Release Note

ÉclipseHX

OMEGA / MEDIAN / DELTA / E-PiCo

Customer Release Note
V13.1.0 Rev A

Date: 5th Oct 2023
Release: 13.1.0 Rev A
Doc Part No: PUB-00241 Rev A

Table of Contents

1 Introduction

1.1 Scope

This document describes the changes added to the Eclipse HX system software in the 13.x releases.

1.2 V13.1.0

1.2.1 Features Added in v13.1.0 Rev A

1.2.1.1 E-IPA card support of NMOS IS-04 and IS-05

The release adds the ST2110 NMOS IS-04/IS-05 standard AES67 direct port mode of operation to the matrix E-IPA card. This allows the configured AoIP E-IPA ports to be discovered by an NMOS registry on the local network and routing to/from the card to be managed by an NMOS controller.

This update is necessary to provide orchestration systems to identify Clear-Com AoIP streams and if they are to be connected to 3rd party IP devices, route them. This further enhances the Eclipse for use in SMTE2110 environments including some AV markets that embrace IPMX.

1.2.1.2 Role Based Session Workflows

Role based operation has always supported on the FS II 1.9, FS II 2.4 and FS Edge beltpacks. This has allowed virtual audio endpoints (roles) to be selected on different physical endpoints. This feature set has however been limited and roles were bound specific hardware types e.g., FS Edge could only be used on FS Edge beltpacks.

The Role Based Session Workflow feature set added in this release delivers roles that can be used across any of the core hardware endpoints i.e., the full V-Series panel series, all wireless beltpack types and virtual clients. This flexibility revolutionizes the way that systems can be configured as hardware setup is now decoupled from feature configuration. Users can now move between different endpoints and login to retrieve their saved key and audio assignments against their role.

The new role screen is the hub of the new feature set. The EHX administrator can now use this screen to setup different key layouts and properties for the different endpoints that they wish to use against each role. Other role monitoring and management features have been added in this release.

The role option also includes a PIN code to prevent unauthorized access to other roles, other than their own. It also includes saving the role key and audio assignments on a file for USB insertion to V-Series panels.

1.2.1.3   2X10 Touch Desktop Panel Support

The 2X10 Touch desktop panel is now supported by the EHX configuration system. This panel has 20 talk or listen touch screen-based keys. The panel is equipped with the standard mic/LS and headset connections (XLR-4 and 5 options). The 2X10 Touch Desktop panels support listen again. (Role Session on the 2X10 Desktop is not currently supported).

1.2.1.4   JDECT FS II 1.9 Support

The newly provided Japan DECT bands for FreeSpeak II are supported within EHX from 13.1.

1.2.2   Other Features and Fixes (by system component) added in v13.1

1.2.2.1   EHX Configuration Application

TP Ref: 94149

New operation/Bug Fix: Dante trunk status was reported incorrectly.

Explanation: Stream status was not always correctly received from Dante module resulting in "trunks down" even though Dante controller said streams were up. This has been addressed.

TP Ref: 147087

New operation/Bug Fix: Monitoring screen indicators not refreshing after a matrix is reset in a linked set.

Explanation: If secondary IP address is not set, all matrices have the same secondary address. This could cause the wrong matrix state to be refreshed after a reset.

TP Ref: 147338

New operation/Bug Fix: Matrices on the Layout screen are always grey. Closing the screen or force closing matrix connections has no effect.

Explanation: The UDP socket used to monitor matrix discovery packets had blocked and was not recycled with the other sockets in EHX. It is now part of the 'force close' list.

TP Ref: 144018

New operation/Bug Fix: Limited information shown on monitoring screen, only cards and ports. No advanced details, or IP port information.

Explanation: **The** HCI license negotiation had failure, and the retry mechanism was not sufficient. The retry mechanism has been improved to reduce the incidence of this issue.

TP Ref: 142553

New operation/Bug Fix: Many HCI License Negotiation Failure dialogs displayed on EHX after the PC left idle once the retry mechanism was activated.

Explanation: Success and failure messages redirected to the event log. This preserves the history and is searchable so is more useful to the user.

TP Ref: 145184

New operation/Bug Fix: Invalid AES Stream information in the Monitoring window. Additional alarm states present in the AES alarm states.

Explanation: Stream status was for Tx only ports is not available; this is better conveyed and more information is shown to the user including the new error states.

TP Ref: 145084

New operation/Bug Fix: Unable to download configuration after deleting a trunk port and adding a new port in its place on an E-IPA card.

Explanation: The trunk table had become corrupt, verify the trunk table when compiling trunks to remove empty nodes and trunks and ensure the broken trunk records are not created when ports are deleted. This can still occur with stacked configs, but in this use case trunk ports should be the same on all instances of the configuration.

TP Ref: 143222

New operation/Bug Fix: Panel Mixer Dialog does not draw well. On some screen ratios and sizes parts are not visible. There is no means to scroll or resize the window.

Explanation: The dialog now scales to fit the screen using the golden ratio and can be resized if required by dragging the edges using a mouse.

Clear-Com®
AN HME COMPANY

TP Ref: 131254

New operation/Bug Fix: USB Registration of FSII BP not working on Windows 11.

Explanation: Windows 11 compatible USB drivers for FSII and Edge added to installer.

TP Ref: 138935

New operation/Bug Fix: Stronger passwords are required in Agent-IC, specifying minimum length, use of capitals, numerals and certain special characters.

Explanation: The rules can be defined in System Preferences and are enforced on the Cards and Ports screen and at map compilation time.

TP Ref: 137631

New operation/Bug Fix: After upgrading the user is unable to change the IFB assignments on Logic Input Actions. No IFBs are listed as options, but the current assignment still works.

Explanation: IFB can now be assigned as Logic Input 1 or 2 Action Destinations as in previous releases.

TP Ref: 137290

New operation/Bug Fix: Image not always visible on panel programming, zoom to keys and zoom to fit both work after a fashion, using the scroll keys or mouse-wheel zoom can give a blank screen

Explanation: Panel programming zoom scrolling improvements implemented.

TP Ref: 136195

New operation/Bug Fix: LQ Direct to support 2 Way Radio Mode as a replacement for FOR22 units.

Explanation: The Application dropdown to support 2 way radio mode and Mute listen with talk key are both available on this port type.

TP Ref: 100366

New operation/Bug Fix: Logic Maestro Control Failure using routes and partylines (v9.1 to v12.4 upgrade)

Clear-Com®
AN HME COMPANY

Explanation: Partylines are permitted as source and destination both are permitted. An inhibit route with a partyline as a source or destination will not compile into a map.

