



Release Note



v14.1.0 Rev A

CUSTOMER RELEASE NOTE

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ECLIPSE HX VERSION 14.1.0 Rev A RELEASE NOTE

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CHANGES

Due to release process changes these Release Notes do not include:

- FreeSpeak II & Icon
- FreeSpeak Edge
- V-Series Classic, Iris & IrisX
- 2X10 Touch Panel

These products are used on multiple platforms and will be released independently along with compatibility chart referencing Eclipse HX.

These product documentation and firmware will be available on the Clear-Com website.

References to products and system components whose support has been deprecated, has been removed.

1 Introduction

1.1 Scope

This document describes the changes to the Eclipse HX system software within major version 14.

1.2 V14.1 Rev A – FreeSpeak Icon

Major version including official support for the FreeSpeak Icon beltpack in addition to software sustaining.

1.2.1 Features

143867	EHX CPU IPT FSII	FreeSpeak Icon BeltPack Support EHX, CPU, IPT and FSII-19 E1 now supports configuration and connections for FSIC-BP19 (FreeSpeak Icon) Beltpacks. In addition to having 9 assignable keys on FreeSpeak Icon now also supports the following: "Special Keys" Flashlight, MIC/Speaker and Dark mode Toggle are now assignable to keys, "Main Volume Limit" providing min and max levels per Beltpack.
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1.2.2 Enhancements

143346	EHX CPU	Assignable RPN ID for TCVRs RPN ID transceiver numbers can now be modified.
186370	CPU	HCI BeltPack Management API HCI API to add and remove beltpack registration on a matrix.

1.2.3 Bug Fixes

182514	E-IPA	IPA connection over Layer 3 boundary not working Fixed MacResolver which caused connection issues over Layer 3 routed networks.
192589	D-EC	Can not remove canvas tab Fix to allow the removal of canvas tab in Dynam-EC.
192125	D-EC	Volume Cut/Un-cut Issue Fixed Dynam-EC jumping back to -9 instead of 0 when one

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		cuts and un-cuts the volume and changes the selection in between.
192768	D-EC	Crosspoint Redraw Issue Dynam-EC does not show all crosspoints although they can be seen in EHX.
192195	EHX	Client Server Error Fixed error when selecting a beltpack role on the wireless status screen in Client Server mode.
187569	EHX	Inconsistent Edge signal strength colors on status screen Fixed signal strength showing red for some beltpacks and green for others although the level of bar is the same.
191055	EHX	Duplicate IP check includes IVC Direct Remote IP Fixed when an IVC/IPA card anywhere in the system has an IVC Direct set to VoIP Caller and the IP address of that device conflicts it won't be allowed, and an error message will show.
187802	EHX	EHX TFTP Exception Fixed EHX exception that may occur when upgrading an EQUE card.
187804	EHX	Panel Programming Exception Occasionally an exception occurs in the panel programming screen
188794	EHX	Import keysets did not work for Roles Fixed imported keysets that did not apply the keys to Roles as expected.
188879	EHX	Duplicate Beltpacks created when importing from CSV Fixed by removing duplicate beltpacks when importing from a CSV file.
189715	CPU	Audio presence vox tally not working for beltpacks Fixed Vox Tally presence for beltpacks.
186972	CPU	Beltpack Tallies turn off after Apply map without reset If you modify a sort group key from a BP the next map apply to Matrix will remove all the keyset colors

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182440	CPU	Stuck crosspoints caused by remote key assign Fixed stuck crosspoint issue when using VSM HCI message 235 to configure keys that are mirrored.
162520	IVC32	Malformed Packets Prevent IVC connections Fixed erroneous packets received on the IVC port from disabling IVC connections.

1.2.4 Firmware versions of linked or sub-systems

While not a part of this release, this release was tested with devices using the following firmware versions.

Product	Versions
V-Series Iris & IrisX	6.81.73.0
V-Series Classic	4.11.24.0
2X10	316.4
FSII BP – 1.9GHz	5.19.32.0
FSIC BP – 1.9GHz	1.18.93.0
FSII E1 TCVR – 1.9 GHz	3.6.28.0
FSII IPT – 1.9 GHz	7.14.67.0
FSII BP – 2.4 GHz	3.2.50.0
FSII E1 TCVR – 2.4 GHz	2.2.49.0
FSE BP – 5GHz	5.4.79.0
FSE IP TCVR – 5GHz	4.29.77.0

1.3 V14.0 Rev A – E-IPA SIP & 2022-7

1.3.1 Features

1.3.1.1 SIP on E-IPA Card

The HX E-IPA card now supports SIP client ports natively. All the call management functionality previously available when connected to an external LQ unit is now available via the licensed SIP port feature of the E-IPA.

