DISABLE\_CHANNELSTATE“ hinzugefügt (Geräte Firmware Version 3.2.x).
- [HMCCU-791] HmIP-WRCD – Servicemeldung ergänzt für übermäßige Wake-On-Radio Nutzung.
- [HMCCU-727] Bei der Aktualisierung der CCU Firmware wird jetzt standardmäßig ein Backup erstellt. Die Erstellung und Download des Backups erfolgen unmittelbar vor Neustart der CCU.
- [HMCCU-711] Updates von Geräte-Firmware Updates werden jetzt einzeln an jedes Gerät übertragen, wenn ein HmIP-HAP im System ist, um die Stabilität der Datenübertragung zu verbessern.
- [HMCCU-675] HmIPW-DRAP - Identifikation unter Status/Bedienung mit aktueller HmIPW-DRAP-Firmware hinzugefügt.
- [HMCCU-160] Für Programme wurden die Parameter Start/Stopp langer Tastendruck für Taster hinzugefügt.

### 3.59.6

#### Fehlerbehebungen

[HMCCU-810] Ein nicht mehr genutzter Code Abschnitt wurde entfernt. Dieser ermöglichte eine „Remote Code Execution“ ohne vorherige Authentifizierung.

- [HMCCU-800] HmIP-FSI16 - Unter Status/Bedienung wird nun statt „Tastendruck kurz/lang“ der Text „Der Kanal hat hier keine Funktion“ ausgegeben.
- [HMCCU-796] Nach Bestätigung von Änderungen in einer Gruppe, wurde zur Geräteübersicht gesprungen. Nun wird zur Gruppenansicht zurückgekehrt.
- [HMCCU-781] Fehler beim Konfigurationsparameter „Aktion bei Spannungszufuhr“ behoben.
- [HMCCU-720] Bei HmIP-Dimmaktoren ließ sich die Rampenzeit innerhalb von Programmen bei Nutzung der Kanalaktion ohne Eingabe einer Einschaltdauer nicht nutzen.
- [HMCCU-680] Fehler mit hängendem Dialog bei Gerätetausch von Homematic Geräten.

#### Geräteintegration

- [HMCCU-544] Homematic IP Türschlossantrieb (HmIP-DLD)

#### Erweiterungen / Änderungen

- [HMCCU-809] Mitgelieferte HmIPW-DRAP Firmware auf Version 2.2.24 aktualisiert.
- [HMCCU-804] HmIP-WRC6 - Den Kanälen 1 - 6 wurde der Konfigurations-Parameter ABORT\_EVENT\_SENDING\_CHANNELS hinzugefügt.
- [HMCCU-802] Das Textfeld zur Eingabe der Frostschutztemperatur wurde bei den Geräten HmIP-Geräten BWTH, FAL und FALMOT durch eine Combobox ersetzt.
- [HMCCU-795] Der minimale Temperaturwert einiger HmIP-Thermostate und -Wandthermometer wurde von 6.0 °C auf 5.0 °C geändert.
- [HMCCU-786] Bei den Wochenprogrammen von HmIP-Dimmern wurde die Combobox mit fest vorgegebenen Helligkeitswerten (in 5% Schritten) durch ein Textfeld ersetzt. Dadurch kann nun jeder beliebige Helligkeitswert zwischen 0% und 100% eingestellt werden.
- [HMCCU-785] Der Konfigurationsparameter „Ventil Umschaltwert“ kann nun bei der HmIP-FALMOT erst aktiviert werden, wenn der Parameter „Automatische Umschaltung von Stetig auf PWM“ aktiviert ist.
- [HMCCU-745] HmIP-MP3P - Easymode-Profil „MP3 - ein“ für Verknüpfungen mit Tastern hinzugefügt. Hiermit ist es z. B. einfach möglich, das Gerät als Haustürklingel zu verwenden.
- [HMCCU-654] Bei den Easymodes Verknüpfungen zwischen HmIP-Dimm-/Schaltaktoren und HmIP-Bewegungsmeldern ist nun die Art der Verweildauer wählbar.

