

Station-IC 1.3 Virtual Desktop Client User Guide

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Document reference

Station-IC™ User Guide

Part Number: PUB-00051 Rev E

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Introduction to Station-IC

Station-IC[™] is a desktop application available for Microsoft[®] Windows[®] and Apple[®]macOS[®] computers which enables them to operate as a virtual intercom client for Eclipse[®] HX (EHX) matrix systems and LQ[®] Series interfaces.



For information about the Station-IC software version, click ², and then **About**. A screen appears with software version information.

About Station-IC

Version: 1.0.0-build.38 Copyright © 2021 Clear-Com. All rights reserved.

| ОК | |
|---|------------------------------------|
| To access the Station-IC User Guide, clic | k 🕐 , and then User Guide . |
| Sign up to receive alert emails when | |
| new software or firmware is available | |



1

2 Installing Station-IC

To install Station-IC on your PC or Mac, download it from the Clear-Com website and install.

Note: Be sure to enable Station-IC to pass through the system firewall.

Station-IC is in demo mode until you purchase and install a license, available from your Clear-Com partner.

See Station-IC Licenses on page 7

Before you can connect to the host intercom system with your virtual client, you must first setup connection details in the target software user interface. Station-IC connects to the host system using a profile. You will need:

User credentials:

- User ID
- Password

Network:

• IP address for the system you are connecting to.

3 Station-IC Licenses

Station-IC supports a number of licensing options that are described below.

3.1 Intercom System Hosted Licenses

Perpetual Eclipse Hosted Licenses Permanent for a major version of Station-IC

Eclipse v. 13 +

Order Code

- STATION-IC-HX: 1 user
- STATION-IC8-HX: 8 users
- Perpetual Eclipse Hosted Station-IC licenses require Eclipse HX version 13.0 or higher.

The following apply:

- Permanent licenses hosted on the Eclipse intercom system are fixed to the Eclipse frame. They cannot be transferred between Eclipse intercom systems.
- The frame's unique dongle ID (hardware ID) must be provided at the time of order.
- Licenses are served to concurrently connected users on a first-come-first-served basis. For example, if you have a license for 8 users, up to 8 users can be connected at any one time. The 8 user connections can be drawn by a larger pool of users.
- Permanent licenses are issued for the major versions of Station-IC (for example, v.1.x, v.2.x,)

3.2 Client Computer Hosted Licenses

Subscription Licenses - for ongoing operation

Order Code

- ST-IC-1Y Subscription Initiation: 1 user, 1 year
- ST-IC-ADD1Y Subscription Extension: 1 user, +1 year
- ST-IC-8-1Y Subscription Initiation: 8 users, 1 year
- ST-IC-8-ADD1Y Subscription Extension: 8 users, +1 year



Event Licenses - for time limited use

Order Code

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

The following apply:

- Subscription licenses can be transferred between computers
- Subscription licenses start depleting following initial activation. The remaining time does not stop while you transfer subscription licenses
- An extension license will start from the time the subscription license lapsed
- Multiple extensions can be installed at the same time. For example, for 3 years continuous use, install 1 Subscription Initiation and 2 Subscription Extensions. Subscription Initiation is installed before the extension
- One event license can be installed on a computer at any one time, additional licenses will overwrite the first. If you wish to extend your event license, wait until it has expired and then install a new one
- If you wish to use an event license on a computer that has previously hosted an initiation/subscription license, you must remove the subscription license before installing the event license. See Re-hosting a Client Hosted Subscription License on page 15
- Event licenses cannot be transferred between computers
- Event licenses activate and start depleting on first connection to the intercom system
- One event license can be installed on a computer at any one time, additional licenses will overwrite the first. If you wish to extend your event license, wait until it has expired and then install a new one
- If you wish to use an event license on a computer that has previously hosted a subscription license, you must remove the subscription license before installing the event license. See Re-hosting a Client Hosted Subscription License on page 15

3.3 Obtaining a License

To obtain licenses for Station-IC, contact your Clear-Com partner. Once you have purchased your license(s), Clear-Com will send :

- An Eclipse passcode unique to your matrix frame (for Eclipse hosted licenses)
- A license ticket containing licenses codes (for Client computer hosted licenses)



It is advisable to keep a record of license details for future use.

Example license details from Clear-Com :



Note: To find the unique dongle ID (hardware ID) of your matrix, in EHX navigate to: Matrix > Daignostics > Event Log > Request Info > Matrix Overview > Send. You will see the dongle ID (Hardware ID) output to the application window.

3.4 Installing an Intercom System Hosted License

To install a perpetual Eclipse hosted license for Station-IC, open the EHX configuration tool and select the matrix that the license will be applied to.