The call management features include connection to an external SIP server, incoming and outgoing call handling, SIP info message based inward audio port routing, panel dialing via dial pad or speed dial controls, Dynam-EC contact list management, call control and status display.

1.3.1.2 SMPTE ST 2022-7 on E-IPA Card for AES67 direct and trunking connections

The E-IPA AES67 direct and trunk ports now support the SMTE ST 2022-7 standard. This allows the configuration of two networks (the red and the blue network) and delivers a hitless switchover between these networks upon failure of one or the other. This redundancy feature is also supported when the card is operating in NMOS is-04/is-05 mode.

1.3.1.3 2X10 Panel Role Based Operation

The 2X10 panel has now been added to the list of endpoints that support the role-based workflows. Users are now able to use and move their virtual audio source/destination on and between all panel and wireless beltpack types. This enables numerous mobility and hardware redundancy workflows.

1.3.1.4 Dynam-EC Optimizations for Large Systems and Linked Sets

A number of optimizations have been applied to the Dynam-EC application to enable it to better manage the larger systems and linked sets.

These optimizations include the faster rendering of assets uploaded from and matrix, tabbed access to assets from multiple matrices and targeted asset reload when single frames in a linked set receive new configuration.

1.3.1.5 Source-Specific Multicast (SSM) support on E-IPA Card AES67 Directs and Trunks

Source-Specific Multicast (SSM) is now supported for AES67 directs hosted by the E-IPA card. SSM is a method of delivering multicast packets that only sends traffic from a specific source to a receiver that has requested it. SSM is an extension of IP multicast and is designed to improve security and reduce network demands.

1.3.1.6 NMOS is-04 Static Registry Configuration

To support NMOS is-04 across multiple networks the HX system now supports the static configuration of the NMOS registry IP address. Previously the NMOS registry could only be discovered, therefore relying on the devices all being on the same network.

1.3.1.7 Increased Beltpack Registrations

The previous limit of 200 beltpack registrations per matrix has been raised to 320. For the moment, the existing limit of 200 connected beltpacks still exists.

1.3.1.8 Beltpack Registration .CSV File Import/Export

The ability to import and export beltpack registrations to/from the current configuration has been added at v14. This is an extension to the .csv import export functionality.

This feature allows a new configuration to be created for a matrix without the need to re-register beltpacks.

This feature supports all types wireless beltpack registration.

1.3.1.9 Panel Programming Screen Optimizations

New features were added to the panel programming screen palette configuration to allow users to assign keys to panels or roles more efficiently. An option has been added that enables the assignment of the selected target to all the endpoint types associated with a role.

Additionally, a particular panel or role can now be used to filter all the selectable key targets in the palette. This is a logical way to find assignable keys for many EHX i.e. when moving or copying from one device to another.

1.3.2 Bug Fixes

1.3.2.1 EHX Configuration Application

TP Ref: 171128

New operation/Bug Fix: Talk and Listen Key groups configuration error corrected.

Explanation: As a result of the addition of the talk with auto listen key activation feature an issue was introduced with talk and listen key-group assigned keys. The error was that the key would activate as a talk with auto listen. This has now been corrected.

TP Ref: 186296

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New operation/Bug Fix: PL Keys Latch disable configuration being lost on Apply Changes download now fixed.

Explanation: In the case where both multiple matrices are in a system and the current configuration has just been uploaded from the matrix an issue existed where PL keys that should have been latch disabled were latch-able for one download. This was correct on a second download. This was caused by the incorrect use of a map building data cache. It has now been corrected.

TP Ref: 171793

New operation/Bug Fix: Issue displaying expansion panel keys corrected

Explanation: Panel programming of V-Series expansion panels was recently broken when optimizations were applied to the panel programming screen performance. This has now been corrected.

TP Ref: 173543

New operation/Bug Fix: Map Build Fails with Trunked 13.1 Frames

Explanation: The map build could previously fail with a 'Key xxxxxxxxxxxx already exists' exception on trunked systems. This has now been corrected.

TP Ref: 178094

New operation/Bug Fix: 'Go to Key Destination' on a panel could previously result in EHX crash.

Explanation: Using the go to destination feature of the panel programming screen it was previously possible to fail EHX when this feature is used on multiple keys. This has now been corrected.

TP Ref: 180239

New operation/Bug Fix: Unable to tick always selectable on certain roles, now adjusted.

Explanation: Previously, if a role that was fixed role assigned to device EHX would not allow the 'Always Selectable' option to be selected on that role. This is now allowed. It is useful, especially when using virtual clients and role-based workflows.

TP Ref: 181551

New operation/Bug Fix: EHX crash when on the PTP screen

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Explanation: A multi-threading issue could previously cause an EHX reset when viewing the PTP diagnostics screen. This has now been corrected.