### 3.57.5

#### Fehlerbehebungen

- [HMCCU-793] Nach einem Gerätereset wurden die Konfigurationsdaten u. U. nicht vollständig übertragen.
- [HMCCU-790] Bei Konfigurationsparametern, deren minimaler Wert < 0 beträgt, ließ sich der Wert 0 nicht eintragen.
- [HMCCU-784] Beim Hinzufügen von Kanal 1 einer HmIP(W)-FAL wurde fälschlicherweise auch eine Verknüpfung mit Kanal 2 angelegt. Diese hat keine Funktion und kann vom Anwender gelöscht werden. Dieser Fehler wurde behoben.

### 3.57.4

#### Fehlerbehebungen

- [HMCCU-778] Der Download des Zertifikats über den Button „Zertifikat erstellen“ (Einstellungen→Systemsteuerung→Netzwerkeinstellungen) wurde nicht gestartet, wenn eine HTTPS Verbindung zur CCU WebUI in einem Chrome Browser ab Version 88 verwendet wurde.
- [HMCCU-777] Das Herunterladen der CCU Firmware über den Button „Herunterladen“ (unter Einstellungen→Systemsteuerung→Zentralen-Wartung) erfolgte nicht, wenn eine HTTPS Verbindung zur CCU WebUI in einem Chrome Browsers ab Version 88 verwendet wurde.

- [HMCCU-768] Problem bei der Eingabe von Gleitkommazahlen behoben.
- [HMCCU-765] Fehler beim Dialog zur Eingabe der Eventverzögerung für HmIP-Fensterkontakte behoben.
- [HMCCU-763] Bei den Kanälen der HmIP-FALMOT wurde ohne angeschlossenen Antrieb u. U. fälschlicherweise der Wert „Ansteuerung 0%“ angezeigt und der Kanal als „aktiv“ markiert.
- [HMCCU-762] Fehler in der Sortierfunktion bei Kanalauswahl im Programmdialog behoben.
- [HMCCU-712] Nach Deinstallation des NeoServer blieb der entsprechende Button in der Systemsteuerung erhalten und führte zu totem Link.

#### Geräteintegration

- [HMCCU-721] Homematic IP Schalt-Mess-Aktor für USB (HmIP-USBSM, ELV Bausatz)

#### Erweiterungen / Änderungen

- [HMCCU-773] RPI-RF-MOD / CCU3 Coprozessor Firmware auf Version 4.2.14 aktualisiert. Die Firmware behebt einen Fehler, der unter bestimmten Voraussetzungen zu einer dauerhaften Kommunikationsstörung führen konnte und korrigiert eine geringfügige RF-Frequenzabweichung.
- [HMCCU-767] Für HmIPW-Geräte steht nun der Parameter „Kanalaktion“ innerhalb von Programmen (Aktivität) zur Verfügung. Dieser ermöglicht es, die Identifikation (Display/Systemtaste) einzustellen.
- [HMCCU-764] DRAP Kanal 0 Anzeige Stromaufnahme Bus 1/Bus 2. Da die Messung der Stromaufnahme erst Ströme ab 100 mA erfasst, wird auf der Statusseite bei einem Wert < 100 mA nicht mehr 0 mA, sondern < 100 mA auf der Statusseite angezeigt.
- [HMCCU-756] Beim Rauchmelder HmIP-SWSD wurde der Fehler-Code für eine verschmutzte Rauchkammer hinzugefügt.
- [HMCCU-755] Bei Geräten mit dem Kanal „Konfiguration Entscheidungswert“ wird nun ein Hinweis eingeblendet, dass der Parameter aktiviert werden muss, wenn Verknüpfungen mit diesem Kanal vorhanden sind.
- [HMCCU-726] Bei Heizungsgruppen wird nun der Kanalname sowie die Kanalbeschreibung anstelle des Gerätenamens angezeigt.
- [HMCCU-655] Die Kanäle der HmIP(W)-FALx/FALMOT können nun der HmIP Heizgruppe hinzugefügt werden (für Verknüpfungen FAL-Kanal zu WTH).

### 3.55.10

#### Fehlerbehebungen

- [HMCCU-760] Einzelne Konfigurationsparameter einzelner Geräte konnten nicht verändert werden. Betroffen waren sowohl Homematic IP als auch Homematic Geräte.
- [HMCCU-754] Korrektur von Standardkonfigurationswerten des HmIP-SCTH230.