1.2.2.2   CPU Card Application

TP Ref: 94508

New operation/Bug Fix: MK II E-Dante Card firmware update issues corrected.

Explanation: Corrections were made the E-Dante card upgrade processing to stop incorrect FPGA updates of the MK II E-Dante card.

TP Ref: 81162

New operation/Bug Fix: IFB HCI interface Issues corrected.

Explanation: Previously some IFB states would yield no HCI reply or empty HCI replies to an HCI request. This is incorrect HCI behavior and was causing performance issues in Dynam-EC. For example, remote IFB callers into IFB would yield an empty unsolicited HCI reply and IFB attribute delete requests for non-existent members would result in no response. This has now been corrected.

TP Ref: 129946

New operation/Bug Fix: Fix to rack crash caused by IP Stack fragmented packet processing.

Explanation: The CPU card was previously seen to crash in a particular network environment where fragmented packets were received. The CPU Card now keeps track of processing time and breaks out of the linked list of processing when appropriate to resume later.

TP Ref: 100996

New operation/Bug Fix: JDECT enhancement on FSII 1.9 and IPT

Explanation: Using 6 wireless channels (Japan Dect 6CH) instead of 2 (Japan Dect), or 5/2 (Japan Dect 5CH) and falling back to 4 if there is interference detection on the 6 channels.

TP Ref: 100996

New operation/Bug Fix: JDECT 4 channel FS II 1.9 Status Addition

Explanation: When a FS II 1.9 beltpack that is configured for use in the Japan region drops from the 6 to the 4-channel mode this is now shown in the wireless status screen.

TP Ref: 94837

New operation/Bug Fix: In-use tally now shown on wireless beltpacks.

Explanation: In use tally is now shown on wireless beltpacks. A slightly different blink rate had to be used as the panel blink rate is not available on beltpacks due to the use the optimized CDPI protocol. The in-use blink rate is most importantly slightly slower than the incoming call tally.

TP Ref: 134781

New operation/Bug Fix: Fixed for stuck on LQ control events applied.

Explanation: Control stacking for the LQ interface is now in place. Prior to this a single stacking count was (in error) used by multiple events and therefore the event first event to clear would stick on. Now corrected.

TP Ref: 134899

New operation/Bug Fix: Addition of 'Green' partyline in-use tally

Explanation: Previously, partyline in use tally was not visible on a listen only key. A new system preference has now been added to use a differently signaling scheme for this feature on lever and rotary panels. On these panels a low green flash is used on listen only and talk plus listen keys i.e., a similar style to the audio presence tally.

TP Ref: 128136

New operation/Bug Fix: Online assignment of a latched mirrored key previously resulted in stuck routing.

Explanation: When a key is online key assigned the correct latch state is now applied. Prior to this change the result would be an unlatched key, yet the routing would still be in place.

TP Ref: 133941

New operation/Bug Fix: Online Key Group key deletion error corrected.

Explanation: The Key Group key update HCI handler has now been corrected. It was previously incrementing the ID and therefore affecting the adjacent key on deletion.

Clear-Com®
AN HME COMPANY

TP Ref: 136898

New operation/Bug Fix: Call keys previously lost on beltpacks in online
mode.

Explanation: Call keys were previously not sent to EHX when
keys state requested. The result was that call keys were being lost on beltpacks
when going online in the system to EHX mode. Now corrected.

TP Ref: 137702

New operation/Bug Fix: 2 Way radio mode added for LQ Direct type ports.

Explanation: The 2-way radio option is now supported in the
module application field for LQ Direct ports. The result is the automatic firing of the
LQ control event when a talk route is made to the port.

TP Ref: 133036

New operation/Bug Fix: Incorrect early cleardown of SIP call from Dynam-
EC corrected.

Explanation: If Dynam-EC was used to start a SIP call and an
apply changes download was performed to the matrix the SIP call would be
cancelled when a panel talk key to the SIP client was unlatched. The call should
have stayed up as it was started from Dynam-EC. This has now been corrected.

TP Ref: 129853

New operation/Bug Fix: Map zero permanently selected now corrected.

Explanation: The reported map on matrix boot has previously
been locked into a state where, despite a valid (non-default) map being loaded, the
reported map was map zero. This has now been corrected, the setting of map zero is
no longer ever saved to the matrix terminator card.

TP Ref: 142101

New operation/Bug Fix: Matrix reset fix – Call Groups

Explanation: A matrix reset caused by a logic error in the
processing of Call Management Groups and Dual Reply Keys has been corrected.

TP Ref: 132435

New operation/Bug Fix: Save Diagnostics – Licensing information.

Explanation: The current currant usage of Agent-IC and Station-IC clients has now been added to the matrix snapshot zip file.

TP Ref: 100645

New operation/Bug Fix: Edge beltpack key 5 was being overwritten.

Explanation: A key assigned to the Edge beltpack key 5 position was being overwritten by a clear key when the reply key was overwritten in panel programming. This has now been corrected.

TP Ref: 144445

New operation/Bug Fix: Matrix reset was previously caused by third-party key removal via apply changes.

Explanation: On an apply changes download the third-party key pool is now remade. Previously, a removed key would result in an entry remaining in the pool, yet no key pointer stored. The entry is now freed.

TP Ref: 145825

New operation/Bug Fix: UI terminology updates

Explanation: The CPU card event log interface received several terminology changes in line with new naming guidelines e.g., a change to PTP leader/follower and main and back up (P1/P2) cards.

TP Ref: 147732

New operation/Bug Fix: Protocol addition to the Matrix Version DPI messaging.

Explanation: In order to support virtual client analytics and backwards compatibility the Matrix Version DPI messaging now includes the system release version number e.g., 13.1. Previously the messaging only included the CPU card firmware version number.

TP Ref: 142435

New operation/Bug Fix: Virtual client diagnostics error corrected.

Explanation: The virtual client licensing diagnostics engineering interface previously reported the incorrect number of current users of the Agent-IC licensing pool. The pool would report to be fully used when it was not. This (debug only) error has been corrected.

1.2.2.3   Dynam-EC

TP Ref: 92723

New operation/Bug Fix: Dynam-EC optimizations to speed up the GUI.

Explanation: The UI rendering times have been improved by delaying the creation of many objects to reduce redraw times.

1.2.2.4   V-Series Iris

TP Ref: 146142

New operation/Bug Fix: Volume buttons become unresponsive.