TP Ref: 181348

New operation/Bug Fix: Config card Primary LAN still shows good even when it has been disconnected

Explanation: A recent change to EHX resulted in the disconnection of the secondary LAN connection to CPU card not being shown on the monitoring screen. This has now been corrected.

TP Ref: 184275

New operation/Bug Fix: Virtual Client Talk Key Activation Options

Explanation: An error was introduced where too many key activation types were shown as selectable against the virtual client talk keys. This has now been corrected.

TP Ref: 184472

New operation/Bug Fix: Cancelling out of a USB firmware update causes EHX to crash. Now fixed.

Explanation: EHX could previously reset if the USB connection to a wireless beltpack was removed during the firmware upgrade of the beltpack. This has now been corrected.

TP Ref: 150597

New operation/Bug Fix: Key save and key restore issue on EHX 13.1

Explanation: The key save and restore feature was broken in the v13.1 release with the addition of role-based workflows. This has now been corrected.

TP Ref: 150041

New operation/Bug Fix: Beltpack 'Panel Programming' link from Monitoring was incorrect

Explanation: Right-clicking on a Beltpack in the Monitoring screen allows the user to link-through to the panel programming screen - this link was previously taking the user to "Roles" screen. This has now been corrected.

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TP Ref:	149694
New operation/Bug Fix:	Panel configuration issues after converting panel from IVC to AoIP
Explanation:	When a panel connection type was converted from IVC to AoIP the panel aux port settings and panel mixer settings would not be converted correctly. This has now been corrected.
TP Ref:	149402
New operation/Bug Fix:	Backup Key Status now added to the EHX diagnostics zip file.
Explanation:	When the EHX diagnostics zip is now taken for a system, this will include a backup file of the current key status.
TP Ref:	150198
New operation/Bug Fix:	Crosspoint map issues with roles sessions
Explanation:	Prior to this release EHX crosspoints didn't disappear from the crosspoint map after role session ends or a beltpack roams. This has now been corrected.
TP Ref:	147776
New operation/Bug Fix:	Volume bars visible in supervisor mode after keys cleared
Explanation:	When the keys were cleared from a panel in online mode and then the panel is subsequently supervised in EHX then volume bars were visible in all the cleared key locations. This has now been corrected.

1.3.2.2 CPU Card Application

TP Ref:	184914
New operation/Bug Fix:	NVRAM Re-Init Event Log Removal
Explanation:	Due to a code merge error the matrix boot-up events would always previously report an 'NVRAM initialization problem – Check Battery' event. The event was output regardless of the NVRAM state. This has now been corrected to only output on error.
TP Ref:	187155

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New operation/Bug Fix: Beltpack Auto-Handover utility fixed for E1 transceivers

Explanation: An issue was introduced in an early v13.2 release where RPN IDs were not being loaded correctly for E1 transceivers. The only known consequence was that the auto-handover test utility would no longer function. This has been corrected.

TP Ref: 184298

New operation/Bug Fix: Incorrect fan failure errors seen on Delta matrices now corrected.

Explanation: Due to an error in the PSU alarm messaging interface the Fan 1 and 2 failures were often seen in the matrix overview summary of the event log, also in the EHX monitoring screen. The timing on this hardware interface has now been adjusted and the error is no longer seen. The error was seen more often on the MK II CPU card.

TP Ref: 181103

New operation/Bug Fix: MIC open issue potentially encountered when the local 2X10 panel cut key menu used now fixed.

Explanation: The use of the 2X10 panel local menu to change the mode of the cut key could previously leave the mic open when shifting to the LS cut mode. This has now been addressed.

TP Ref: 182440

New operation/Bug Fix: Stuck routes encountered when moving keys online via the certain HCI clients

Explanation: The Remote Key Action HCI API method of deleting and added keys could previously result in stuck routes when the key being deleted and added mirrored others, and these keys were in a latched state. Routes are no longer stuck in these scenarios.

TP Ref: 179827

New operation/Bug Fix: CPU card watchdog reset associated with E-IPA card pull now fixed.

Explanation: Part of the initialization processing the E-IPA card could result in a matrix reset if the E-IPA card was pulled or reset. This has now been corrected.

TP Ref: 181086

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New operation/Bug Fix: Loss of V-Series panel audio on full system reset

Explanation: On a full system reboot the panel mixer configuration messaging to the panel could be corrupted with it being interleaved with other types of panel protocol messaging. This has now been corrected. The panel mixer block of configuration is now guaranteed to be contiguous.