### 3.55.5

#### Geräteintegration

- [HMCCU-626] Homematic IP CO2-Sensor, 230V (HmIP-SCTH230 – ELV Bausatz)
- [HMCCU-582] Homematic IP Wired Fußbodenheizungscontroller (HmIPW-FALMOT-C12).
- [HMCCU-462] Homematic IP Feinstaubsensor (HmIP-SFD – ELV Bausatz).

#### Erweiterungen / Änderungen

- [HMCCU-734] Auf der CCU mitgelieferte HmIP-HAP Firmware wurde auf Version 2.2.18 und HmIPW-DRAP Firmware wurde auf Version 2.2.16 aktualisiert.
- [HMCCU-728] Möglichkeit des Umgehens eines Coprozessor Firmware Updates durch Anlegen der Datei „/etc/no-coprocessor-update“ wurde entfernt, um Probleme dadurch entstehender Inkompatibilität zu vermeiden.

- [HMCCU-706] Die HmIP-HAP und HmIPW-DRAP Firmware, auf der Zentrale ist, wird bei der Anzeige neuer Firmware Versionen auf der Startseite berücksichtigt.
- [HMCCU-676] Verhalten der WebUI beim Update der HmIP-HAP bzw. HmIPW-DRAP Firmware ist vereinheitlicht worden.
- [HMCCU-639] CCU Firmware kann jetzt in einem Schritt direkt auf die Zentrale heruntergeladen und installiert werden.
- [HMCCU-621] Coprozessor in Bootloader versetzen beim Herunterfahren der Zentrale.
- [HMCCU-587] Optional aktivierbare automatische Umleitung von HTTP- auf HTTPS Verbindungen für die WebUI (Einstellungen->Systemsteuerung->Sicherheit).
- [HMCCU-509] Berücksichtigung des Coprozessors bei Werksreset der Zentrale.

#### Fehlerbehebungen

- [HMCCU-730] Parameter für Notbetrieb Heizen / Kühlen bei HmIP-FALMOT-C12 und HmIPW-FALMOT-C12 ließen sich nicht einstellen.
- [HMCCU-723] Beim Herunterfahren der Zentrale wurde der Prozess multimacd nicht gestoppt.
- [HMCCU-714] HmIP-FALMOT: Darstellung des Öffnungswinkels bei einem Wert von 0% korrigiert. Es wurde anstatt 0% „—“ angezeigt.
- [HMCCU-677] Korrektur bei der Filterfunktion beim Einstellen von Gewerken.
- [HMCCU-615] WebUI Seite „Geräte-Firmware-Übersicht“ wurde nach erfolgreichem Firmware-Update des HmIPW-DRAP nicht automatisch aktualisiert.

### 3.53.34

#### Erweiterungen / Änderungen

- [HMCCU-702] Übersichtlichere Darstellung der Datenpunkte in Diagrammen (bei „Mouseover“).
- [HMCCU-700] Exkludieren von Verzeichnissen mit „.nobackup“ Datei beim Erstellen von Backups dadurch reduziert sich die Dateigröße von Backups
- [HMCCU-699] Aktualisierung des NEO Server auf Version v2.5.6.

#### Fehlerbehebungen

- [HMCCU-705] Formatierung im Dialog zur Einstellung der Pumpenschutzfunktion beim Bearbeiten einer direkten Verknüpfung mit der HmIP-FAL korrigiert.
- [HMCCU-696] Im HmIPServer kam es zu False-positive Log Meldung (NoSuchDeviceException im LegacyNotificationHandler)
- [HMCCU-694] Abfrage der Default-Funkadresse mit neuer Coprocessor Firmware verbessert
- [HMCCU-688] Verbesserte Abfrage der Homematic Default-Funkadresse auf Zentralen nach einem Werksreset oder bei Erstinbetriebnahme (nur HM).
- [HMCCU-683] Problem beim Dimmen von Wired Dimmaktoren mittels HmIP Funk-Fernbedienungen wurde korrigiert.
- [HMCCU-693] Bargraph der Duty Cycle Anzeige bei zusätzlichen Gateways korrigiert.
- [HMCCU-692] „Notepad“ Icon beim Erstellen und Bearbeiten von Programmen wird wieder angezeigt.
- [HMCCU-690] Beim Konfigurieren der Dimmkanäle (6,7,8) des HmIP-MP3P wurde die Ausschaltdauer nicht an das Gerät übertragen.