Explanation: It was possible to repeatedly tap the volume keys in a way that renders them inoperable. A panel reboot was required to fix.

TP Ref: 135855

New operation/Bug Fix: Hide AES67 network connection when in IVC mode

Explanation: AES67 Audio system is disconnected from the network when in IVC mode. This means only the IVC connection will take an IP Address from the network.

1.2.2.5   E-IPA-HX

TP Ref: 134214

New operation/Bug Fix: N+1 E-IPA prematurely switched to back up card.

Explanation: Sometimes upon system bootup incorrect AES67 stream alarm information was sent to the config card resulting in the system switching an IPA to its redundant card.

TP Ref: 135433

New operation/Bug Fix: AES67 incoming connection alarms.

Explanation: Loss of packets alarm on an incoming stream has changed from 10 to 30 seconds before the alarm is raised. This applies to all AES67 connections, trunks, directs and endpoints.

1.2.2.6 FS EDGE TCVR

TP Ref: 86471, 86632

New operation/Bug Fix: Improved MAC to IP resolver to support gateway traversal and media clock offset.

Explanation: Feature added to improve MAC resolution across network gateways.

TP Ref: 85881,87672

New operation/Bug Fix: EDGE Transceiver Stuck on blinking purple.

Explanation: Some channels could scan for up to 10 minutes before activating the transceiver. This has now been addressed.

TP Ref: 85957

New operation/Bug Fix: EDGE Transceiver issues resulted in distorted audio

Explanation: Fixed buffer overruns and overflows in DSP2. This has been addressed.

TP Ref: 81821

New operation/Bug Fix: Transceiver occasionally acquires 2 IP Addresses.

Explanation: Fixed issue where in DHCP mode, occasionally the transceiver would acquire a link-local address and a DHCP address.

TP Ref: 83059

Clear-Com®
AN HME COMPANY

New operation/Bug Fix: Report AES67 fault to connected system.

Explanation: When a critical AES67 fault state is detected a message is sent to the Eclipse/Arcadia system it is connected to. The transceiver will delay rebooting for 10mins and flash red status LEDs.

TP Ref: 84787

New operation/Bug Fix: PTP Status appearing blank in EHX.

Explanation: Fixed issue where the transceiver would be operational but the PTP status in EHX would appear blank.

TP Ref: 84488,85924

New operation/Bug Fix: Various upgrade fixes.

Explanation: Fixed issues where occasionally the transceiver upgrade would fail into an unrecoverable state.

TP Ref: 86244

New operation/Bug Fix: Snapshot fixes.

Explanation: Fixed issues where occasionally snapshots would fail or have missing files.

TP Ref: 86353

New operation/Bug Fix: Transceiver stuck on blinking purple.

Explanation: Fixed issues where occasionally after power up the transceiver remains in purple blinking state and never becomes operational.

TP Ref: 86475

New operation/Bug Fix: Perform an in-service channel scan

Explanation: Added feature where the transceiver can scan channels whilst in operation. Only the TBX's current region channels will be scan by the in service wifi scan. The scan duration per channel is 1 second.

TP Ref: 86644

New operation/Bug Fix: No Audio on beltpack

Explanation: Transceiver is left in a non-functional state after placed into a test mode. Executing a reset to default on the device clears the fault.

TP Ref: 87043

New operation/Bug Fix: Stuck Audio Buffers

Explanation: Fixed random stuck buffer issue.

TP Ref: 87366

New operation/Bug Fix: Missing Audio Buffers

Explanation: Fixed double buffering.

TP Ref: 88067,88155,88293,

New operation/Bug Fix: Missing snapshot data.

Explanation: Optimised snapshot process so it finished in time to make it into the snapshot.

TP Ref: 89692,90844

New operation/Bug Fix: AES67 Alarm reporting to EHX

Explanation: AES67 Session alarm and counters are now reported to EHX. NOTE: "No packets received" for AES67 is reported as a warning not a critical error.

TP Ref: 128299

New operation/Bug Fix: Support added for the larger 64Mbit Flash device storage

Explanation: This version of firmware will now run on both the 64MB QSPI flash storage-based hardware design as well as the current 64MB device-based board.

1.2.2.7 FREESPEAK II TCVR IP 1.9

TP Ref: 128299

New operation/Bug Fix: Transceiver blocks downgrades below 5.39.67.0

Explanation: To prevent a non-functional device, transceivers fitted with 64MB storage device are blocked from downgrading to versions earlier than 5.39.67.0.

Clear-Com®
AN HME COMPANY

TP Ref: 83059

New operation/Bug Fix: Report AES67 fault to connected system

Explanation: When a critical AES67 fault state is detected a message is sent to the Eclipse/Arcadia system it is connected to and the LED status flash red.

TP Ref: 130840

New operation/Bug Fix: Support added for 6CH Japan DECT

Explanation: Transceiver now supports 6 channel DECT for use in Japan.

TP Ref: 86353

New operation/Bug Fix: Transceiver stuck on blinking purple.

Explanation: Fixed issues where occasionally after power up the transceiver remains in purple blinking state and never becomes operational.

1.2.2.8   FREESPEAK EDGE Beltpack

TP Ref: 130984,134354

New operation/Bug Fix: Role Teams and Role Pin.

Explanation: The beltpack now supports role teams. Prior to selecting a role, the user can optionally be presented with a team which contains a list of roles determined by EHX configuration. If selected in EHX a pin is required for selecting a role.

TP Ref: 86433

New operation/Bug Fix: Display occasionally freezes.

Explanation: Fixed the beltpack display from randomly freezing.

1.2.2.9   FREESPEAK II Beltpack 1.9

TP Ref: 130986

New operation/Bug Fix: Role Teams.

Explanation: The beltpack now supports role teams. Prior to selecting a role, the user can optionally be presented with a team which contains a list of roles determined by EHX configuration. If selected in EHX a pin is required for selecting a role.

TP Ref: 130838

New operation/Bug Fix: Added support for Japan DECT

Explanation: Beltpack now supports 6 channel DECT for use in Japan.

1.2.2.10 FREESPEAK II Beltpack 2.4

TP Ref: 130986,134354

New operation/Bug Fix: Role Teams.

Explanation: The beltpack now supports role teams. Prior to selecting a role, the user can optionally be presented with a team which contains a list of roles determined by EHX configuration. If selected in EHX a pin is required for selecting a role.

TP Ref: 139829,139829

New operation/Bug Fix: Sidetone cannot be disabled.