TP Ref: 178401

New operation/Bug Fix: improve handling of handover between two systems with same RF ID

Explanation: In certain large wireless systems, it could be useful to use the same the system wireless ID on multiple matrices. With the mirroring of beltpack registrations on these matrices the system allows beltpacks to automatically connect to different matrices in the same system. In this type of system, the different matrices should be RF isolated from each other, but to handle the case where a beltpack is able to see transceivers of different matrices this fix is required to allow the beltpack to gracefully disconnect from the first matrix and connect to the second. Note, this type of transceiver roam will result in the beltpack disconnecting and (automatically) reconnecting, with an audio outage.

TP Ref: 177442

New operation/Bug Fix: Control keys firing mute relay now supported

Explanation: The activation/deactivation of a panel mute relay from a control did not function in the previous release. This has now been corrected.

TP Ref: 167960

New operation/Bug Fix: Missing sort group members in local assign panel menu now corrected

Explanation: When a key had previously been deleted from a panel key position the properties of this deleted key were being used in the configuration checks to establish if a sort-group member potential key target was allowed on a particular key. This resulted in members of the sort-group not being deemed assignable when they should have been. This has now been corrected.

TP Ref: 176074

New operation/Bug Fix: Preset talks to remote IFB now functioning

Explanation: Preset talks to remote IFBs were previously able to be configured, however did not go down to the matrix in the map. This has been corrected.

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- TP Ref:** 177322
New operation/Bug Fix: Remove option to disable data cache via dip switch
Explanation: Prior to the current release SW3 dip switch 1 on the CPU card needed to be set to enable the HX higher processing speeds (chip level data cache enable). This functionality is now always enabled without the need for the switch to be enabled. This switch now has no associated function. Reserved for future use.
- TP Ref:** 176240
New operation/Bug Fix: EHX role disconnect notification changed
Explanation: If EHX was previously used to end a role session the endpoint would report (e.g. via its built-in display) that the source of the session disconnection was 'PC Client'. This text has now been changed to 'Admin'.
- TP Ref:** 176005
New operation/Bug Fix: 2X10 online key assignment issues
Explanation: There were previously issues with the key mapping used on the 2X10 panel and the format online keys are stored in, in non-volatile memory. This has been corrected in this release.
- TP Ref:** 176008
New operation/Bug Fix: Online key assign and fast assign not allowed for invalid port targets
Explanation: The fast-assign V-Series panel feature would previously allow illegal targets to be placed on panel keys e.g. trunk or transceiver ports. This has now been corrected.
- TP Ref:** 168345
New operation/Bug Fix: Station IC licensing error when no licenses available
Explanation: The disconnection of an unlicensed (demo mode) Station-IC client resulted in an incorrect licensing event log message where it was assumed to be an Agent-IC license disconnection. This has been corrected in this release.
- TP Ref:** 75080
New operation/Bug Fix: EHX role disconnect notification changed

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Explanation: Prior to this release any endpoint role sessions ended by EHX or an HCI client were being reported at the endpoint as an "PC Client" ended session. This was reported to cause confusion and therefore the source of the role session termination is now reported to be "Admin".

TP Ref: 168115

New operation/Bug Fix: Add DNS support for SIP

Explanation: In order to support the specification of a SIP server via hostname the E-IPA card now supports the configuration of a main and backup DNS server IP address.

TP Ref: 172324

New operation/Bug Fix: 2X10 Panel SIP dial screen addition

Explanation: To coincide with the addition of the native E-IPA SIP client support, the 2X10 panel now supports the manual dialing out on a matrix connected telephony interface. These include TEL-14, the E-IPA SIP ports and LQ SIP ports. This work involved the 2X10 panel accessing the matrix hosted menu system. Now that this is in place the 2X10 panel can now also access the central system information menus of the matrix.

TP Ref: 168093

New operation/Bug Fix: fix potential rack crash while processing role request

Explanation: A matrix reset caused via a race condition in beltpack session connection has been fixed in this release. The issue was not introduced recently but had a very low probability of occurring.

TP Ref: 63007

New operation/Bug Fix: Role based panels Logic Panel Operation tally features now supported

Explanation: The logic screen panel actions were not previously supported by roles. This meant that these features have never been supported on beltpacks. With the new addition of role-based workflows on the other endpoint types on the system this omission was deemed less acceptable. Roles are now supported by this feature, on all endpoint types.

TP Ref: 161567

New operation/Bug Fix: CPU Ethernet config message is confusing

Explanation: The E-IPA card LAN port status information output in the event log 'Matrix Overview' has been updated to remove confusion. The number in brackets following the word LAN previously contained an interface type number. This number is now the physical LAN ID.

TP Ref: 148285

New operation/Bug Fix: EHX monitor shows all alarm states

Explanation: The monitoring screen now clearly shows the primary and secondary Rx Stream Alarm Status for a LAN port in the IP Connection tile, for example 'Receiving Packets'. This state is shown as the 'State' field directly under the card ID.