- 1. Navigate to Configuration > Preferences > System Access Codes
- 2. Enter the 16 digit passcode that has been sent by Clear-Com into the **Features Passcode** field
- 3. Apply Map to Matrix (with a reset)



User Guide | Station-IC

| File Tools View Help | EclipseHX |
|--------------------------|---|
| System | New Matrix\Event Log Preferences × Diagnostics Help = |
| | New Matrix\New Configuration\Preference 3. |
| New Matrix | Intelligent Linking ISO and IFB System Access Codes Wireless Beltpacks Key Operation Panel Operation |
| Retrieve Man from Matrix | DTMF Passcodes |
| Apply Map to Matrix | Passcode 1: |
| Hardware | Passcode 2: |
| 1. | Passcode 3: |
| Configuration | Passcode 4: |
| 🚟 Panels | Passcode 5: |
| Partylines | Passcode 6: |
| Fixed Groups | Passcode 7: |
| | Passcode 8: |
| | Menu Access Code (Panel, FreeSpeak II and Edge Beltpacks) |
| ++ IFBS | The code for access to PIN protected menus. |
| Controls | Code: 4. Passcode here |
| Routes | |
| Ge Speed Dials | Features Passcode |
| 😁 Beltpack Roles | License Dynam-EC, Agent-IC, Station-IC, Deltatore and HCI by entering the 16 digit passcode obtained functional distributor below: |
| 🖉 Key Groups | |
| Logic 2. | |
| X Preferences | |
| Disgnostics | CCM password (E-IPA, IPT, IRIS and EDGE) |
| | User password for CCM access. Leave empty to keep the default password. |
| | |
| | Password: admin 5. Apply Map |
| | to Matrix |
| | |
| | |

3.4.1 Validating the Installed License Key

In the EHX configuration tool, connect to the matrix and navigate to: Matrix > Diagnostics
 Event Log > Request Info > Matrix Overview > Send





2. The event log window will print details including the matrix **Hardware ID** (dongle ID) to the application window. On the same line you will see Station-IC licenses.

| Layout Diagnostics Help | T Sevent Log × |
|-------------------------|---|
| THE | ent Log |
| Live Mode | |
| Date | Severity Message |
| 2023/01/18 13:13:48:097 | 04/slot 7 E-IPA AES67 Alarms Requested. |
| 2023/01/18 13:13:52:092 | 05/slot 6 E-IPA AES67 Alarms Requested. |
| 2023/01/18 13:13:52:092 | 06/slot 7 E-IPA AES67 Alarms Requested. |
| 2023/01/18 13:13:56:080 | 07 slot 6 E-IFA AES67 Alarms Requested. |
| 2023/01/18 13:13:56:080 | 08 slot 7 E-IPA AES67 Alarms Requested. |
| 2023/01/18 13:14:00:081 | 09 slot 6 E-IPA AES67 Alarms Requested. |
| 2023/01/18 13:14:00:081 | 10/slot 7 E-IFA AES67 Alarms Requested. |
| 2023/01/18 13:15:42:266 | 0 ACK |
| 2023/01/18 13:15:42:976 | 001ADM Buffer Flushed |
| 2023/01/18 13:15:42:976 | 01Diagnostic 0 request |
| 2023/01/18 13:15:42:976 | |
| 2023/01/18 13:15:42:976 | 031B001 LF045 Z.A.ZZ.U (BOUI) [RAT 13 Z012] 041B030 3560 zoost code 20007300 |
| 2023/01/18 13:15:42:976 | |
| 2023/01/18 13:15:42:976 | |
| 2022/01/18 13:15:42:976 | Southerness and the set and |
| 2023/01/18 13:15:42:976 | OBHardware ID 2317; fask UL Dwnam-FC 0 Agent-IC 1 Station-IC 0 (v1) HCI 1:0 type 4 Lite Extd 0 Int 0:0 |
| 2023/01/10 10-076 | 091Rack FX29.106.2.0 [Oct. 26 2022 17:33:15] |
| 2023/01/18 13:15:42:977 | 1010perating with with a |
| 2023/01/18 13:15:42:977 | 11 Release 29,106.2.0 |
| 2023/01/18 13:15:42:977 | 12 Build hash - a5b2d231ea0b |
| 2023/01/18 13:15:42:977 | 13 NVRAM Data size - 0x79d084 |
| 2023/01/18 13:15:42:977 | 14/Current time is Wed Jan 18 13:15:42 2023 |
| 2023/01/18 13:15:42:977 | 15/Map 1 is loaded |
| 2023/01/18 13:15:42:977 | 16/Last download was 0 days 1 hours 58 minutes ago |
| 2023/01/18 13:15:42:977 | 17/Last reset was BLACK, 12 days 22 hours 10 minutes ago (peak SP ffbfe0f8) |
| 2023/01/18 13:15:42:977 | 18/Highest DMC usage in slot 3 since black reset = 0% |
| 2023/01/18 13:15:42:977 | 19[Current DPI Key usage 7189(1%) |
| 2023/01/18 13:15:42:977 | 20 Current Xpt Memory usage 1(0%) / 0(0%) |
| 2023/01/18 13:15:42:977 | 21[Current VOX Memory usage 5(0%) |
| 2023/01/18 13:15:42:977 | 221 |
| 2023/01/18 13:15:42:977 | 23 RACK REPORT:Median SYSTEM:1 #a5b2d231ea0b Wed Jan 18 13:15:42 2023 |
| 2023/01/18 13:15:42:977 | 241 |
| 2023/01/18 13:15:42:978 | 251slot P1 K/CFU BOOT CFU48 2.2.22.0 (BOOT) [Mar 15 2012] |
| 2023/01/18 13:15:42:978 | 261910 P1 M/CPU APP Rack FX29.106.2.0 [CCt 26 2022 17:33:15] |
| 2023/01/18 13:15:42:978 | 2/1410 P1 M/CR0 CPLD 053: 0.2.27.0, 01: 01 |
| 2023/01/18 13:15:42:978 | |
| 2023/01/18 13:15:42:978 | 29 Islot r2 S/CPU Arr 30 Islot 92 S/CPU CPU D |
| 2023/01/18 13:15:42:978 | |
| 2023/01/18 13-15-42-978 | STISLO I NYN AFF HIDD TLYDD TUD. TO HINY 25 2001 (1.2.14) DIR UNTEL |
| 2023/01/18 13:15:42:978 | SIGNO 2 NTN ALL DUD LIVES F 2 4 5 0 MODE TD Deducancu MMF |
| 2023/01/18 13:15:42:978 | 34 BLOT 3 E-IVC32 ADM(LAN:0):255.255.255.255.255.255.0BCP IVC(LAN:0):010.060.010.108 PRI(LAN:2:X):255.255.255.255.255.255.255.255.255.255 |
| 2023/01/18 13:15:42:978 | 35islot 3 E-IVC32 DECT SYNC:Slave to Internal INF0:0x0009 |
| 2023/01/18 13:15:42:979 | 36jelot 4 777 Expecting E-QUE |
| 2023/01/18 13:15:42:979 | 37 slot 5 E-MADI BOOT BOOT MADI 0.7.8.0 [May 5 2011 12:28:42] |
| 2023/01/18 13:15:42:979 | 381slot 5 E-MADI APP MADI 0.20.9.0 [Jan 26 2015 12:07:24] |
| 2023/01/18 13:15:42:979 | 391slot 5 E-MADI FPGA E-MADI 1.9.12.0 MK-I |
| 2023/01/18 13:15:42:979 | 40(slot 5 E-MADI DSP DSP MADI 1.4.11.0 [Sep 2011] |
| 2023/01/18 13:15:42:979 | 41/slot 6 E-IFA APP 6.174.63.0 - 3:E MODE:IP #FORTS:64 1st:160, LICENSES:64 Redundancy:NONE |
| | |