#### Known-Bugs

- [HMCCU-711] Bei der Übertragung eines Background OTAU muss das zu aktualisierende Geräte in direkter Funkreichweite zur CCU sein. Ein Geräteupdate über einen HmIP-HAP ist derzeit nicht möglich.

### 3.53.30

#### Erweiterungen / Änderungen

- [HMCCU-685] Optimierungen zum Reduzieren der Duty Cycle Belastung bei gerouteten Multicast-Funktelegrammen.



[HMCCU-684] Vorbereitendes Firmware Update für HmIPW-DRAP mit Firmware Version 2.0.16 vor dem Update auf 2.2.X.

Auf der CCU3 befindliche HmIPW-DRAP und HmIP-HAP Firmware wurde auf Version 2.2.12 aktualisiert.

### Fehlerbehebungen

[HMCCU-687] Das Update des HmIPW-DRAP konnte in bestimmten Netzwerk-Konstellationen nicht immer durchgeführt werden.

[HMCCU-679] Die Ansicht der Favoriten unter Status und Bedienung wurde nicht korrekt dargestellt.

### 3.53.26

### Geräteintegration

[HMCCU-525] Homematic IP Wandtaster – flach (HmIP-WRCC2)

[HMCCU-414] Homematic IP Wired Wandtaster – 2-fach (HmIPW-WRC2)

[HMCCU-413] Homematic IP Wired Wandtaster für Markenschalter – 2-fach (HmIPW-BRC2)

[HMCCU-256] Homematic IP Schaltaktor für Hutschienenmontage (HmIP-DRSI1)

### Erweiterungen / Änderungen

[HMCCU-520] **Update für Homematic IP Wired Access Points (HmIPW-DRAP)**

Durch Verbesserungen des LAN-Routings muss bei vorhandenen HmIPW-DRAPs mit Firmware (< 2.1) zwingend eine Firmware-Aktualisierung vorgenommen werden. Dies geschieht durch einen Wizard nach dem Einspielen dieser CCU-Version und Neustart der Zentrale.

#### **Homematic IP Access Point als weiteres Funk-Gateway für die CCU nutzbar**

Es ist nun möglich Homematic IP Access Points (HmIP-HAP) an der CCU als „LAN-zu-Funk-Gateways“ einzusetzen. Ein entsprechendes Update für HmIP-HAPs ist in dieser CCU-Firmware enthalten und kann über *Systemsteuerung > Access Points mit inkompatibler Firmware* eingespielt werden.

Der Betrieb von bis zu zwei Access Points (HmIP-HAP und/oder HmIPW-DRAP) an einer CCU ist nun möglich. Dadurch lassen sich auseinanderliegende Verteilungen per HmIPW-DRAP oder entfernte Funk Komponenten per HmIP-HAP einfach über das Hausnetzwerk in die CCU einbinden.

[HMCCU-519] Die Geräte HmIPW-DRAP und HmIP-HAP werden nun unter Einstellungen > Geräte aufgeführt und unter Status und Bedienung angezeigt.

[HMCCU-666] Mit der Fw. >= 1.6 ist es beim HmIPW-DRBL4 und HmIP-DRBLI4 möglich, die Ausgänge zu tauschen. Damit können Fehlverdrahtungen bei der Installation (hoch/runter) korrigiert werden.

[HMCCU-660] Der Neo-Server wurde auf die Version 2.5.5 aktualisiert.

[HMCCU-650] CloudMatic auf Version v.20191127 aktualisiert.

[HMCCU-601] Die virtuelle Fernbedienung für HmIP wurde in HmIP-RCV-1 umbenannt.

**Achtung!** Diese Umbenennung kann unter Umständen dazu führen, dass selbst erstellte Skripte, welche auf diese virtuellen Fernbedienungskanäle zugreifen, nicht mehr korrekt ausgeführt werden und angepasst werden müssen.

[HMCCU-636] Beschreibung der Servicemeldungen der HmIP-FALx verbessert.