Explanation: Fixed sidetone not switching off or changing to non-tracking when disabled in EHX. Sidetone level is also fixed.

1.2.2.11 IVC32 Application

TP Ref: 147748, 148667

New operation/Bug Fix: Trunks and IVC connection failure.

Clear-Com
AN HME COMPANY

Explanation: Occasionally IVC login may timeout and results in a failed connection. This fix increases the panel login response timeout to 5 seconds.

1.3   V13.0.0 Rev A

1.3.1   Features Added in v13.0.0 Rev A

1.3.1.1   E-IPA card redundancy

Via EHX Cards And Ports window you can configure an E-IPA card as a backup card for 1 or more IPA cards (i.e., N+1 and N+N modes). The card on standby requires the same (or more) licensing than the card it is configured to take over from. The card on standby must also have the same LAN port network connection as the card(s) it is configured to take over from.

1.3.1.2   Network Redundancy

Redundant LAN ports can be selected for back up of the main AoIP and IVC LAN ports. A device (and optionally a backup device) must exist on the network from which the E-IPA card can issue a ping request to check the device is reachable and the network is working. Upon failure of the ping after a configurable time the E-IPA will switch to the backup/standby port. The AoIP and IVC ports act independently of each other. Network redundancy is supported on the E-IPA and V-Series Iris panels.

1.3.1.3   Dynam-EC macro firing from panel keys

A key (or keys) on one or more panels or beltpacks can be configured to action (or reverse) a macro created and loaded in a connected Dynam-EC client.

1.3.1.4   EHX map import/export to/from .csv file

EHX now supports the export of elements of the loaded project to .csv file. The export includes instances of certain entities such as ports, party lines, IFBs, etc and some of their properties. The import (using the .csv format file) is limited to label names and IP panel usernames and passwords.

1.3.1.5   V-Series adjustable listen again VOX threshold

V-Series panel listen again VOX can be adjusted between 0 and -60dB in 3dB increments. The setting can be found in Panel Options.

1.3.1.6   Dynam-EC control of panels Alt text control

The "Alt text" feature on a Panel can now be toggled from within Dynam-EC.

1.3.1.7   IP Port Lockdown on V-Series Iris

EHX now offers a setting to lockdown all inessential IP ports on the V-Series Iris panels.

Clear-Com®
AN HME COMPANY

1.3.1.8   Linked system capacity increase

The number of trunk ports that can be used in a single linked system has been increased to 4096. Note, trunk ports are only those matrix ports used to bridge matrices together. User ports (e.g., endpoints, local directs etc., are not part of this this total).

1.3.2 Other Features and Fixes (by system component) added in v13.0.0 Rev A

The following system fixes and usability improvements were added to the Eclipse HX system in the v13.0.0 Rev A release.

1.3.2.1 EHX Configuration Application

TP Ref: 98995

New operation/Bug Fix: EHX crash on IPA upgrade

Explanation: EHX would previously close if an IPA upgrade was performed when one or more matrices had no configuration in the project.

TP Ref: 129609

New operation/Bug Fix: Transceiver screen type column widened

Explanation: The additional width of the transceiver type text when the transceiver was of type Edge was previously resulting in the column text being clipped. The column has now been widened.

TP Ref: 130156

New operation/Bug Fix: EHX previously closed when in Wireless Status screen loading

Explanation: Occasionally a screen reload task was previously cancelled without the handling of a timer expiry exception. This has now been addressed.

TP Ref: 98498

New operation/Bug Fix: Feature to prevent EHX client from logging in as standalone client

Explanation: Potential traffic issues can result when multiple EHX clients connect to the same matrix in local host (standalone) mode. A new setting in the EHX config file now will prevent a user from accidentally logging in as standalone client.

TP Ref: 97191

New operation/Bug Fix: Migration of EHX Server Database to SQLite

Explanation: EHX was previously using Microsoft SQL CE. This is no longer supported by Microsoft and therefore EHX has been ported to SQLite.

TP Ref: 97206

New operation/Bug Fix: EHX application crash accessing Iris colour palette

Explanation: An exception was previously caused by a missing Iris panel color palette. This can no longer occur.

TP Ref: 100253

New operation/Bug Fix: EQUE transceivers were in unusable state (no host card)

Explanation: Upgrading from some versions of 11.1 could previously leave the E1 transceivers in a corrupt state. This change fixes this issue. It recovers the file on import. No user action required.

TP Ref: 84903

New operation/Bug Fix: EHX - Disable Call Signal property renamed

Explanation: The 'Disable Call Signal' property has been renamed to improve readability and clarity. It is now called 'Disable Outgoing Call Signals'.

TP Ref: 97265

New operation/Bug Fix: EHX Memory leak

Explanation: Long standing memory leak located and fixed, most noticeable when many connections are made and broken between EHX and matrices.

TP Ref: 92603

New operation/Bug Fix: Apply Changes Exception when cancelling download

Explanation: It was previously possible for EHX to throw an exception while cancelling a map download. This has now been handled by EHX.

TP Ref: 86796

New operation/Bug Fix: Improve clarity of Trunk numbering on the monitoring screen

Explanation: The additional details for a Trunk Port in the monitoring screen have been rewritten to avoid confusion between the Trunk ID and the port number.

TP Ref: 97040

New operation/Bug Fix: Panel programming palette filters on big system very slow and inefficient

Explanation: Customer observed that in a very large system the searching and filtering in panel programming is extremely slow. Replace the structures and algorithms to increase efficiency and reduce the wait time.

TP Ref: 90062

New operation/Bug Fix: Prevent flicker on the Controls, Partylines and Key Group screens

Explanation: Improvements to the Controls, Partylines and Key Group screens now mean they no longer flicker or slow down the application during map build.

TP Ref: **82340**

New operation/Bug Fix: Copy Paste functionality in panel programming improved

Explanation: When copying a panel with page names, copying the entire panel will copy the page names as well, but copying a single page will not, only the keys will be copied.

TP Ref: 93014

New operation/Bug Fix: Omega IPA lost all mDNS records of panels

Explanation: Adding a VoIP panel to an E-IPA card using IP Manager screen caused all AoIP panels to go offline after the map is downloaded because the mDNS entries in the map were removed.

TP Ref: 79939

New operation/Bug Fix: Preserve Grouped Trunks on Import

Explanation: Previously importing an HXC file into a project resulted in the loss of all trunk group information from the affected matrix. This has now been resolved by allowing HXC files to be correctly imported.