3.5 Installing a Client Computer Hosted License

Licenses are activated by you using a Cloud-based WebDepot which transfers selected licenses from the license ticket to the CodeMeter license manager (a software application) that runs on your computer.







3.5.1 Installing CodeMeter (Client Computer Hosted Licenses)

- 1. Download Station-IC from the Clear-Com website. Station-IC will open in demo mode.
- 2. Install the license manager (CodeMeter) by clicking the install icon.



3. Select **Automatic download** and click **Install**. Accept all default options of the CodeMeter License Manager installer.





4. The License Manager is automatically downloaded and installed.

The **Select file package** option allows the CodeMeter License Manager to be installed from an installer file package. This is intended for IT environments that may restrict applications from downloading. Contact Clear-Com for the installer file package.

Note: After CodeMeter is installed, the install icon is no longer visible.

Once installed, the CodeMeter License Manager runs in the background on your PC, holding your licenses. License status can be monitored from the CodeMeter License Manager application.



3.5.2 Installing a New License for Client Computer Hosted Licenses (Online)

Installing your licenses online is recommended.

1. Once CodeMeter is installed on your computer and you have license ticket ID from Clear-Com, go to **Settings** in Station-IC and launch **License with Ticket ID**. (Trial Code is for factory service use only).

| Image: Central Image: Cent | | |
|---|---|-------------|
| Auto Output Devices Input Devices Inp | 🚯 General 🗹 Profiles | Done |
| Output Devices Input Devices **default **default </td <td>Auon</td> <td></td> | Auon | |
| Input Devices | Output Devices | ~ |
| Echo Cancellation (m) Far End Silence Suppression (or) Notifications (on) License License with Ticket Id Advanced License Management Trial Code Others | Input Devices **default Test | ~ |
| Notifications • Notifications • (m) • License • License with Ticket Id • Advanced License Management Launch Trial Code Trial Code Others • | Echo Cancellation (on) Far End Silence Suppression (off) | - |
| Notifications (on) License License With Ticket Id Advanced License Management Trial Code Others | Notifications | |
| License License with Ticket Id Advanced License Management Trial Code Others | Notifications (on) | |
| License with Ticket Id Advanced License Management Trial Code Others | License | |
| Advanced License Management Launch Trial Code Others | License with Ticket Id | Launch |
| Trial Code Trial Code Others | Advanced License Management | Launch |
| Others | Trial Code Trial Code | |
| | Others | |
| | | and and the |



2. The online WebDepot opens. Copy and paste your Ticket ID, and click Next.

| Clear-Com® | | English | ₩ 💌 |
|--|---|-------------------------------|----------|
| Home Auto Update | Counter 1 West Damas | | |
| Welcome to CodeMeter License Central V Please enter your ticket and click "Next". | WebDepot. You can transfer your licenses to | your CmContainer using this W | ebDepot. |
| Ticket: | | Enter Tick | et ID |
| Next | | | |
| | | | |

3. You will see the purchased licenses available to you on the license ticket. These licenses are managed by the WebDepot. Press Activate Licenses. Select the license(s) you wish to install on your computer, then select Activate Selected Licenses Now. Following the license transfer, Station-IC will be licensed and no longer in demo mode.

Note:In some circumstances you may need to apply licenses to a computer that does not have
access to the internet. In this case follow these instructions: Installing Client Computer
Hosted Licenses (File-Based) on page 58.

3.5.3 Re-hosting a Client Hosted Subscription License

A client hosted subscription license can be removed from a computer and returned to the license ticket using the WebDepot where it will be available to install on a different computer using the steps outlined above. The license ticket can then be used for another computer. To rehost a license go to **Settings>Launch with Ticket ID** (step 3). You will need your Ticket ID to do this.