1.3.2.3 Dynam-EC

TP Ref: 176809

New operation/Bug Fix: SIP Dynam-EC - Call state not refreshed on Dynam-EC reconnect

Explanation: The state of an in-progress SIP call was previously lost on a matrix refresh of Dynam-EC. This has now been corrected, the current state of SIP call is resynchronized as part of the matrix refresh.

TP Ref: 144341

New operation/Bug Fix: Dynam-EC: Sort by Type needs to differentiate BPs and Panels

Explanation: The roles displayed in the Dynam-EC palette were previously in a section entitled 'FreeSpeak Beltpack Roles'. Now that roles are supported on non beltpack endpoint types this section title has been updated to be 'Roles'.

TP Ref: 145978

New operation/Bug Fix: role-based panels can be dragged into a Preset Conference

Explanation: The preset conference application feature now supports role-based panels.

TP Ref: 145852

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New operation/Bug Fix: Dynam-EC IFB summary screen not dimming unused roles

Explanation: When the panel connection indication feature is enabled on a port or role the connected state of this port or role is shown in Dynam-EC i.e. greyed or lit. The IFB summary screen previously did not support the greyed mode of display. This has now been added.

TP Ref: 128954

New operation/Bug Fix: Usability Feature Request - Caller ID string matching

Explanation: In Dynam-EC, in order to control the alias on an incoming SIP line, the contact card SIP/Tel previously had to match exactly to incoming caller information string. For example:

Incoming phone number: 7348120485 is "Sally B"

Sally B is calling into the system through RingCentral > LQ SIP. The SIP Server is 199.255.120.176

The resulting incoming establishing line is <7348120485@199.255.120.176>

In this release Dynam-EC matches the contact card if the call information string contains (as opposed to perfectly matches) the call card string and in the above example Sally B would be displayed on the SIP client panel keys.

TP Ref: 159013

New operation/Bug Fix: Dynam-EC German encoding issue

Explanation: In certain regions it was found the Dynam-EC could not import an .hxn file. Instead of a loaded project the user would see an exception error. The root of the issue was found to be certain language region combinations not supporting the default code page used by the application when compressing data. In this situation a new default will be provided to ensure data can be saved and reloaded. This issue has therefore now been corrected.

TP Ref: 54716

New operation/Bug Fix: Network Admin map downloading to read-only frames

Explanation: Implemented restriction to only download to writeable matrices. if there are locked frames both local admin and network admin can now only download to all their writeable matrices, and only those. this is not a change of feature for local admin, just a time saver, do not have to do each individually. This is a feature reduction for network admin as previously he was able to download (incorrectly maybe) to locked matrices.

1.3.2.4 V-Series Iris

TP Ref: 172433

New operation/Bug Fix: Additional Log Up Down option added to Info menu

Explanation: If an issue is suspected to occur in the Panel, the debug level can be increased, the fault replicated and then a support info snapshot taken and sent to a field engineer for analysis.

1.3.2.5 E-IPA-HX

TP Ref: 168197

New operation/Bug Fix: Fixed IPA resetting on Apply Map with no reset

Explanation: When applying a map without a reset the IPA would sometimes detect a change in NMOS settings and reboot the card to apply the new settings.

TP Ref: 174052

New operation/Bug Fix: SIP Call showing as connected before the call is answered

Explanation: When placing a call in Dynam-EC to a SIP phone it would show the call as established before the receiving end client answers. This release now shows the state of the SIP client as 'Connecting' until the user accepts the call. Note – This fix is in place for calls placed on E-IPA SIP client ports. In a future LQ release LQ SIP ports will inherit the same fix. This HX system release supports the current LQ SIP port operation as well as the future (corrected) operation.

1.3.2.6 E-Dante

TP Ref: 170754

New operation/Bug Fix: E-Dante CPU Crash fix.

Explanation: E-Dante CPU would halt when a TX flow with greater than 4 channels is created. This has been corrected.

1.3.2.7 FreeSpeak II 2.4 Beltpack App

TP Ref: 139829

New operation/Bug Fix: FSIIBP sidetone control not working from Arcadia's CCM.

Explanation: Disabling the sidetone from CCM wouldn't change state. Sidetone would still be there. When going from disabled to non-tracking the sidetone is disabled.

TP Ref: 138103

New operation/Bug Fix: Role based workflows - Beltpack remote session end screen.

Explanation: If a role-based endpoint session is ended by another endpoint stealing the session the new endpoint info is displayed on a session ended screen on the previous endpoint. The FSII 2.4 beltpacks will additionally show this information.