TP Ref: 86385

New operation/Bug Fix: Retrieve configuration into EHX prevents changing
Fixed Group members

Explanation: It was previously possible for stacked configurations
to result in some of the group members being inaccessible. This has now been
addressed.

TP Ref: 86792

New operation/Bug Fix: Crash when creating new project (client-server)

Explanation: Race condition with monitoring screen update
processing for old project whilst generating new project. This has now been
addressed.

TP Ref: 90057

New operation/Bug Fix: Supervisor mode stops working due to HCI
handshaking

Explanation: Hand shacking between EHX and matrix must take
place every time a socket is opened. Also Added mechanism to retry license
handshake whenever license is not detected.

TP Ref: 88493

New operation/Bug Fix: Remove Auto Signal Tone from non-panel ports as it
is non-functional

Explanation: The functionality only applies to panels, as such do
not display for non-panel ports.

TP Ref: 86673

New operation/Bug Fix: Beltpacks without role show as online but are
filtered as offline

Explanation: Show further detailed information for Beltpacks
where possible, even if they have not logged in, as they are consuming antenna
ports.

TP Ref: 89168

New operation/Bug Fix: IVP panel in monitoring screen shows as orange

Explanation: Updated IVP Panel state indication to display green when no errors present. Previously they would show as orange.

TP Ref: 86665

New operation/Bug Fix: Long duration use of Supervisor mode resulted in session error

Explanation: After extended use, EHX will generate an error in supervisor mode. Defensive code was added to prevent attempting to remove a previously disposed timer.

TP Ref: 80524

New operation/Bug Fix: Aggregate fiber trunk monitoring

Explanation: Collate all the fiber trunks into a single status associated with the card to increase usability and reduce items on monitoring screen.

TP Ref: 94055

New operation/Bug Fix: AoIP offline after assigning an IVC panel from IP Panels Screen.

Explanation: Dragging a detected IVC panel onto an unused E-IPA port in IP Panel Screen incorrectly cleared the configuration data of all AoIP panels on that card. Downloading this change to configure the IVC panel caused all the AoIP panels to go offline. This behavior is fixed.

1.3.2.2   CPU Card Application

TP Ref: 79545

New operation/Bug Fix: CTRL Key Automatic MIC Activate

Explanation: Feature addition to enable the activation of the panel MIC and sidetone when the control is activated from the panel. This is useful when the control is actioning a route from the panel.

Clear-Com®
AN HME COMPANY

TP Ref: 79393

New operation/Bug Fix: Fix stuck call tone signals on BPs and panels across
Apply Changes downloads.

Explanation: It was previously possible to stick on a call tone
active to a beltpack or panel when an apply changes download is performed with the
call key held. This is now addressed.

TP Ref: 75871

New operation/Bug Fix: Key label coloring not previously correct for listen
only and online assigned keys

Explanation: Listen only keys and keys assigned online previously
did not pick up the correct configured color, now corrected.

TP Ref: 78309

New operation/Bug Fix: Audio outage heard on MADI connections during
apply change map download

Explanation: When the map was being processed during an apply
changes map download the sample rate settings would be reapplied to the MADI
card, this could be heard on the active MADI channels. This sample rate application
is only now performed if the setting has been updated by the EHX user.

TP Ref: 79802

New operation/Bug Fix: No audio on first E-Que wireless port

Explanation: The incorrect processing of virtual transceiver ports
resulted in loss of audio on the first port on the E-Que card. This has now been
corrected.

TP Ref: N/A (Internal)

New operation/Bug Fix: Save Diagnostics Zip now includes parameter
information

Explanation: The EHX save diagnostics utility is a series of
automated event log custom command executions. The save diagnostics output file
now outputs the custom message ID and parameters that were used to output each
block of the matrix snapshot.

Clear-Com®
AN HME COMPANY

TP Ref: 81212

New operation/Bug Fix: Issues previously seen in page update HCI handler

Explanation: The HCI handler could previously become
unresponsive if the panel shift button has been used to jump to a shift page. Logic
issue now addressed.

TP Ref: 82378

New operation/Bug Fix: Correction to HCI forced/blocked listen handling

Explanation: Prior to this correction the forced/blocked listen HCI
handler would output repeat entries when the get all reply would span multiple
messages.

TP Ref: 82392

New operation/Bug Fix: Support a configuration status HCI request

Explanation: The ability to request a matrix status of the
currently loaded map and passcode status is now supported.

TP Ref: 73068

New operation/Bug Fix: Fixed error with revert to default config matrix
button command

Explanation: The matrix can be requested to use the embedded
default config. This is useful if a loaded config is triggering a matrix boot time issue.
The feature was found to only work when the current matrix system number is 1.
This has now been corrected.

TP Ref: 81162

New operation/Bug Fix: Adjustments to IFB HCI API

Explanation: Some IFB HCI requests could result in no reply
being sent from the matrix, for example when the specified IFB does not exist on
that matrix. This can cause issues for an HCI client. This has been corrected i.e., at
least an empty HCI reply is now sent from the matrix.

TP Ref: 81608

New operation/Bug Fix: Active tallies (i.e., flashing) could result in EHX
supervision issues.

Explanation: Flashing tallies on a supervised panel could result in
a key being considered, incorrectly, to be latched. This has now been addressed.

TP Ref: 73021

New operation/Bug Fix: Panel PTT config not applied correctly via apply
changes download

Explanation: Changing the PTT settings on a panel would
previously cause issues if the PTT was active when PTT sending was changed on an
apply changes. This has now been addressed.

TP Ref: 82467

New operation/Bug Fix: Fiber node info in monitoring screen

Explanation: The monitoring screen now shows the current node
reachability state as reported by each matrix.

TP Ref: 79459

New operation/Bug Fix: Key attribute information added to the HCI key
status API

Explanation: For intercom keys the key T, L, FL attributes and
the key pressed state are used to populate the HCI message back to EHX containing
LED states. For the Menus the raw key state info is still used

TP Ref: 85360

New operation/Bug Fix: Supervisor mode issue with FL Keys

Explanation: Key off messaging was previously being sent to EHX
during panel supervisor sessions in error. This has now been addressed.

TP Ref: 85878

New operation/Bug Fix: Default config use in matrix not handling larger card
counts

Explanation: For large card counts additional audio resources
were being allocated in addition to those allocated for the default config map in use.
This has now been addressed.

TP Ref: 84832

New operation/Bug Fix: Support Alt Text Get/Set

Explanation: HCI messages added to get and set the current alt text activation state on a panel.