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| Home My Licenses Auto Update | | | | |
|---|------------------------|---------------|-------------|------------------------|
| My Licenses | | | | |
| Name | Purchased On | Activated On | CmContainer | Status |
| Station-IC Virtual Client: Subscription Initial, 1 user, 1 year | 2021-03-01 02:42:39 | | | Availabl [1] |
| Station-IC Virtual Client: Subscription Ext., 1 user, +1 year | 2021-03-01 02:42:39 | Re-host th | e license | Availabl (1) |
| Station-IC Virtual Client: Event License, 1 user, 1 month | 2021-07 02:42 | stalled on th | nis compute | er _{Availabl} |
| Station-IC Virtual Client: Event License, 1 user, 1 week | 207 -03-01 0 42:39 | 01:35:30 | 381461340 | Availabl (1) |

Note: Client hosted event licenses cannot be re-hosted and transferred between computers.



The Startup Screen

When you open Station-IC, the Startup screen appears:



Note: If updates for your virtual client are available, you will see the message center notification Click this to see messages. You can chose to update, or wait until a more convenient time. See **The Message Center on page 51** for more information.

To begin using Station-IC, select **Start**. You will connect to the intercom host specified by the selected profile. On first start up this will be the Clear-Com demo system or, in normal usage, the system last connected to.

If you wish to sign in to cloud services, do this before you press **Start**. See **Station-IC Cloud Features on page 19** for information.



4.1 Changing profiles

Click the profile selection drawer to see other profiles. Available profiles: 2 x Eclipse, 2 x LQ.

| | | | × | | \$ |
|---|--|--------|---|--|--------------|
| EHX | Profile EHX Demo CC-Demo hx-demo.clearcom.com | | | | C Start > |
| EHX E | Profile EHX Demo CC-Demo hx-demo.clearcom.com | Ľ | EHX | Profile EHX Demo CC-Demo hx-demo.clearcom.com | ☑ ▶ |
| - • • • • • • • • • • • • • • • • • • • | Profile LQ Demo CC-Demo agent-ic-lq.clearcom.com | ☑ ▶ | - • • • • • • • • • • • • • • • • • • • | Profile LQ Demo CC-Demo agent-ic-lq.clearcom.com | |
| | | | | | |

Note: For information about editing the selected profile, see **Configuring Station-IC on page 24**.



Station-IC Cloud Features

Station-IC can be extended with cloud enabled features. Some of these features require user authentication with your choice of authentication method. Being an authenticated cloud user brings a number of advantages as cloud authentication allows users to securely access information and services based in the cloud.

Once signed in to the cloud, any changes to your Station-IC profiles (user credentials, connection details and other settings) are automatically saved to the cloud and can be accessed from any device that has Station-IC or Agent-IC installed on it. For example, you can connect from your office, from an internet café, or from a mobile phone while you are on the move.

5.1 Authentication

5

You can sign in to Clear-Com cloud services using any of the following authentication services:

- Email
- Google
- Apple
- Microsoft
- Single Sign On (SSO). This option is only available once you have entered an SSO Provider Code in the virtual client **Settings** tab

5.2 Sign In to the Cloud

Click the Sign In icon on the starting screen ^{Construction}. Select your authentication method and follow instructions on the screen.

- **Note:** Sign in to the cloud before you press the **Start** button to connect to the server. If you wish to sign out of the cloud (you do not need to sign out) you must disconnect from the server first. If you sign out of the cloud, your intercom client will revert to the settings that are saved locally, and these may be different from the cloud profiles. This can affect the connection of your intercom client to the server.
- Note:If you disconnect your intercom session from the host server without signing out of the cloud,
you will automatically be signed in to the cloud next time you press Start.
- *Note:* On a private computer or device you can choose to allow your cloud authentication details to be cached for fast and easy sign on.



User Guide | Station-IC



Note:



Cloud indication icons

| lcon | Indication | | | |
|------|--|--|--|--|
| 8 | This is the sign in icon. This indicates that you are not currently signed into the cloud. | | | |
| | This is the sign in icon when you are signed into the cloud. If you have a photo uploaded it will show here (Google Cloud). This indicator will also show the authentication type: email, Apple, Google, Microsoft, or SSO, if you have that option enabled on your device. Click here if you wish to sign out of the cloud services | | | |
| ۵ | This indicates that your profiles are saved to and retrieved from the cloud Cloud based profile Stat D | | | |
| æ | This indicates that your profiles are saved and retrieved locally | | | |
| | This indicates that your current authentication method is Single Sign On (SSO) | | | |

5.4 Settings in the cloud

Not all settings are saved to the cloud. In the settings page, a setting that displays an italic font is not saved to the cloud.



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| M | | | | | × |
|-------------------------|---|--------|-------------------|--------|---|
| | (양 General / Profiles | | | 🛆 Done | l |
| The ai loc are | se settings re saved cally, they not saved | | | | l |
| to | the cloud | | | | |
| | cense with Ticket Id | | | Launch | |
| | Advanced License Management | | | Launch | |
| | Trial Code | | Trial Code | | |
| Ra | SSO Provider Code | | SSO Provider Code | | |
| | Others | | | | |
| TM | Data usage (on) | | | | |
| | Theme | System | | ~ | |
| | | | | | |
| | | | | | |

Some settings, for example, device audio settings are device specific, but these are negotiated in the cloud.

For more information on settings see **Configuring General Settings on page 25**.