[HMCCU-630] Mit der Firmware Vers. >= 1.6 ist es beim HmIPW-DRBL4 und HmIP-DRBLI4 nun möglich, den Modus (Jalousieaktor/Rollladenaktor) der entsprechenden Kanäle zu ändern, ohne die dazugehörigen Verknüpfungen vorher löschen zu müssen.

[HMCCU-617] Filterung von Parametern in der LegacyAPI ist auch für Events verfügbar.

- [HMCCU-613] Das MultiCast-Routing kann bei entsprechenden Geräten (z. B. HmIP-PSM) abgeschaltet werden.
- [HMCCU-609] Änderung an der Lighttpd „Cache-Control“ HTTP Header-Konfiguration.
- [HMCCU-604] Das Auto-Login ist nach der Erstinbetriebnahme der CCU deaktiviert.
- [HMCCU-591] Unter „Systemsteuerung“ gibt es einen neuen Button, der es ermöglicht, Access Points mit inkompatibler Firmware (< 2.1.0) zu suchen und zu aktualisieren.
- [HMCCU-579] OSS-Lizenzinformationen erweitert.
- [HMCCU-573] Funk-Aktoren sind nach einem CCU Neustart jetzt schneller über Routing erreichbar.
- [HMCCU-546] Hinweis, dass Geräte in Heizungsgruppen nur in der Gruppe geändert werden sollten.
- [HMCCU-500] Die Alarmdauer der HmIP-ASIR wurde auf 600s begrenzt.
- [HMCCU-471] Direktverknüpfungen der virtuellen Kanäle (HmIP-RCV-50) wurden nicht angezeigt.
- [HMCCU-398] Innerhalb von Programmen steht nun die Umschaltung Auto/Manu von Wochenprogrammen zur Verfügung.
- [HMCCU-183] Verknüpfungsmöglichkeiten für die HmIP-ASIR/-O/B1/-2 für Sensoren vom Typ CONDITION\_SWITCH\_TRANSMITTER (z. B. HmIP-SLO) hinzugefügt.

### Fehlerbehebungen

- [HMCCU-674] Wurden sehr viele Räume/Gewerke angelegt, konnte der OK-Button des entsprechenden Filter-Dialogs nicht mehr erreicht werden. Diese Dialoge können nun mit der Maus verschoben werden.
- [HMCCU-645] Die Sortierreihenfolge im Systemprotokoll wechselte bei jeder Aktualisierung der Daten.
- [HMCCU-628] In der XMLRPC Schnittstelle der LegacyAPI kam es zu einem Parserfehler, wenn innerhalb eines Arrays von Structs, leere Strings mit String-Tags vorkamen.
- [HMCCU-619] Die virtuelle Fernbedienung stand nach dem Einspielen eines CCU2 Backups innerhalb eines Programms nicht mehr zur Verfügung.
- [HMCCU-595] Bestimmte Kanäle einiger Geräte wurden fälschlicherweise als „Fensterkontakt“ bezeichnet. Die Bezeichnung wurde in „Kontakt“ geändert.
- [HMCCU-542] Missverständlicher Text zum Konfigurationsparameter „Zyklische Statusmeldung“ angepasst.
- [HMCCU-523] Unter bestimmten Umständen wurde der Statuswert LOWBAT mit einem falschen Datentyp für Kanal 0 von Gruppengeräten geliefert.
- [HMCCU-504] Der minimale Wert des Konfigurationsparameters „Filterzeitraum“ einiger Sensoren wurde auf 500ms begrenzt. Kleinere Werte konnten dazu führen, dass das Gerät nicht mehr ordnungsgemäß funktioniert.
- [HMCCU-503] Der maximale Wert des Konfigurationsparameters „Entkalkungsfahrt“ für HmIP(W)-FALx-Cx wurde auf 24 Tage begrenzt.
- [HMCCU-502] Unter seltenen Umständen auftretende, falsche Servicemeldung für HmIP(W)-FALx-Cx korrigiert.