TP Ref: 85360

New operation/Bug Fix: Xpt issues in online key assignment

Explanation: Keys are now unlatched when they are edited or removed online via HCI message. These address the stuck xpt issues previously seen.

TP Ref: 87706

New operation/Bug Fix: Remote IFB access with callers and listeners

Explanation: Remote requests to call or listen to an IFB didn't previously stack resulting in xpts being stuck on or removed prematurely. Caller and listen routings into remote IFBs now stack correcting this issue.

TP Ref: 88415

New operation/Bug Fix: Iris and Iris-X color code issues

Explanation: Prior to this release some of the RGB color codes used for the Iris and Iris X panels were incorrect. This has been addressed in this release.

TP Ref: 87572

New operation/Bug Fix: Third party keys now included in HCI Key status

Explanation: The HCI key status handler previously did not include third party keys. This has support has been added in this release.

TP Ref: 87706

New operation/Bug Fix: False positives in the Linking Xpt Checker

Explanation: The Xpt checking utility was only checking destinations lists of the IFB, not returns. The result was the incorrect detection of stuck xpts. This has been addressed.

Clear-Com®
AN HME COMPANY

TP Ref: 91171

New operation/Bug Fix: Sort group keys previously unlatching on apply
changes download

Explanation: The local assign bit was not always set on the scroll
group assigned key. This would result in the key config being deemed to be different
when the NID was applied and therefore the latch cleared.

TP Ref: 93089

New operation/Bug Fix: Output Dante and AES67 channel states in the save
diagnostics

Explanation: The EHX save diagnostics now includes the current
Dante and AES67 channel states.

TP Ref: 95326

New operation/Bug Fix: PTT enabled panels previous cause output of error
diagnostics incorrectly

Explanation: Debug added to fault find issues with keyed
conference membership addition was being output incorrectly when the panel was
configured to action latched talk keys via PTT switch. This has now been corrected.

TP Ref: 94200

New operation/Bug Fix: Fixed memory corruption caused by firmware report
HCI API

Explanation: Some of the Dante related HCI payload generated in
a firmware report was overrunning the HCI message buffers. The effect

TP Ref: 96110

New operation/Bug Fix: Listen threshold now configurable on Iris

Explanation: The audio level that used to action the listen again
sample capture on the Iris panel was previously hard coded. This is now configurable
from EHX per panel.

TP Ref: 90215

New operation/Bug Fix: Adjustments to HCI transmit message scheduling to
not exhaust transmit buffers

Explanation: AoIP IP HCI cache upped, AoIP Statue cache reduced by one to avoid memory corruption. Stats cleared when ethernet first enabled.

TP Ref: 94508

New operation/Bug Fix: Support added of the E-MADI MK III and the E-Dante MK II interface cards

Explanation: Hardware changes have been made to the FPGA and PHYs on this hardware card to form a new hardware revision. Version 13.0 supports these new hardware revisions. Note – these cards are backwards compatible with previous system releases however full firmware upgradeability is only supported on v13.0.

TP Ref: 75107

New operation/Bug Fix: Live and Fast key assignment issues when too many mirrored keys in place

Explanation: A hard limit of 16 mirrored keys is now enforced for any given panel / key entity / key activation type combination. This fix also extends this enforcement to the online key assignment (EHX and HCI) as well as the panel fast key assignment features. Prior to these fixes stuck routes could result from key deletions.

1.3.2.3 Dynam-EC

TP Ref: 60164

New operation/Bug Fix: IFB eraser wasn't clearing down an Dynam-EC monitor

Explanation: When a Dynam-EC monitoring port was being used to perform a destination listen of an IFB this was not being cleared down when the IFB eraser was used in Dynam-EC. This has now been corrected.

TP Ref: 93013

New operation/Bug Fix: Dynam-EC didn't save non-contiguous tabs properly

Explanation: Resolved an issue whereby creating canvas tabs 1 to 5, populating them all and then deleting tabs 2 & 3, tabs 4 and 5 would be inaccessible after a save and reload the layout.

Clear-Com®
AN HME COMPANY

TP Ref: 95425

New operation/Bug Fix: Dynam-EC Canvas notes now additionally editable outside of assignment mode

Explanation: Canvas notes can now be edited or deleted when Dynam-EC is in all modes, whereas previously this was limited to assignment mode.

TP Ref: 94943

New operation/Bug Fix: Dynam-EC better indication of loading or inactive when in use

Explanation: Dynam-EC now shows the EHX style Clear-Com busy logo when loading live data as a visual indication the system is busy.

TP Ref: 98150

New operation/Bug Fix: Reversing cross-point macro gave unexpected results

Explanation: Resolved an issue where after reversing a macro, the initial crosspoint state was not always restored correctly.

TP Ref: 95439

New operation/Bug Fix: Updating ident/monitoring text to reflect current functionality

Explanation: Text updated to "Enable monitoring of directs on palettes that are not in use".

1.3.2.4   V-Series Iris

TP Ref: 84849

New operation/Bug Fix: IRIS Stuck on "Waiting for AES67" and does not recover.

Explanation: Measures put in place to detect and restart AES67 in this scenario.

Clear-Com®
AN HME COMPANY

TP Ref: 129342

New operation/Bug Fix: Error previously seen when running config check

Explanation: The config check panel diagnostics self-test utility would previously show an error when the field 'user-agent' did not exist in the request. This has now been addressed.

TP Ref: 128299

New operation/Bug Fix: Support added for the larger 64Mbit Flash device storage

Explanation: This version of firmware will now run on both the 64MB QSPI flash storage-based hardware design as well as the current 64MB device-based board.

TP Ref: 127841

New operation/Bug Fix: Panel LEDs could previously stick on following a matrix reconnect.

Explanation: When the panel now reconnects to the matrix all LEDs are reset back to the unlit state. Prior to this change the panel could sometimes show old LED states when the panel drops offline from the matrix.

TP Ref: 86353

New operation/Bug Fix: IRIS Stuck on blinking purple state.

Explanation: Fixed retry mechanism to avoid stuck state.

TP Ref: 86471, 86632

New operation/Bug Fix: Improved MAC to IP resolver to support gateway traversal and media clock offset.

Explanation: Feature added to improve MAC resolution across gateways.

TP Ref: 88067

New operation/Bug Fix: Improved Snapshot recovery from EHX.

Explanation: Snapshot creation took too long to complete and missed the window to be sent back to the IPA card. This is now addressed.

Clear-Com®
AN HME COMPANY

TP Ref: 88155, 88365

New operation/Bug Fix: DSP Crash on boot up

Explanation: Fixed a very occasional DSP crash on boot up.