5.5 Single Sign On (SSO)

With this authentication method, you can use your organization's unified credentials to access Station-IC connection profiles. SSO is a charged service provided by Clear-Com where your organization supplies Clear-Com with a connection to your credential management system. Once the service has been setup and activated, Clear-Com provides a code to enter into your Station-IC client's settings.



Please contact your Clear-Com Representative for further information.





Configuring Station-IC

You can configure Station-IC as follows:

- General Settings. This includes audio input and output devices such as microphones and loudspeakers. It also includes audio quality settings, notifications, links to licensing tools and data usage diagnostics.
- Profiles. A profile is a collection of settings including user credentials, network address and port number, that enable you to connect with the required intercom host system.
 Profile settings must match corresponding settings in the host intercom system. Profiles are available for EHX and LQ.



6.1 Configuring General Settings

_

To configure Station-IC general settings:

1. Click on the Settings icon, The Settings dialog screen appears.

| 🔅 General | Profiles | | | 🗅 Done |
|---------------------------|----------|------------------------|---------------|--------------|
| Audio | | | | |
| Output Devices | | | | |
| | HISE | ENSE (NVIDIA High Defi | nition Audio) | \checkmark |
| | Test | | | |
| Input Devices | | | | |
| | Micr | rophone (HD Webcam) | C270) | \checkmark |
| | Test | | | |
| Echo Cancellation (on) | | | | |
| Notifications | | | | |
| Notifications (on) | | | | |
| Appearance | | | | |
| Theme | | | Light | ~ |
| | | | | |
| Zoom Level | | | 140% | ~ |
| Client License | | | | |
| License with Ticket Id | | | | Launch |
| Advanced License Mana | gement | | | Launch |
| Trial Code | | | | |
| SSO Provider Code | | | | |
| Others | | | | |
| Data usage (on) | | | | |
| | | | | |



2. Ensure that the **General** tab is selected. Edit the settings as required, and then select **Done**.

Input/Output Devices

Click the dropdown arrow to select Input and Output audio devices from those available on your PC. Click **Test** to make sure that the audio devices are functioning.

Echo Cancellation

Echo Cancellation can reduce echo and thus improve audio quality. Far End Silence suppression, by stopping transmission when there is no audio on the line, can reduce your bandwidth consumption to the host intercom system.

Theme

Chose a theme that suits your preferences for the Station-IC display. The **Dark** theme may be better for a darkened environment.

Zoom Level

To enlarge the display of Station-IC keysets, set **Zoom Level**. Choose between 100 - 185%.

6.2 Configuring an EHX Profile

To configure an EHX profile:

1. Click on the Settings icon, The Settings dialog screen appears:



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| r . | | | | | |
|-----|---------------|----------|---------------------------|------|-------------------------|
| | လ်ို့ General | Profiles | Select profile here | Done | Details match |
| | Edit profile | | Profile EHX Demo (Active) | | those set in the target |
| | Name | | Profile EHX Demo | | intercom software |
| | User | | CC-Demo | | |
| | Password | | •••• | | _ // |
| | Server | | hx-demo.clearcom.com | | |
| | Port | | 6001 | | |
| | Profile type | | | EHX | |
| | Network Type | | EHX Managed | ~ | |
| | | | | | |
| | | | | | |
| L | | | | | |

- 2. Ensure that the **Profiles** tab is selected.
- 3. Edit the settings as required by the host intercom system, and then select **Done**.

6.2.1 Network Quality

| Network quality | Description/comments |
|--------------------|--|
| LAN | LANs (Local Area Networks) usually cover a small area, such as an office, single building or business. |
| WAN | WANs (Wide Area Networks) cover a broad area and may include any number of local area networks (LANs). |
| Internet | Global network that may be used to connect local networks in various locations around the world. |
| EHX managed | Station-IC follows the port settings set in the EHX configuration software. |



6.2.2 Example EHX configuration:

Configuration is required in the host intercom software. This section contains a brief overview of required configuration. In the EHX configuration software you will set:

IP port options (User ID and Password)



Note: The port type must be Virtual Client in the host EHX software.



E-IPA Card Properties (IP address)

| E-IPA-HX Card Properties | | | | | | |
|--------------------------|---------------------------------------|--|--|--|--|--|
| | Use IVC settings for Admin connection | | | | | |
| E-IPA-HX Port License: | E-IPA-48-HX Y | | | | | |
| View card license: | Open in browser | | | | | |
| Admin and | IVC AoIP Protocol Settings C(< > | | | | | |
| Rear Connection: | LAN 1 ~ | | | | | |
| IP Address: | 10.50.14.147 | | | | | |
| Subnet mask: | 255.255.252.0 | | | | | |
| TCP/UDP Port: | 6001 | | | | | |
| Default gateway: | 10.50.12.1 | | | | | |
| External IP Address: | 255.255.255 | | | | | |
| External TCP/UDP Port: | 6001 | | | | | |
| | | | | | | |
| | Close | | | | | |

For more information please refer to the latest Eclipse EHX Configuration Software User Guide



6.3 Configuring an LQ Profile

To Configure an LQ Profile:

- 1. Click on the Settings icon, The Settings dialog screen appears.
- 2. Ensure that the **Profiles** tab is selected:

| လ် General | Profiles | | | Done | |
|---------------------|-----------------------------|----------------|---------------------|------|--------------------------------|
| | | | | | |
| Edit profile | | | | | Name can be |
| Name | | Ν | /lichelle LQ | | Profiles Drawer |
| User | | Ν | lichelle | | |
| Password | | F | Password | | Details match those set in the |
| Server | | C | crdemo.dnsalias.net | | target intercom |
| Port | | 6 | 6002 | | software |
| Profile type | | | | LQ | Select role |
| Network Quality | | Balar | nced | ~ | |
| Select Preferred Ro | le | LQ M | anaged | V | |
| (i) Some changes re | quire to reconnect with the | server to take | effect. | | |

- 3. Edit the settings as required by the host intercom system.
- 4. Select a role, and then select **Done**.