## 3.51.6

### Geräteintegration

- [HMCCU-477] Integration eTRV-HmIP-B-UK (Homematic IP Heizkörperthermostat - basic UK)
- [HMCCU-468] Integration HmIP-STV (Homematic IP Neigungs- und Erschütterungssensor, ELV-Bausatz)
- [HMCCU-288] Integration HmIP-FSI16 (Homematic IP Schaltaktor mit Tastereingang (16 A) – Unterputz, ELV-Bausatz)
- [HMCCU-257] Integration HmIP-WRCR (Homematic IP Drehtaster, ELV-Bausatz)
- [HMCCU-254] Integration HmIP-DSD-PCB (Homematic IP Klingelsignalsensor, ELV-Bausatz)
- [HMCCU-218] Integration HmIP-DRDI3 (Homematic IP Dimmaktor für Hutschienenmontage - 3-fach, ELV-Bausatz)

## Erweiterungen / Änderungen

- [HMCCU-461] Beim Setzen des SSH Passworts wird dieses nicht mehr als Programmargument übergeben.
- [HMCCU-454] Warteanimation beim Laden der Lizenzinformation von CCU-Firmware hinzugefügt.
- [HMCCU-168] Unkritische Log Meldung („multimac: Bad cast: std::bad\_cast“) des multimacd Prozesses wurden in ihrer Kritikalität entsprechend heruntergestuft.

## Fehlerbehebungen

- [HMCCU-458] Bei direkten Verknüpfungen mit Dimmern wurde ein Mindestlevel unter 10% nicht berücksichtigt (der Dimmer fuhr auf 0%).

## 3.49.17

### Geräteintegration

- [HMCCU-217] Integration HmIP-DRSI4 (Homematic IP Schaltaktor für Hutschienenmontage - 4-fach, ELV-Bausatz)
- [HMCCU-216] Integration HmIP-DRBLI4 (Homematic IP Jalousieaktor für Hutschienenmontage - 4-fach, ELV-Bausatz)

## Erweiterungen / Änderungen

- [HMCCU3-1873] Die virtuelle Darstellung der Behanghöhe von Rollladenaktoren wird nicht mehr bei den virtuellen Kanälen, sondern am Realkanal angezeigt.
- [HMCCU-434] Easymode-Profil bei der HmIP-ASIR-O hinzugefügt.
- [HMCCU-427] Eventauslieferung der Homematic IP XML-RPC Schnittstelle wurde überarbeitet.
- [HMCCU-422] Die Links der Hilfe-Seite wurden aktualisiert.
- [HMCCU-416] HM-ES-TX-WM Konfigurationsparameter „Kompatibilitätsmodus für Elster Zähler“ hinzugefügt.
- [HMCCU-409] Die Konfigurationsparameter der Realkanäle werden nun auch in der vereinfachten Ansicht angezeigt. Dort werden u. U. wichtige Einstellungen vorgenommen, wie z. B. die Umschaltung zwischen Rollladen und Jalousie beim HmIP-DRBLI4.
- [HMCCU-408] Stabilitätsverbesserung bei Homematic IP Wired.
- [HMCCU-399] Benutzerfreundliche Darstellung des Konfigurationsparameters „Aktion bei Spannungszufuhr“
- [HMCCU-393] HmIP-SAM - Easymode Profil „Schalter Ein / Aus“ hinzugefügt.
- [HMCCU-391] Beim Anlegen von Benutzern werden Leerzeichen im Benutzernamen nicht mehr erlaubt.
- [HMCCU-388] Das Hochladen von Gerätefirmware auf die CCU wird jetzt verhindert, wenn die Mindestanforderung der CCU Firmware Version nicht erfüllt ist.
- [HMCCU-385] Neuer Konfigurationsparameter zum Beenden von laufenden Verknüpfungen für Funk Jalousie-/Rollladenaktoren hinzugefügt. Die Gerätefirmware muss dazu auf die Version >= 1.8.0 aktualisiert werden (in Kürze als Download über die WebUI zur Verfügung).
- [HMCCU-384] HmIP-FALMOT - Neue Konfigurationsparameter für („Ventilposition Umschaltwert“ und „Automatische Umschaltung von Stetig auf PWM“) hinzugefügt. Die Gerätefirmware muss dazu auf die Version >= 1.0.10 aktualisiert werden (in Kürze als Download über die WebUI verfügbar).
- [HMCCU-372] HmIP-WRCD - Wegfall der Farbauswahl „Rot“ für Text und Hintergrund.  
Neuer Konfigurationsparameter „Spannungsversorgung Batterie-/Netzbetrieb“.
- [HMCCU-367] Überarbeitung der Wochenprogramme für HmIP-Aktoren.
- [HMCCU-366] Für HmIP-Dimmer/Schaltaktoren steht nun der Parameter „Kanalaktion“ innerhalb von Programmen (Aktivität) zur Verfügung. Dieser ermöglicht es, die Einschaltdauer und Helligkeit bzw. den Schaltzustand bequem einzustellen.
- [HMCCU-365] Für HmIP-Jalousie-/Rollladenaktoren steht nun der Parameter „Kanalaktion“ innerhalb von Programmen (Aktivität) zur Verfügung. Dieser ermöglicht es, die Behanghöhe und Lamellenposition einzustellen.

