



Station-IC

## Station-IC Virtual Desktop Client

For Eclipse HX, Gen-IC & LQ

### Key Features and Benefits

#### Station-IC Virtual Desktop Client

- For: Eclipse, Gen-IC 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 the 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 Gen-IC & 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
- LQ Interface Integration Options

#### Network Agnostic

- Supported by hardware or virtual intercom
- Robust intercom over LAN, WAN & internet
- IT friendly networking for internet connectivity
- Encrypted Connection

#### Flexible Licensing Options

- Perpetual Eclipse licensing<sup>1</sup>
- 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 provide local and global intercom access from Windows and Mac computers.

### Description

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, Gen-IC virtual intercom or LQ Series IP interfaces, Agent-IC provides access to the system's available resources including partyline channels with their call signals and logic controls on Gen-IC and LQ, as well as one-to-one, one-to-many, ISO and IFB communication on Eclipse matrix intercom systems. Individual keyset listening levels help users focus on specific channels while monitoring others. All this functionality can be tailored to each user to create an efficient intercom user station on their computer.

### 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 & Indicators

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

**Keys:** 23

Number of keys concurrently displayed depends on the window size set by user, screen size, resolution and the applications zoom lever. 4-23 keys can be displayed simultaneously with the option to scrolls for more keys.

**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 - Showings incoming Point-to-Point talk for immediate response. Hidden by default, ops up and provides operating system notification

**Character Support:** Arabic, Cyrillic, Hangeul, Hebrew, Hiragana, Kanji, Katakana, Latin

#### Gen-IC & LQ

**Host Connection Profiles:** 2

**Keys:** 24

Number of keys concurrently displayed depends on the window size set by user, screen size, resolution and the applications zoom lever. 4-24 keys can be displayed simultaneously with the option to scrolls for more keys.

**Assignable:** Per assigned channel to Talk, Listen, Call, Control Events and Remote Mic Kill in Gen-IC & LQ's CCM

**Talk/Listen:** Tap to latch, 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:** Arabic, Cyrillic, Hangeul, Hebrew, Hiragana, Kanji, Katakana, 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 with Latin character support.

<sup>1</sup>Perpetual License for a major version is only available for Eclipse v13 and higher.

# Station-IC Virtual Desktop Client

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## Technical Specifications (Continued)

### System Minimum Requirements

#### Host Intercom System

##### Eclipse:

**Perpetual Licenses<sup>1</sup>:** 13.0+ with E-IPA (or IVC-32)

**Client Licenses:** 12.1+<sup>2</sup> with E-IPA (or IVC-32)

##### LQ:

**Perpetual Licenses:** N/A<sup>1</sup>

**Client Licenses:** 4.2+

**Note:** Maintaining intercom systems on current or previous major version is highly recommended.

### Windows

**Version:** 10 (min), 11+

**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:** 11 (min), 12+ (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 64 bits/s

**Frequency Response:** 50Hz - 7kHz

#### Gen-IC & LQ:

**Audio Encoding:** Opus - configurable 12kHz - 20 kHz within 16-128bit/s

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

#### LQ in HelixNet HMS-4X Link Group:

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

**Frequency Response:** 20Hz-10kHz

Frequency Response is additionally filtered depending on system use

### Latency

#### Eclipse

##### Windows

**Station-IC to 4-wire:** LAN 85ms, WAN 92ms, Internet 117ms

**4-wire to Station-IC:** LAN 135ms, 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

#### Gen-IC & 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

**Note:** Package delay from Station-IC to Gen-IC must be added to the above latency figures.

#### 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 182ms

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.