Note:

The role can be fixed by the LQ CCM interface. In this case, you will not be able to select a role as it will be allocated automatically by the host intercom system.

Once you have accessed the system, a user selectable role is indicated by a star in the Station-IC keysets screen:



Note:

If the role for your intercom client has been configured as fixed in the LQ CCM, you cannot select a different role. If you try to select a different role, you will see an exclamation mark in a



triangle next to the role selection drop-down. This indicates that the role you have tried to select will not be applied to Station-IC.

| Network Quality | Description/comments |
|-----------------|----------------------|
| High | LAN only |
| Balanced | LAN or WAN |
| Low | Internet |

6.3.1 Example LQ CCM Configuration

Configuration is required in the host intercom software. This section gives a brief overview of configuration details.

User credentials are configured in the Accounts page of the LQ CCM:

| Soverview | C Device | 👬 Roles | ゔ Assignments | Accounts | | 🕒 Clea | ar-Com 0[| | |
|---------------------------|---|-------------|---------------|----------|--------------|---------------|-----------|--|--|
| Clients Clients SIP | The Agent-IC service is not licensed. Agent-IC clients will be forced to connect in Demo mode only. Virtual Client Users Virtual Client Users List | | | | | | | | |
| IVC | # | Label | User ID | Password | Default Role | LQ Assignment | Status | | |
| ‡ ‡‡ | - C1 | Michelle LQ | Michelle | | None 🗸 | Any 🗸 | 🖌 🗙 | | |
| | - C2 | | CC-Demo | Not Set | CC-Demo | LQ-R 4W#1 | • | | |
| | | | | | | | | | |

For more information on setting up the host system for Station-IC see:

- The Station-IC Knowledge Center (https://www.clearcom.com/station-ic-knowledgecenter)
- The LQ Series User Guide available from the Clear-Com website.



7

Station-IC operates as a virtual intercom client to two Clear-Com systems.

- Eclipse HX (EHX) matrix systems
- LQ Series interfaces

The key display and operation differs between the two systems.

7.1 Using Station-IC with EHX

7.1.1 The Keysets Screen

When you connect to the device specified in your selected profile, the **Keysets** screen appears. You can have up to 23 keysets.





7.1.2 Select Operation Mode

You can use Station-IC in two modes:

Normal Mode - you can resize the screen to any required size. The keysets will responsively adjust to fit the screen size.

Compact Mode - a small screen containing up to six keysets floats on top of the programs on the user's desktop. You can position the compact screen as required. This enables you to use Station-IC while you use your main screen for other applications. This screen appears on top of any other applications that are open.



To select Compact Mode, click the **C** icon.

To return to Normal mode, click the Licon.

7.1.3 Using Keysets

A keyset is a set of controls associated with an audio assignment that enables you to communicate with an endpoint user or a conference/partyline. For example, you can talk or listen to an intercom panel, or take part in a conference (partyline) group. Keysets can also be used to talk to interruptible foldbacks (IFBs), controls such as call signals, GPIO and logic functions, and direct interface ports.

Each keyset can have:

- A green Listen key
- A red Talk key
- A volume indicator
- A label that identifies the keyset

Note: The keyset display can be made larger by setting zoom level in **Settings > General**.



Front View of Keyset



Back View of Keyset



When a Talk or Listen key is active, it is highlighted as follows, solution and



- Note:If you select Talk or Listen with a brief mouse click the key will latch. This means that the Talk orListen function remains active until you click the button again to deselect it.
- *Note:* If you click and hold the Talk or Listen key, the key remains active until you release it. You will see Talk/Listen latch indicators at the top of the screen.



Eavesdropping

When another user has a key latched to listen to you, you will see an eavesdropping icon in the top bar. This shows you that someone is listening.



Adjusting Volume

To adjust the volume, click , and then use the green slider control to adjust the audio volume.

Muting microphones and loudspeakers

To mute all microphone and loudspeakers across all the keysets:

Click on 💽 o

respectively. When all the microphones or all the loudspeakers are

muted the icons display with line across them,


Call Signal

To send a call signal, click and then click call.

Tally Icons

| Tally Icon | Indication |
|---|-----------------------|
| Quaver | |
| StageMgr () () () () () () () () () () | Audio presence tally |
| Microphone | |
| lights () () () () () () () () () () () () () (| In-use tally |
| Checkmark | |
| | Panel connected tally |

Using the Reply Key

The **Reply** Key is located in the footer area of the **Keysets** screen. To view this area, click as shown below.

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The footer area expands to show the **Reply** key.

Note: If you receive a call, the footer area will automatically expand and the **Reply** key will flash and display the name of the caller. When the call ends, the footer area will collapse.

Use the arrows (<>) to navigate through stacked calls on the Reply key. X clears the top element in the call stack.



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Control Key

Keysets can be configured in the host intercom system to send a control (General Purpose Output) to an external system. This allows you to control an external appliance such as an on-air light, or transmission to two-way radios.