- [HMCCU-353] Zur Anzeige von Geräte-Firmware Updates auf der Startseite, wird nun eine gefilterte Liste vom Update-Server angefordert.
- [HMCCU-352] Der Schriftzug „Duty Cycle CCUx“ ändert sich in einen Link, wenn mehrere Interfaces (z. B. ein LAN-Gateway) vorhanden sind. Bei Betätigung dieses Links, wird in einem Dialog der Duty-Cycle aller RF-Interfaces angezeigt.
- [HMCCU-320] Beschreibungstext von CCU-Programmen mit Zeitmodul um den Endzeitpunkt erweitert.
- [HMCCU-311] Für Wired-Bewegungsmelder und Funk-Bewegungsmelder mit einer Firmware-Version > 2.x.x (in Kürze als Download über die WebUI zur verfügbar) kann der Helligkeitswert innerhalb von Verknüpfungen nun direkt wie unter Status/Bedienung angezeigt, eingegeben werden.
- [HMCCU-284] Das Passwort bei der SSH Freischaltung wird jetzt als SHA512- anstatt MD5 Hash gespeichert.
- [HMCCU-238] Hinweis vor Durchführung von Geräte-Updates bei einem Duty-Cycle >= 80%.
- [HMCCU-180] Innerhalb von Verknüpfungen kann der lange Tastendruck nun deaktiviert werden.

### Fehlerbehebungen

- [HMCCU-460] Ein Bestandteil des Authentifizierungsmechanismus konnte ein Einfrieren des lighttpd Webservers verursachen.
- [HMCCU-453] HmIP-WRCD - Fehler beim Display-Reset behoben.
- [HMCCU-417] HmIP-WRCD - Fehler bei der Ausgabe des akustischen Signals behoben.
- [HMCCU-415] WTH-2 - Problem mit der Einschaltverzögerung im Easymode-Profil „Schalter Ein / Aus“ behoben.
- [HMCCU-406] Unter bestimmten Umständen konnte es vorkommen, dass unberechtigterweise der „Übernehmen“ und „OK“-Button in einer direkten Verknüpfung nicht dargestellt wurden und ein Warnhinweis ausgegeben wurde.
- [HMCCU-392] Darstellungsfehler bei der Sortierung von direkten Verknüpfungen nach Empfänger behoben.
- [HMCCU-374] Fehlerhafte Verknüpfung für den langen Tastendruck des Profils „AUS“ bei Taster-Schaltaktor korrigiert (war Toggle).
- [HMCCU-373] Überflüssiger Hinweistext zum Aktivieren der „Spannungsversorgung Netzbetrieb“ bei HmIPW-Geräten innerhalb von Verknüpfungen entfernt.
- [HMCCU-357] HmIP-Energiezähler (z. B. HmIP-PSM) zeigten u. U. den Wert NaN als Wert für den CCU-Zählerstand an. Das Problem wurde behoben.
- [HMCCU-133] Die Syslog Identifier der multimacd und rfd waren nicht korrekt im Log.
- [HMCCU-58] Die XML-RPC Schnittstelle von Homematic IP gab bei Aufruf von „getVersion“ immer „1.0.8“ zurück. Es wird jetzt die Versionsnummer der CCU Firmware zurückgegeben.

### 3.47.22

#### Fehlerbehebungen

- [HMCCU-407] Probleme bei Interprozesskommunikation nach Start des Homematic IP Dienstes behoben.