TP Ref: 133607

New operation/Bug Fix: Role Teams (Folders) Support on FSII24.

Explanation: The new version of FS II 2.4 beltpack is produced to support:

The user can first select a team and then the role within that team instead of simply selecting a role from the full (up to 200!) role list.

The user needs to be able to move and out of teams i.e. 'go back'

1.3.2.8 FreeSpeak II IP 1.9 Transceiver

TP Ref: 166587

New operation/Bug Fix: Additional carriers added to US DECT 2 Region

Explanation: New region added to the Transceiver.

TP Ref: 142537

New operation/Bug Fix: IPT: No audio from 4W to FSII PP.

Explanation: Bug Fixed: There was no audio from 4w to FSII Beltpack both directions. 4W to other directions was working fine, had to reboot the beltpack before audio came back.

2 Release Components

2.1 Eclipse HX Software / Firmware

	Part No	Description	Device	File Type	C/Sum	Rev	Issue	Last updated
SOFTWARE								
Software	SOF-00292	ECLIPSE HX CONFIG		.EXE	n/a	B	36.47.1.0	v14.1.0A
Software	SOF-00293	ECLIPSE HX DYNAM-EC		.EXE	n/a	B	27.9.4.0	v14.1.0A
Software	SOF-00296	ECLIPSE HX INSTALLER EHX & DYNAM-EC		.EXE	n/a	B	V2.0 EHX 36.47.1.0 Dynam-EC 27.9.4.0	v14.1.0A
CPU-208 CARD FIRMWARE								
Software	SOF-00294	ECLIPSE HX CFG CARD APP OMEGA, MEDIAN, DELTA		FWR	n/a	B	36.27.2.0	v14.1.0A
Drivers	790001Z	CONFIG CARD BOOT EPROM CODE OMEGA & MEDIAN ECLIPSE	ST 27W201	S Record	5468	B	2.4.22.0	v7.0.0 A
Software	SOF-00233	CONFIG CARD SECONDARY BOOT CODE		FWR	n/a	B	34.5.71.0	v14.0.0A
Drivers	710622Z	CONFIG CARD U1 CPLD CODE	XC9572	JED	681F	D	0.4.21.0	v7.1.0 A
Drivers	710623Z	CONFIG CARD U53 CPLD CODE	XC95144	JED	330F	B	0.2.27.0	v7.1.0 A
Drivers	710624Z	CONFIG REAR CARD CPLD CODE	XC9572	JED	9411	4 / D	C	Pre v4.2
MVX-16 CARD FIRMWARE								
Drivers	780G012	MVX-HX APP ECLIPSE OMEGA/MEDIAN & PICO		FWC	n/a	C	2.62.7.0	v12.1.0A
Drivers	780G015	MVX-HX BOOT ECLIPSE OMEGA/MEDIAN & PICO		FWC, MOT	n/a	A	2.57.6.0	v10.0.0D
Drivers	780G011	MVX-HX COMBINED BOOT & APP H8 FLASH, ECLIPSE & PICO		BIN, MOT	n/a	C	2.62.7.0 & 2.57.6.0	v12.1.0A
Drivers	710625Z	MVX-HX MK-I FPGA PROM CODE ECLIPSE	XC18V04	MCS	031F12B9	J	1.2.18.0	v7.0.0 A

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	Part No	Description	Device	File Type	C/Sum	Rev	Issue	Last updated
Drivers	780G010	MVX-HX MK-II FPGA FLASH MVXMK2		.MCS	MCS 0x33d8c7d2 Flash 0x000487a39	D	2.10.47.0	V12.2.0A
E-IPA CARD FIRMWARE								
Drivers	SOF-00224	E-IPA-HX APPLICATION FIRMWARE		.ccf	n/a	D	App: 10.95.63.0 Boot: 2.0.65.08 FPGA: 19.31.64.0 QSPI: 2.0.10-j635_Clearcom Kernel: 4.19.59	v14.1.0A
E-DANTE CARD FIRMWARE								
Drivers	780G048 BNII_064	E-DANTE64-HX BROOKLYN II FPGA/APP/CFG COMBINED		.dnt	n/a	E	BKLYN II App 4.2.3.13 BKLYN II FPGA 4.0.4.2 CC App 1.3.61.0 Config 1.6.0	v13.1.0A
Drivers	780G048 BN3_064	E-DANTE64-HX BROOKLYN 3 FPGA/APP/CFG COMBINED		.dnt	n/a	E	BKLYN 3 App 4.2.4.8 BKLYN 3 FPGA 4.2.0.25 BKLYN ROM/Boot 4.2.4 Config 2.1.0	v13.1.0A
Drivers	SOF-00178	E-DANTE64-HX MK I & II H8 Application		.fwc	n/a	B	1.9.58.0	v14.0.0A
Drivers	SOF-00179	E-DANTE64-HX MK I & II H8 Boot		.fwc/.mot	n/a	B	1.9.57.0	v14.0.0A
Drivers	SOF-00180	E-DANTE64-HX MK II & II H8 APP & BOOT COMBINED		.mot	n/a	B	H8 APP 1.9.58.0 H8 BOOT 1.9.57.0	v14.0.0A
Drivers	780G043	E-DANTE64-HX H8 DSP		.fwc	n/a	A	1.4.60.0	v8.8.0A
Drivers	780G037	E-DANTE64-HX H8 MK-I FPGA		.fwc	n/a	E	1.4.59.0	v13.0.0A
Drivers	SOF-00159	E-DANTE64-HX H8 MK-II FPGA		.fwc	n/a	C	2.13.88.0	v13.1.0A
E-MADI CARD FIRMWARE								
Drivers	SOF-00181	E-MADI CARD APP			n/a	A	1.7.9.0	v13.0.0A
Drivers	SOF-00182	E-MADI CARD BOOT			n/a	A	1.7.8.0	v13.0.0A
Drivers	790012Z	E-MADI CARD DSP			n/a	A	1.4.11	v5.2.4