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## Network Specifications | Version 1.4+

### 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 Gen-IC & 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 host device)

### Theory of Operation:

Eclipse Intercom System, Gen-IC Virtual Intercom or LQ Interface (the server) provides a network connection and includes user credentials for Agent-IC or Station-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 a MacOS computer. Gen-IC and LQ systems intelligently route audio ethernet packages dependent on loudest talker 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 Usage:

**Eclipse:** 1 port on IPA/IVC card  
**Gen-IC:** 1 Virtual Client User Capacity  
**LQ:** 1-3 See LQ Resource Estimator  
**LQ in HelixNet HMS-4X Link Group:** 1

### Bandwidth:

#### Eclipse:

140 kbps from Eclipse to Station-IC  
140 kbps from Station-IC to Eclipse  
With Far-end Silence Suppression & Bidirectional  
Forward Error Correction

#### Gen-IC & 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

#### Gen-IC & LQ:

Station-IC Rx: High: <=400ms, Balanced: <=500ms, Low: <=600ms  
Gen-IC & 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

# Station-IC Virtual Desktop Client

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## Technical Specifications (continued)

### Licensing

#### Perpetual Eclipse License<sup>1</sup>

**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 Gen-IC Licenses

Active Gen-IC Virtual Client capacity can be used by the latest version Station-IC. Separate Station-IC license is not required for use with Gen-IC. See Gen-IC product information for details.

#### 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

# Station-IC Virtual Desktop Client

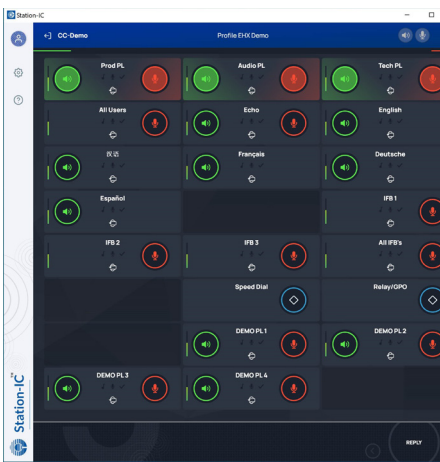
For Eclipse HX, Gen-IC & LQ



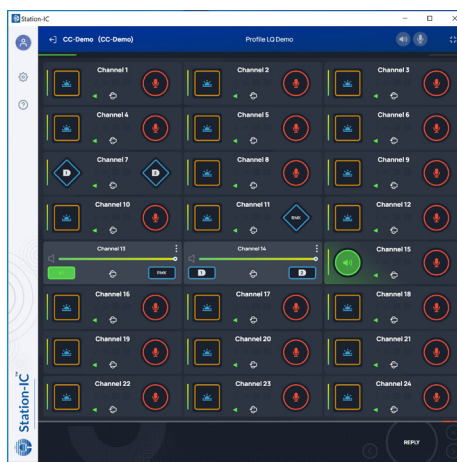
Connection Screen



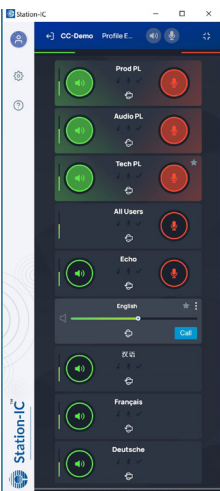
Connection Screen - Profile Selection



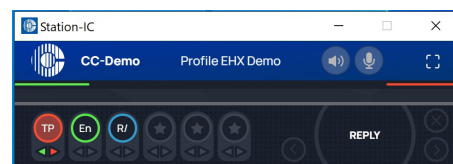
Large Screen Mode - Eclipse HX



Large Screen Mode - Gen-IC & LQ



Normal Mode - One Column



Compact Mode - Loaded with user's favorite keys

## Order Codes

### 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 hosted on Eclipse. Eclipse Dongle ID required with order

### Subscription Gen-IC Hosted Licenses:

Active Gen-IC Virtual Client capacity can be used by the latest version Station-IC. Separate Station-IC license is not required for use with Gen-IC. See Gen-IC product information for details.

### Subscription Client Hosted Licenses Eclipse & LQ

For ongoing continuous use

**ST-IC-1Y:** 1 user for 1 year

**ST-IC-ADD1Y:** 1 user for +1 year

**ST-IC-8-1Y:** 8 users for 1 year

**ST-IC-ADD1Y:** 8 years for +1 year

Installed on the Virtual Client Computer

### Event Client Hosted Licenses Eclipse & LQ

For time-limited use

**ST-IC-1W:** 1 user for 1 week

**ST-IC-1M:** 1 user for 1 month

Installed on the Virtual Client Computer