TP Ref: 89692, 90844, 89696

New operation/Bug Fix: Added AES67 session alarms and counters

Explanation: Added support to show AES67 session alarms and counters in EHX.

1.3.2.5   E-IPA-HX

TP Ref: 96594, 90734

New operation/Bug Fix: All Panels went offline (Boost Assert).

Explanation: CRC Checker previously caused schedular lock ups. Checker now moved to background task.

TP Ref: 88940

New operation/Bug Fix: Card failure after 28 days of uptime.

Explanation: Memory leak on AES67 subsystem appeared when Duplicate IP Detection feature was added. Routine maintenance added to free memory.

TP Ref: 89443

New operation/Bug Fix: Show AES67 override values for AoIP endpoints.

Explanation: Stream name shown in media/link offset event log message.

TP Ref: 91386

New operation/Bug Fix: Removing AES67 LAN cable resulted in a stream still reading as good or connected.

Explanation: Some alarm information was not getting to the CPU card from the E-IPA card resulting in 1 or 2 streams reporting as online or good in EHX monitoring. This is now addressed.

TP Ref: 91387

New operation/Bug Fix: AES67 Network delay value written to EHX Event Log.

Explanation: AES67 Stream Network delay value is now written in Alarm message. This value can be used to set Link offset in EHX to bring audio back into its playout window.

TP Ref: 85883

New operation/Bug Fix: EDGE Transceiver stuck in blinking yellow.

Explanation: Race condition results in Transceiver being stuck in blinking yellow (No Sync). Now addressed.

TP Ref: 86471, 86632

New operation/Bug Fix: Improved MAC to IP resolver to support gateway traversal

Explanation: Feature added to improved MAC resolution across network gateways. Prior to this feature the only option was to enable ARP proxy on the network switch.

TP Ref: 128718

New operation/Bug Fix: Fix lock up seen on card shutdown

Explanation: Removed FCLOG in SIG handler to avoid lock up during shutting down.

TP Ref: 128839

New operation/Bug Fix: Miscellaneous fixes applied after code static analysis

Explanation: Memory leaks and potential out of bounds access addressed. Protection added for NULL cause in IVP reject message.

TP Ref: 130000

New operation/Bug Fix: One way audio issues seen on IPA beltpack roam

Explanation: One way audio could result on a roam from one E-IPA to another E-IPA card. This has been addressed.

1.3.2.6   E-Dante

TP Ref: 94149

New operation/Bug Fix: Dante trunk status was reported incorrectly.

Explanation: Stream status was not always correctly received from Dante module resulting in trucks down even though Dante controller said streams were up. This has been addressed.

TP Ref: 94508

New operation/Bug Fix: Support for E-Dante MK II Card Hardware

Explanation: A new version of the E-Dante card has been developed that uses a Lattice based FPGA and an updated PHY. The boot and application E-Dante firmware versions have been updated at v13.0 to support both the MK I and the MK II cards.

1.3.2.7   FREESPEAK II TCVR IP 19

TP Ref: 69798

New operation/Bug Fix: FPGA stability improvements.

Explanation: Fixed various Crashes and Bugs.

TP Ref: 72713,83005,83601

New operation/Bug Fix: FPGA Monitor improvements

Explanation: Reworked Minuet FPGA crash monitoring (FPGA ping check added).

TP Ref: 74579

New operation/Bug Fix: One way audio

Explanation: One way audio could occur on a boot up. This has been corrected.

TP Ref: 79940

New operation/Bug Fix: Sporadic PTP failure caused all transceivers to go down.

Explanation: Modified internal PTP parameter to stabilize PTP.

TP Ref: 80588

New operation/Bug Fix: Upgrade and Snapshot Improvements

Explanation: Changes made to the upgrade and snapshot capture.

TP Ref: 81738

New operation/Bug Fix: Fixed bug when switching between static and DHCP

Explanation: If you switch the device's IP address from static to DHCP it becomes unresponsive and needs to be rebooted to be contactable again.

TP Ref: 84435, 91383

New operation/Bug Fix: Excessive shutdown times

Explanation: Fixed main application shutdown to avoid extra delay of 90 seconds and some random crashes

TP Ref: 84849

New operation/Bug Fix: Stuck on "Waiting for AES67" and did not recover.

Explanation: Measures put in place to detect and restart AES67 in this scenario.

TP Ref: 86353

New operation/Bug Fix: IPT Stuck on blinking purple.

Explanation: Fixed retry mechanism to avoid stuck state.

TP Ref: 86471, 86632

New operation/Bug Fix: Improved MAC to IP resolver to support gateway traversal and media clock offset.

Explanation: Feature added to improve MAC resolution across network gateways.

TP Ref: 88067

New operation/Bug Fix: Improved Snapshot recovery from EHX.

Explanation: Snapshot creation took too long to complete and missed the window to be sent back to the IPA card.

TP Ref: 88155, 88365

New operation/Bug Fix: DSP Crash on boot up

Explanation: Fixed occasional DSP crash on boot up.

TP Ref: 89692, 90844, 89696

New operation/Bug Fix: Added AES67 session alarms and counters

Explanation: Added support to show AES67 session alarms and counters in EHX.

TP Ref: 96100

New operation/Bug Fix   Red LED driving errors

Explanation: fixed the double red steady LEDs issue upon network reconnection. Previously two LEDs went red(error) for some time.

2 Known Issues

This section details those issues that contradict the relevant manuals included in this release. These issues have not been resolved in v13.1.0 and are listed here to help you use the system more effectively.

2.1   E-IPA - Transceiver Bad Markers.

Very occasionally bad markers on a connection are reported in the event log. When this issue is seen the only current solution is to reboot the transceiver.

2.2   E-IPA Split Admin and IVC mode does not support Layer 3 Routing

IVC panels connected on a different subnet in turn utilising Layer 3 Routing will not connect if the IPA is configured with split IVC/Admin ports and the Admin port has a static IP.

2.3   E-IPA USB Stick removal and Large USB files

Large log files captured to USB can cause the E-IPA card to crash and removing the stick does not unmount correctly. The work around is not to not USB log for lengthy periods of time and reset the card upon removal of the USB stick.

2.4   I-Station Panel Upgrades

Central upgrade from EHX is not support on all I-Stations, when upgrading I-Stations with the serial number 45PC0001 or above you must contact your Clear-Com sales representative first.