Alternative Key Configuration

Keysets do not have to be configured in the host intercom software to have two keys. They can have listen, talk, both or none.





Using Compact Mode

To make any keyset appear in Compact Mode, click the **Favorite** icon at the top-right hand side of the keyset. Click the icon again to remove it from Compact Mode.

Favorite keysets have a Star icon at the top-right hand side of the keyset.



When in compact mode, the name of the key is shortened to two characters.



Talk (red indication) and listen (green indication) latched keys are indicated by a triangle, as well as the talk-latch indicators (the red/green bars).



7.2 Using Station-IC with LQ

When you connect to the device specified in your selected profile, the Keysets screen appears. The maximum is 24 Keysets.

7.2.1 The Keysets Screen



7.2.2 Select Operation Mode

You can use Station-IC in two modes:

Normal Mode - you can resize the screen to any required size. The keysets will responsively adjust to fit the screen size.

Compact Mode - a small screen containing up to six keysets floats on top of the programs on the user's desktop. You can position the compact screen as required. This enables you to use Station-IC while you use your main screen for other applications. This screen appears on top of any other applications that are open.



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To return to Normal mode, click the **L** icon.

7.2.3 Using Keysets

A keyset is a set of controls associated with an audio assignment that enables you to communicate with a channel (conference line).

Each Keyset can be rotated to reveal more keys and controls. Click to flip the keyset. Each keyset has four keys that can be configured as:

- Call signal
- Event signal (1 or 2)
- Talk key (red)
- Listen key (green)
- Remote mic kill (RMK)

Each key also has:

- A volume indicator
- A label that identifies the keyset

The positioning of controls on Keysets is controlled by the LQ software and can be changed as required.

Note: The keyset display can be made larger by setting zoom level in **Settings > General**.



Front View of Keyset (default configuration)



Back View of Keyset



When the Listen key is not activated it has a black background:





Note: When *both* Talk and Listen keys are not activated, Call Signal, Events and RMK are not available.

Note: These graphics show the default configuration for Keysets. The system administrator may set up an alternative Keyset layout.

Using Talk and Listen Keys



When a Talk key is active, it is highlighted as follows,



Every time you connect to Station-IC for LQ, all the Listen keys are activated. If you don't want to hear a particular key, you must turn it off.

When you disconnect and reconnect to Station-IC, all Keysets will return to default configuration (all Listen keys ON).



In the default configuration, the Listen key is latched activated.

Note:If you select Talk or Listen with a brief mouse click the key will latch. This means that the Talk orListen function remains active until you click the button again to deselect it.



Adjusting Volume

To adjust the volume, click , and then use the green slider control to adjust the audio volume.

Muting microphones and loudspeakers

To mute all microphone and loudspeakers across all the keysets:

Click on 🔍 or 🔍

respectively. When all the microphones or all the loudspeakers are

muted the icons display with line across them, 🔌 🖄

Call Signal

To send a call signal, click the call signal button on the front of the Keyset:



Note: The call signal is not latchable. When you press it, you will see it light briefly. Once pressed, the call signal will remain active in the target channel for 10 seconds.



Tally Icons

| Tally Icon | Indication |
|--|-----------------------------|
| Quaver Ground CH5 (C) (C) (D) (D) (C) | Audio presence tally |
| Call signal Wireless 3 C C D D D C C | Call signal active |
| Event 1 Wireless 3 Image: Constraint of the second secon | Event 1 is currently active |
| Event 2 Wireless 3 C 2 D 2 C | Event 2 is currently active |

Using the Reply key

The **Reply** Key is located in the footer area of the **Keysets** screen. To view this area, click as shown below.



The footer area expands to show the **Reply** key.

If you receive a call, the footer area will automatically expand and the **Reply** key will flash and display the name of the caller. When the call ends, the footer area will collapse.

Use the arrows (<>) to navigate through stacked calls on the Reply key. X clears the top element in the call stack.



Using Compact Mode

To make any keyset appear in Compact Mode, click the **Favorite** icon at the top-right hand side of the keyset. Click the icon again to remove it from Compact Mode.



Note:

Favorite keysets have a Star icon at the top-right hand side of the keyset.



When in compact mode, the name of the key is shortened to two characters.



Talk (red indication) and listen (green indication) latched keys are indicated by a triangle, as well as the talk-latch indicators (the red/green bars).

7.2.4 Alternative Key Configuration

Station-IC keysets are configurable in the host intercom software (the LQ CCM).

Each keyset has 4 keys. Each key is assigned to a channel and different functions can be assigned to the channel:

- Talk
- Listen only
- Call
- Events (1 and 2)
- Remote mic kill (RMK)



Example configuration:

| 8 | ←] Test1 (AIC 3) | | | | Maison | | | | | 9 sp |
|----------------|------------------|------------|-----|----------|------------|---|----------|--|-----------------|------|
| \$ | | Channel 1 | • | | Channel 2 | | * | Channel 3 | | |
| <u>^</u> | | Channel 4 | • | | Channel 5 | | ⊲ | Channel 7 | * : • RMK | |
| | ↓ — B | Channel 8 | *: | | Channel 9 | | RMK | Channel 10 Channel 10 | | |
| | | Channel 11 | ВМК | * | Channel 12 | * | | | * | |
| | | | | | | | | | | |
| [™] O | | | | | | | | | | |
| Station- | | | | | | | | | | |
| | | | | | ~ | | | | | |

Note:

Call Signal and Event keys are not latchable. You will see them light briefly in Station-IC. Call signals and events will persist for 10 seconds in the target endpoint. If you want the signal or event to last longer than 10 seconds, you must press the key again.

