For Eclipse HX and LQ Series



Key Features and Benefits

Station-IC Virtual Desktop Client

- For: Eclipse and LQ
- On: Windows and MacOS
- Scalable UI for multitasking desktops
- Compact UI mode configured by the user
- Global Key state and Audio Presence indicators
- Audio routing to computers I/O
- · Easy download from Clear-Com Website

Virtual Desktop Client for Eclipse-HX

- (23) Keysets assignable to: Partylines, Groups, IFB, Point-to-Point, Directs & Controls
- Individual Keyset Listen Level Controls
- · Reply for Incoming Point-to-Points
- OS Notifications for incoming Calls

Virtual Desktop Client for LQ

- (24) Keysets assignable to Channels: Listen,
 Talk, Call, Control Events, Remote Mic Kill
- Individual Keyset Listen Level Controls
- Reply for incoming Call Signals
- OS Notifications for incoming Call Signals
- HelixNet HMS-4X & Encore Integration Options

Network Agnostic

- Supported by mission-built hardware
- Robust intercom over LAN, WAN & Internet
- IT friendly networking for Internet connectivity
- Encrypted Connection

Flexible Licensing Options

- Perpetual Eclipse licensing*
- Subscription Client licenses for continuous use
- Event Client Licenses for time limited use

Station-IC[™] Virtual Desktop Client for Eclipse[®] HX matrix and LQ[®] Series interfaces provides local and remote intercom access from PC and Mac computers.

Station-IC Virtual Desktop Client

Station-IC is a virtual desktop client that provides a scalable intercom user station on Windows and MacOS computers. Connecting to Eclipse HX IP-capable matrices or LQ Series IP Interfaces, Station-IC provides access to the system's resources which can include one-to-one, one-to-many, partyline, ISO and IFB communication in addition to call signals and logic controls. Individual keyset listening levels help users focus on specific channels while monitoring others. All of this functionality can be tailored to each user to create an efficient intercom user station on their computer.

Efficient Operation for Multi-tasking Desktop User

Station-IC's ergonomic, easy-to-use interface is designed for familiarity and consistency with other user stations, including Agent-IC® and V-Series Iris™ panels. Station-IC's large Talk and Listen buttons with individual level control and clear indication of current state allow operation with mouse and touchscreens. The window can be shaped and scaled to fit the screen and shows latched keys as well as input and output audio meters. Station-IC's always-on-top compact mode allows users to keep their favorite intercom keys visible in the smallest window, even while working on other applications. Favorite keys can be dynamically designated by the user, without any administrator involvement, ensuring that notifications of incoming calls and Eclipse reply / LQ call keys are always visible.

Integrates into any Intercom System

Station-IC fully integrates into Eclipse systems with available IP port capacity while LQ offers Channel based routing with a wide variety of LQ interfaces allowing Station-IC to connect to Clear-Com's Encore Partyline systems, TW Partyline, HelixNet HMS-4X systems, Two-Way radios, SIP telephone lines and to any other intercom system via four-wire.

*Perpetual Station-IC License is not available for LQ.



For Eclipse HX and LQ Series

*Perpetual Station-IC License is not available for LQ.

Robust Technological Foundation

Station-IC uses multiple mission specific audio codecs for audio alongside a proprietary control transport protocol designed to operate over LAN, WAN and Internet network connections of various quality. Clear-Com's legendary IP connectivity, requiring only a single network port on the Eclipse/LQ host end, drastically minimizes efforts required for network management and routing to public

internet connectivity. Station-IC connects to the host Eclipse HX matrix via the E-IPA/IVC-32 card or to any LQ series Interface device with available capacity.

Versatile License Options Tailored to Business Requirements

Station-IC includes variety of licensing options from Perpetual Licenses centrally hosted on Eclipse frames to time based Event and Subscription Client Licenses hosted on the users computers with ability to connect to either Eclipse or LQ systems capable of supporting Station-IC. All licensing methods can be used on the same system, giving the option of a core pool of perpetual licenses and event licenses for one-off short term requirements.