ECLIPSE HX VERSION 14.1.0 Rev A RELEASE NOTE

	Part No	Description	Device	File Type	C/Sum	Rev	Issue	<i>Last updated</i>
Drivers	790009Z	E-MADI CARD FPGA			0x16fab7e	F	1.13.12.0	v10.0.0D
Drivers	SOF-00183	E-MADI MK-I, II and III H8 BOOT/APP COMBO				A	H8 Boot 1.7.8.0 H8 App 1.7.9.0	v13.0.0A
Drivers	780G041	E-MADI MK-II FPGA		MCS, SVF, FWC	0x169b804c	E	2.6.62.0	v10.0.0D
Drivers	SOF-00160	E-MADI MK-III FPGA		MCS, SVF, FWC	n/a	A	3.2.89.0	v13.0.0A
E-FIB CARD FIRMWARE								
Drivers	710794Z	E-FIBER NETWORKING (REAR) FPGA		MCS	010f82f5c	4 / D	1.23	v5.1.1
Drivers	710793Z	E-FIBER ROUTER (FRONT) FPGA		MCS	010f73f00	4 / D	1.21	v5.1.1
E-QUE / IVC-32 / LMC-64 CARD FIRMWARE								
Drivers	785G053	E-QUE APP MK-I & MK-II ECLIPSE		.IMAGE	n/a	K	7.40.5.0	v14.1.0A
Drivers	710810Z	E-QUE BOOT ROM CODE		SREC	DBB8	2 / B	1.4	v5.0.3
Drivers	710807Z	E-QUE MK-I FPGA	XCF16PVO48C	MCS, SVF	0x11a2d405	J	0.25.16.0	v10.0.0A
Drivers	790004Z	E-QUE MK-II BOOT ROM CODE		BIN	n/a	A	1.8.13.0	v5.2.4
Drivers	790006Z	E-QUE MK-II FPGA		MCS, SVF	0x119ef9f8	C	1.5.17.0	v10.0.0A

2.2 Eclipse HX Documentation

Part No	Description	Rev	Doc Issue	Last Updated
SOFTWARE				
399G158	ECLIPSE HX QSG	A	A	v8.5.0A
PUB-00274	ECLIPSE HX CONFIG SW GUIDE	B	B	v14.1.0A
399G265	ECLIPSE HX DYNAM-EC QSG	A	A	v10.0.0A
PUB-00275	ECLIPSE HX DYNAM-EC USER GUIDE	A	A	v14.0.0A
PUB-00276	ECLIPSE HX UPGRADE GUIDE	B	B	v14.1.0A
PUB-00286	ECLIPSE HX UPGRADE SUPPLEMENT GUIDE	B	B	v14.1.0A
PUB-00287	ECLIPSE HX CUSTOMER RELEASE NOTE	B	B	v14.1.0A
PUB-00283	ECLIPSE HX E-IPA-HX LICENSING QSG	A	A	v14.0.0A
PUB-00189	ECLIPSE HX LOGIC GUIDE	A	A	v13.0.0A
HARDWARE				
399G050	ECLIPSE HX DELTA PSU BRACKET MOUNTING INSTRUCTIONS	B	B	v13.1.0A
PUB-00235	ECLIPSE HX DELTA USR GUIDE	B	B	v14.0.0A
PUB-00237	ECLIPSE HX MEDIAN USR GUIDE	B	B	v14.0.0A
PUB-00236	ECLIPSE HX OMEGA USR GUIDE	B	B	v14.0.0A
PUB-00229	ECLIPSE HX FRAME INSTALLATION GUIDE	A	A	v13.1.0A