2.5   V-Series panels upgrade issues.

The V-Series panel firmware is much larger than other panels' firmware (e.g., I-Series or ICS-1008) and as such cannot be stored in flash memory in the rack, as other panels firmware can be. It has to be retained in the buffer used to store firmware which is in the process of being downloaded to panels.

The result is that if a V-Series panel (V-Series, Iris and IrisX) upgrade is occurring and another panel type upgrade is begun, that new upgrade will over-write the V-Series panels firmware - in the middle of the V-Series panels upgrade. This breaks the upgrade. The recommended solution is to upgrade V-Series panels last.

2.6   V-Series Iris Panel Upgrade Issues

Central firmware upgrade of the V-Series Iris panel is only supported for AES67 connected panels. Panels utilizing other matrix connection types should be upgraded via USB stick (front or rear facing ports).

2.7   i-Station Expansion panel upgrade issues

It is recommended that if you are upgrading an i-Station expansion panel (e-1410E) then do so before upgrading its host i-Station panel. Upgrading the i-Station panel first can result in the e-1410E being unusable after upgrade – if this is the case then please contact your supplier.

Please note that the e-1410E upgrade is only required if it is prone to multiple key presses at the same time as there is a problem with the previous version 010112 when multiple keys (3 or more) are pressed simultaneously then the panel can reset.

2.8   Duplicate items in assignment mode of i-Station panel

There is a known issue with the display of duplicate items (or triple items on controls) are listed in the assignment mode of the i-Station panel

When the port is a Global IFB then EHX has to send a port and IFB entity to the rack and both get shown.

EHX must send 3 controls for each control to simulate talk/listen activation on attachments.

Therefore, they appear in duplicate/triplicate.

2.9   TEL-14 is unable to send multiple call signals to a panel.

There is a known issue when you configure a panel to enable call signal alerts. If you configure a TEL-14 interface to have a DTMF access code to the panel and enter the code to generate a call signal tone (91), the call signal tone is heard but if the audio route is removed by use of the 00 code, then re-established by entering 91 again then the call signal is not generated at the panel.

2.10 EHX Map Build Fails with Control Macros

There is a known issue where an EHX map with the older scripted Control Macros, (not Logic Maestro), that were previously working, stops building when attempting to download. To fix this for the current session restart the PC.

2.11 Aux Mic level cannot be set on i-Station panel.

There is a known issue that the i-Station panel Aux Mic level cannot be set by EHX

2.12 Fiber cards reporting TRANSCEIVER UP/DOWN

If one of the nodes in a multiple fibered system is faulty you may receive in the EHX logs multiple messages of the following format

FIBERCARD slot xx transceiver A UP

Or

FIBERCARD slot xx transceiver A DOWN

2.13 IVC-32 can disconnect and reconnect on Apply Change.

The user should be aware that any IP panel connected to an IVC-32 which has had its connection type set in the panel menus to something other than DEFAULT, and whose value does not match the connection type configured in EHX, will briefly drop offline after a non-intrusive download.

To avoid this happening, the required connection type should be set for the panel in EHX, and the connection type configured in the panel menus should be left at DEFAULT.

2.14 IP Panel will not automatically log in after TFTP upgrade.

An IP Panel will not automatically log in after being upgraded via TFTP. The panel needs to be restarted after the upgrade. The IP Settings should then be re-entered from the IP SETUP menu before the panel will be able to login.

2.15 Assigning remote groups via online mode fails

In a multi-system set-up, assigning a group from a remote system to a panel results in one of the local system groups showing up on the panel instead.

Making same assignment offline and downloading it to the system gives the correct result. Any subsequent online mode assignments of the same group will work, but assigning any other remote group in online mode fails again in the same way as described above

2.16 Rarely, a Fiber ring will not recover from loopback mode.

Sometimes when after the primary and secondary fiber connections fail, the system may not recover from loopback mode if the secondary connection only comes up. The system recovers correctly when the primary connection is restored.

2.17 IP Address Clash

Please ensure that there are no IP address clashes on the network.

If there is an IP address clash between an IVC-32 and another component on the network, then this may cause the IVC-32 to reset.

If there is an IP address clash between an IP panel and another component on the network, then this may cause the IP Panel to reset.

It is recommended that to reduce the possibility of an IP address clash that the panels are configured for DHCP mode (default mode).

2.18 Monitoring screen AES67 and Wireless Status information Issues

On larger installations, when higher volumes of state transition occur there can be times when the monitoring information is stale for certain elements.

2.19 Restart of daisy-chained Edge transceivers can cause beltpack disconnect.

Resetting a downstream Edge transceiver can result in beltpack disconnect due to a period of jitter of the PTP clock, and the transceiver audio may restart in this case.

2.20 Forced Listen and Talk & Forced Listen Key Group assignments Issues.

The Listen part of the FL and TFL within a Key Group assignments are not actioned.

2.21 Compatibility warning when closing down EHX.

On certain machines a compatibility warning is seen when shutting down EHX. A Program Compatibility Assistant window is displayed stating 'Did this program work correctly?'. There is no adverse side effect so of this issue and is only seen at shutdown of EHX.

2.22 E-IPA connected V-Series Iris panel sometimes shows a blank screen when disconnected.

Sometimes the offline screen of the V-Series Iris panel is not shown when the E-IPA connection to the panel is dropped. This is hard to reproduce and therefore not yet addressed.

2.23 Misleading PTP status in EHX PTP plots

When a device is down (e.g., IPA), there is no data in the status graphs (similar to the wireless status page). A plot is drawn between the last received point, to the first point of the new data. The data should of course be ground, but currently the plot can be misleading.

3 Configuration Issues

3.1   GPI-6 and RLY-6 Installation

During the configuration of GPI-6 modules and RLY-6 modules, the Eclipse HX
Omega\Median Systems requires the GPI-6 modules to be connected to the Eclipse HX
Frame first, and then each GPI-6 module is daisy chained. If RLY-6 modules are also to be
connected, they are required to be connected after the GPI-6 modules. If no GPI-6 modules
are used, then the RLY-6 module is connected to the Frame connector.

4 Support

4.1 DIG-2 and T-Adaptor Support

From Eclipse version HX 7.6 and above, the DIG-2 and T-adaptor modules are only supported on selected customer installs by previous agreement.

4.2 FreeSpeak 1 Transceivers and Beltpacks

From Eclipse version HX12 and above, obsolete FreeSpeak 1 transceivers and beltpacks are no longer supported.

4.3 HX-PiCo Support

Support for the HX-PiCo platform will cease from system release v14.0 onwards.