Perpetual Eclipse Licenses* allow multiple Station-IC licenses to be installed on an Eclipse frame for a major feature version of Station-IC (e.g. version 1.x). Eclipse hosted licenses are used by concurrently connected Station-IC users on a first-come first-serve basis.

Subscription Client Licenses are for ongoing requirements at the lowest daily cost of Station-IC for Eclipse and LQ and are installed on the users computer. Subscription licenses include all major feature updates, allow multiple extensions to be loaded for extended duration and transfer back to their license ticket while clearly displaying their expiration to users in the last month of subscription.

Event Client Licenses enable effortless licensing of Station-IC for Eclipse and LQ on the users computer for one week or one month duration from the first connection and are ideal for short-term surge capacity and rental applications.

Station-IC can be downloaded from the <u>Clear-Com website</u> and run in demo mode. Demo mode is provided with the ability to connect to a Clear-Com (or customer) provided system to test on a user's computer.

See also Clear-Com's Agent-IC mobile app which provides fully integrated intercom capabilities on Android and iOS devices.



For Eclipse HX and LQ Series

Technical Specifications

Software Application

Audio Settings

Assignment to any operating system audio input and output

Audio test capability for computer audio

Audio level meters

Far-end Silence Suppression

Echo Cancellation

Audio Controls & Indication

Talk/Listen indication and level meter Talk/Listen master mute

Listen level per key/keyset

Master level & balance by operating systems

Eclipse

Host Connection Profiles: 2

Keysets: 23

Assignable: Talk, Listen and Controls in EHX

Talk/Listen: Tap to latch (if allowed), push for momentary

Call signal: Initiation and indication

Tally Indication: Audio Presence, In-Use, Panel/Client Connected

Reply key: 1 - Shows incoming Point-to-Point talk for immediate response. Hidden by default, pops up and provides operating system notification Character Support: Arabic, Cyrillic, Hangeul, Hebrew, Hiragana, Kanji,

Katakana, Latin

LQ

Host Connection Profiles: 2

Keysets: 24

Assignable: per assigned channel to Talk, Listen, Call, Control Events and

Remote Mic Kill in LQ's CCM

Talk/Listen: Tap to latch (if allowed), push for momentary

Call signal: Initiation and Indication

Tally Indication: Audio Presence, Call, Control Events 1 & 2

Reply Call key: 1 - Shows incoming Call signal on a Channel for immediate response. Hidden by default, pops up and provides operating system

notification

Character Support: Latin

LQ in HelixNet HMS-4X Link Group

Station-IC LQ functionality is available when LQ is linked in a HelixNet HMS-4X Link Group.

System Minimum Requirements

Host Intercom System

Eclipse:

Perpetual Licenses*: 13.0+ with E-IPA (or IVC-32) Client Licenses: 12.1+** with E-IPA (or IVC-32)

LQ:

Perpetual Licenses: N/A* Client Licenses: 4.2+

Windows

Version: 8 (min), 10+

Computer and processor: 1.6GHz, 2 core (min)

Memory: 4.0GB RAM (min) Hard disk: 3.0GB (available) Display: 1024 x 768 (min)

MacOS

Version: 10.14 (min), 10.16+ (recommended)

Computer and processor: Intel Duo Core Processor (min), Apple M1

Memory: 4.0GB RAM (min) Hard disk: 1.5GB (available) Display: 1280 x 800 (min)

Audio

Eclipse:

Audio Encoding: G.722 - Fixed Wideband 7kHz within 64kbit/s

Frequency Response: 50Hz-7kHz

LQ:

Audio Encoding: Opus - Configurable 12kHz-20kHz within 16-128kbit/s

Frequency Response: 100Hz-12kHz, 100Hz-20kHz

LQ in HelixNet HMS-4X Link Group:

Audio Encoding: WavPack - Fixed Wideband 10kHz within 320kbit/s

Frequency Response: 20Hz-10kHz

Frequency Response is additionally filtered depending on use



For Eclipse HX and LQ Series

Technical Specifications

Latency

Eclipse

Windows

Station-IC to 4-wire: LAN 85ms, WAN 92ms, Internet 117ms 4-wire to Station-IC: LAN135ms, WAN 158ms, Internet 216ms Station-IC to Station-IC: LAN 220ms, WAN 245ms, Internet 333ms MacOS