3 Known Issues

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

ECLIPSE HX VERSION 14.1.0 Rev A RELEASE NOTE

EHX	Configuration Import Support This version of EHX will only support configuration files from version 11.0 and onwards. Older configuration files will need to be opened and saved in EHX 11-13.
EHX	EHX will not download Control Logic If previously working Control Logic stops EHX from downloading, please restart EHX.
EHX	Online assignment of remote system Fixed Groups Online assignment of Fixed Groups on another system is not supported. Assign remote Fixed Groups offline and apply changes.
EHX	Monitoring screen limitations EHX monitoring screen can lag on larger systems or erroneously draw lines between datapoints where previously there was no monitoring data.
EHX	Key Group Forced Listen Listen from FL and TFL Key Group assignments are not actioned.
EHX	Unable to find specified file exception opening the wireless status screen EHX throws an exception
E-IPA	E-IPA Split Admin and IVC/I.V. – Layer3 IVC panels connected on a different subnet in turn utilizing Layer 3 Routing will not connect if the IPA is configured with split IVC/Admin ports and the Admin port has a static IP.
E-IPA	E-IPA in PTP Follower Mode can reset on apply changes Rarely, an E-IPA card reboot can occur when the card AoIP PTP mode is set to PTP follower only mode, the card is not on an AoIP network that is supplying PTP and has recently been upgraded.
IVC-32	IVC-32 Panel connection reset on Apply Change with specific settings 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 Apply Changes.
TEL-14	TEL-14 only sends one call signal to a panel For further information see PUB-00284 Rev B

ECLIPSE HX VERSION 14.1.0 Rev A RELEASE NOTE

IPT/EHX	In EHX an EDGE Channel scan reads 100% for all Channels Occasionally an EDGE transceiver scan from EHX will read 100% for all channels. Rebooting the transceiver fixes it.
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4 Historical

Please find previous release notes in document Part No. PUB-00241 Rev B

4.1 Major Eclipse HX Releases

13.1	Role-based workflow NMOS 4 and 5 on E-IPA card Support 2X10 Touch 20-Key Touch Screen Desktop Panel
13.0	E-IPA Card Redundancy (N+1 and N+N) E-IPA Network Redundancy E-IPA Layer 3 AES67 devices Panels and Transceivers E-IPA support only for Rev3+ or higher cards. Contact Clear-Com for information Dynam-EC Panel Macros and Alt Text Permanent Station-IC license hosted from Eclipse frame. Requires Station-IC v1.3+ Support for daisy chaining IP Transceivers and V-Series Iris panels is deprecated
12.4	Adjustable PTP Offset
12.2	Binaural Partylines
12.1	FreeSpeak E1 Transceivers Support on E-IPA card Station-IC Support on E-IPA card Support of 5 x E-IPA cards in Eclipse Omega Frame 5GHz Scanning
12	FreeSpeak EDGE Support on E-IPA card SMPTE 2110-30 Support on E-IPA Card Linking multiple fiber rings Multiple Wireless IPA Cards in a Single Matrix Deprecation of FreeSpeak I / CellCom Support
11.1	Delta Lite Introduction Various enhancements

ECLIPSE HX VERSION 14.1.0 Rev A RELEASE NOTE

11	V-Series Iris Support Panel supervisor control from EHX FSII RF Filter PTP telemetry plots in EHX
10	E-IPA card support FreeSpeakII IPT support FSII Wireless Diagnostics
9.1	LQ SIP support V-Series panel keys can be managed by third-party using HCI Virtual IFB Crosspoint actions in Logic
9	V-Series 32 lever keypanel & 16 lever expansion panel support Re-introduction of support of ICS-22, ICS-1008 & ICS-1016.
8.8	Dante card support for directs and trunking
8.7	LQ to IVC32 connectivity support Sort Group scrolling assignments on V-Series Keypanels and FSII BP V-Series enhancements
8.5	Virtual IFB FSII 2.4GHz support Agent IC support Up to 6 High Powered cards on an Omega V-Series Panels over MADI
8.0	Hosted Directs on IP connected V-Series Keypanels
7.6	FreeSpeak II Support
7.1	IVC32 Trunking and Directs IVC32 Card Redundancy Alt Text option for keypanel labels
7	Eclipse HX Introduction

5 Support

5.1 Discontinued Support

This section contains a list of products which support has been deprecated.

Product	Final EHX Support
DIG-2	7.6
T-Adaptor	7.6
Concert	11.1
FreeSpeak I / CellCom	11.1
PiCo	13.2

Newer EHX versions than listed herein are not developed or validated for use with these products.