### 3.47.18

#### Fehlerbehebungen

- [HMCCU-401] Zugriff über WebUI EcmaScript Seiten (ESP) für unprivilegierte Benutzer weiter eingeschränkt. (behebt CVE-2019-14473)
- [HMCCU-400] Zugriff über WebUI ESP Seiten für unprivilegierte Benutzer weiter eingeschränkt. (behebt CVE-2019-14475)
- [HMCCU-383] Bei einem HTTP Redirect auf die login.htm wurde eine Session ID ohne vorherigen Login erzeugt (behebt CVE-2019-9583)
- [HMCCU-382] Directory Traversal / Arbitrary File Read behoben (CVE-2019-9726)

[HMCCU-381] Möglichkeit einer Denial of Service Attacke auf Logikschicht der Zentrale (ReGaHss) von eingeloggten Benutzern behoben (CVE-2019-14474)

#### Erweiterungen / Verbesserungen

- Allgemeine Stabilitätsverbesserungen beim Homematic IP Dienst
- Robustheit der Homematic IP XML-RPC Schnittstelle gegenüber nicht mehr erreichbaren Clients wurde verbessert. Hierdurch konnte es zum Ausbleiben von Geräte Events kommen.

#### 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-FCI1/6 - 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 Skripten 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.

### 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.

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  - [bluez5\\_utils 5.49](#)
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  - [generic\\_raw\\_uart 6df728fd62f012b08574bf2729b7e4a035659871](#)
  - [glibc-2.27-57-g6c99e37f6fb640a50a3113b2dbee5d5389843c1e](#)
  - [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](#)
- [lzo 2.10](#)
- [msmtp 1.6.6](#)
- [ncurses 6.1](#)
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- [perl 5.26.1](#)
- [popt 1.16](#)
- [psplash-5b3c1cc28f5abdc2c33830150b48b278cc4f7bca](#)
- [readline 7.0](#)
- [rng-tools 5](#)
- [rpi-bt-firmware-b5307312a172c8d87d44f6df32f5e24f1c19770e](#)
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- [rsync 3.1.3](#)
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- [socat 1.7.3.2](#)
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```
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```

```
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```

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 888       8  888  .d88'   Y888..8P
 888       8  888ooo88P'   `8888'
 888       8  888                .8PY888.
`88.      .8'  888                d8' `888b
  `YbodP'    o888o                o888o o88888o
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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:

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

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

<code>CONFIG_SND_MIXER_OSS</code>	- OSS Mixer API
<code>CONFIG_SND_PCM_OSS</code>	- 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 gop_size	The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.
__u32 max_b_frames	The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)
enum go7007_aspect_ratio aspect_ratio	The aspect ratio to be encoded in the meta-data of the compressed format.
	Choices are: 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
__u32 flags	Bit-wise OR of control flags (below)

Flags in struct go7007\_comp\_params:



GO7007\_COMP\_CLOSED\_GOP            Only produce self-contained GOPs, used to produce streams appropriate for random seeking.

GO7007\_COMP\_OMIT\_SEQ\_HEADER    Omit the stream sequence header.

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:

enum go7007\_mpeg\_video\_standard  
mpeg\_video\_standard            The MPEG video standard in which to compress the video.

Choices are:

GO7007\_MPEG\_VIDEO\_MPEG1  
GO7007\_MPEG\_VIDEO\_MPEG2  
GO7007\_MPEG\_VIDEO\_MPEG4

\_\_u32  
flags                            Bit-wise OR of control flags (below)

\_\_u32  
pali                            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. 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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## [ntfs 3g-2017.3.23](#)

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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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Frank Vanden Berghen, based on original implementation by Martyn C Brown. Changed by eQ-3 GmbH 2006-2007

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 *
 * Copyright (c) 2015 by eQ-3 Entwicklung GmbH
 * Author: Lars Reemts, lars.reemts@finalbit.de
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```
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//
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//
// Derived from RX-8025 driver:
```



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// Modified by fengjh at rising.com.cn
//
// 2006.11
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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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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  
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#  
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```

# - require Tcl 8.2 instead of 8.3

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, 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 companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library 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 compile 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) 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.
- c) 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.

d) 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 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.

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:

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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.

, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

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#### Preamble

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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.

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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.

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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.

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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.

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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

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