Station-IC to 4-wire: LAN 109ms, WAN 115ms, Internet 145ms 4-wire to Station-IC: LAN 85ms, WAN 107ms, Internet 177ms Station-IC to Station-IC: LAN 185ms, WAN 205ms, Internet 305ms

LQ

Windows

Station-IC to 4-wire: High 60ms, Balanced 90ms, Low 110ms 4-wire to Station-IC: High 115ms, Balanced 115ms, Low 115ms Station-IC to Station-IC: High 197ms, Balanced 202ms, Low 246ms MacOS

Station-IC to 4-wire: High 66ms, Balanced 88ms, Low 109ms 4-wire to Station-IC: High 76ms, Balanced 76ms, Low 76ms Station-IC to Station-IC: High 94ms, Balanced 140ms, Low 152ms LQ is measured with LQ Local Mix Network Quality receiver set to High

LQ in HelixNet HMS-4X Link Group:

Windows

Station-IC to 4-wire: High 106ms, Balanced 106ms, Low 106ms 4-wire to Station-IC: High 119ms, Balanced 132ms, Low 172ms Station-IC to Station-IC: High 177ms, Balanced 187ms, Low 223ms MacOS

Station-IC to 4-wire: High 109ms, Balanced 109ms, Low 109ms 4-wire to Station-IC: High 77ms, Balanced 96ms, Low 137ms Station-IC to Station-IC: High 171ms, Balanced 177ms, Low 183ms

Latency is measured on local network with user selected network presets which adds latency with processing and Forward Error Correction for network resilience. Measurements are averages due to inline adaptive Echo Cancellation and Silence Suppression. Final latency performance is heavily dependent on configuration, computer, audio peripherals and network.

Network Specifications (Version 1.1+)

Network Protocols

Ethernet IPv4 - Unicast Audio and Control

Layer 3 - IP Routable

DNS - Domain Name Server

HTTP - License Transfer

HTTPS - Optional Usage Data / Diagnostic Service

IVP - Proprietary Intercom Audio and Control

G722 - Audio Codec for Eclipse IPA/IVC

Opus - Audio Codec for LQ

WavPack - Audio Codec for LQ in HelixNet HMS-4X Link Group

AES-128 - Audio and Control Encryption

Network Connectivity: Ethernet, Wi-Fi, 3G, 4G, LTE (as available on device)

Theory of Operation:

Eclipse Intercom System or LQ Interface (the server) provides a network connection and includes user credentials for Agent-IC (the clients) in its database. Server allows use of DNS and declaration of external IP address of an optional third-party network router which may be used to cross firewalls or NAT. Client receive connection information from the server via TCP, used to log onto the server with its credentials and establish encrypted audio and control stream(s) via UDP. Single UDP and TCP port is required in each direction. Eclipse systems route and mix all audio for the client centrally and stream a complete mix to the clients running on a Windows or MacOS computer. LQ systems intelligently route audio ethernet packages dependent on loudest talkers and listen levels to be mixed on the client.

Network Ports

Unicast:

Port 443 TCP – Optional Usage Data to Diagnostic Service Port 6001(configurable) TCP – System Management to/from Station-IC Port 6001(configurable) UDP –IVP Audio Streams to/from Station-IC Port 22350 TCP – Online Licensing Activation to/from CodeMeter

Multicast:

No multicast ports are used for Station-IC

Endpoint Resource Use:

Eclipse: 1 port on IPA/IVC card LQ: 1-3 See LQ Resource Estimator LQ in HelixNet HMS-4X Link Group: 1

Bandwidth:

Eclipse:

140 kbps from Eclipse to Station-IC140 kbps from Station-IC to Eclipse

With Far-end Silence Suppression & bidirectional Forward Error Correction

LQ:

Low:

40 kbps from LQ to Station-IC 160 (max) kbps from Station-IC to LQ

Balanced:

70 kbps from LQ to Station-IC 280 (max) kbps from Station-IC to LQ

High:

100 kbps from LQ to Station-IC

400 (max) kbps from Station-IC to LQ

LQ in HelixNet HMS-4X Link Group:

300 (max) kbps from each Station-IC to LQ 1200 (max) kbps from LQ to Station-IC

Network Jitter Tolerance

Eclipse:

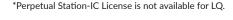
Station-IC Rx: LAN: <=160ms, WAN: <= 400ms, Internet: <= 600ms E-IPA Rx: (Configurable) LAN: <=12ms, WAN: <= 120ms, Internet: <= 200ms

Q:

Station-IC Rx: High: <=400ms, Balanced: <= 500ms, Low: <= 600ms **LQ Rx:** V. High, High & Balanced: <=60ms, Low: <= 100ms, V. Low: <= 200ms

LQ in HelixNet HMS-4X Link Group:

Station-IC Rx: High: <=400ms, Balanced: <= 500ms, Low: <= 600ms LQ Rx: <=128ms automatically adjusted to network performance





For Eclipse HX and LQ Series

Licensing

Perpetual Eclipse License*

Part numbers: STATION-IC-HX, STATION-IC8-HX

Validity: Permanent for major version of Station-IC connecting to Eclipse Duration: For major feature release (e.g. v1.x). License does not expire Delivery: EHX Passcode. Requires Frame Dongle ID to generate

License Host: Eclipse frame running EHX 13+ **Transferable:** No. Works only on specified Eclipse system

Recovery: Contact Clear-Com

Subscription Client Licenses for Eclipse or LQ

Part numbers: ST-IC-1Y, ST-IC-ADD1Y, ST-IC-8-1Y, ST-IC-8-ADD1Y Validity: Duration of a Committed Subscription. Starts with Activation Duration: 1 Year with Initiation, +1 Additional Year Extensions Multiple extension licenses can be Activated for extended duration Support: Duration of use or 7 years following purchase, whichever first Delivery: License Ticket, may include multiple licenses, can be re-loaded License Host: Local - CodeMeter License Manager software on user's computer

Virtual Machine Support: Not Available

Activation: Via WebDepot, Online (recommended) or Offline Transferable: Yes, Re-Hostable from computer to original ticket Recovery: Yes, using valid context files. Contact Clear-Com

Event Client Licenses for Eclipse or LQ

Part numbers: ST-IC- 1W, ST-IC-1M

Validity: Time-Limited. Starts upon first connection, to host system Duration: 1 Week, 1 Month. One license can be installed at a time Delivery: License Ticket, may include multiple licenses, can be re-loaded License Host: Local - CodeMeter License Manager software on user's computer

Virtual Machine Support: Not Available

Activation: Via WebDepot, Online (recommended) or Offline

Transferable: No

Recovery: Contact Clear-Com



For Eclipse HX and LQ Series



Connection Screen



Connection Screen - Profile Selection



Normal Mode - One Column



Large Screen Mode - Eclipse HX



Large Screen Mode - LQ



Compact Mode - Loaded with user's favorite keys

Order Code

PERPETUAL ECLIPSE HOSTED LICENSES:

Permanent for major version STATION-IC-HX: 1 user STATION -IC8-HX: 8 users

Permanent license for major version of Station-IC installed on Eclipse Eclipse Dongle ID required with order

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SUBSCRIPTION CLIENT HOSTED LICENSES:

For ongoing continuous use ST-IC-1Y: 1 user, 1 year ST-IC-ADD1Y: 1 user, +1 year ST-IC-8-1Y: 8 users, 1 year ST-IC-8-ADD1Y: 8 users, +1 year Installed on the Virtual Client Computer

EVENT CLIENT HOSTED LICENSES:

For time-limited use **ST-IC-1W:** 1 user, 1 week

ST-IC-1W: 1 user, 1 week ST-IC-1M: 1 user, 1 month

Installed on the Virtual Client Computer



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