When in compact mode, the keys are determined according to the first key found on the keyset in the following order: Talk, Listen, Call, Event 1, Event 2, RMK.

| /lichelle LQ | ◆) | 0 |
|--------------|-------------|-----------|
| | REPLY | \otimes |
| | Aichelle LQ | |

In the above example,

- C2 is a talk key
- C3 is a listen only key
- C4 is a call key
- DB and eg are Event and RMK keys respectively.

The Message Center

If there is information from the system, you will see the message center icon . If this is not visible, there are no messages and no actions are necessary. The message center will automatically provide you with information; updates, error conditions and warnings.



| Message | Relevant information |
|---|---|
| New version of Station-IC | See Software Update on page 52 |
| New version of Codemeter | See Software Update on page 52 |
| You are offline, some features may not be available and changes in the settings may be lost | Click the document icon to go to <i>Troubleshooting (Network)</i> |
| Missing or invalid or no more license file | Click the document icon to go to <i>Troubleshooting (License)</i> |
| License is about to expire in (days remaining) day (s) | Click the document icon to go to <i>Renewing a License</i> |
| License expired, please renew it | Click the document icon to go to <i>Renewing a License</i> |



Software Update

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The application has an integrated software update mechanism that will notify you when there is a new version of the Station-IC components:

- Station-IC (main application)
- CodeMeter (license manager)

The software update notification will appear in the message center will and includes a link to perform the installation or update. Click the message center to view messages, click the cog

icon , then Install. The main application needs to restart for the update to take effect.



10 Troubleshooting (Network)

Ways to resolve any problems that may arise with Station-IC.

10.1 Connecting to the Matrix

In Settings/Connections , check:

- Username
- Password (passwords are case sensitive)
- DNS Name or IP Address of the host intercom system
- Host intercom system network TCP/UDP port (default 6001)

10.2 Network Issues

If your network connection to the host intercom system fails:

- · Check if you can ping the host intercom system
- If you can ping the host intercom system but cannot connect, the problem may be that the port that Station-IC uses on your local network is blocked. Check with your network administrator.
- If the problem is not with the network, it may be that your network connection is not providing enough bandwidth to support Station-IC.

10.3 Configuration Issues

Are you connecting to your own host intercom system? If you are connecting to your own Eclipse matrix or LQ unit, and the issue is not with your local firewall (the port is closed) then check the following details with your system administrator:

- Hardware: is an IVC-32-HX or an E-IPA-HX card installed and configured on the matrix?
- Software: is the matrix running on Eclipse EHX 12.1 or above? Is the LQ unit (all the units if you are connecting to a Link-Group) running LQ 4.2 or above?
- Eclipse configuration: is the Station-IC client correctly configured in this system?
- Check that the firewalls are configured to allow Station-IC to access. This includes the firewalls set on your PC and those set on the host intercom system.



• LQ only: Role allocation; is another Role user still logged in to your Station-IC client? LQ (not EHX) is Role based. A Role may have many users, but only one user can log in to the Station-IC client at one time.

10.4 Poor Audio

This is caused by unreliable IP infrastructure. Query your IP provider and make sure that your network resources are suitably configured.

10.4.1 Audio Delay

This fault is due to the inherent delay between the matrix and Station-IC. But certain devices may make this worse if they do not support low latency. Check your device capabilities under Settings.

10.4.2 Unwanted Echo

Some devices do not support acoustic echo cancellation (AEC) when in speaker mode. If one party has a device that does not support AEC, make sure that he uses a headset. Ask the other party to check his device capabilities under Settings.

10.5 Installation Issues

Windows installation error:



If you see this popup, follow the instructions and click 'Open Setup Log' for more information.

Clear-Com strongly recommends re-installing Station-IC if you are prompted with a message of failed installation.



10.6 Collect Support Files

You can download support files to send to your Clear-Com representative for diagnostic purposes. Collect a support file by clicking the Help icon 2 and clicking **Collect Support Files**.



By default, the support file is saved to your desktop. To save to a different location, click on the file destination message.



Note: The support files may include the computer's user name. The support files do NOT include the user's password to access the computer.

10.7 Any Other Issues

Please consult the Clear-Com solution finder: Clear-Com Solution Finder.



11 Troubleshooting (License)

Station-IC needs a valid license to operate. Licenses are hosted either on an Eclipse Intercom System or on the client. If hosted on the client, they are managed by the CodeMeter application on your computer, in conjunction with the Clear-Com licensing WebDepot.

A situation may arise where you have CodeMeter installed on your computer but there is no license available for you to use. Possible causes for this are:

- No Station-IC licenses have been activated/installed
- License count is zero. For a Network/Floating license a limited number of licenses are available
- The license has expired
- The license has been cancelled

The Licensing chapter in the Station-IC User Guide covers: types of license available, obtaining a license, installing a license, renewing a license and re-hosting a license on a different computer. If you need more assistance, contact your Clear-Com dealer.

Installing Client Computer Hosted Licenses (File-Based)

If your computer does not have internet access, it is possible to transfer the licenses using a license file exchange. You will obtain a container for the license files from CodeMeter, installed on the computer that needs to be licensed, and load it with a license from the license ticket using the WebDepot.



Obtain a .WibuCmRaC file from the computer to be licensed (CodeMeter). Go to WebDepot and activate the license using **File-based license transfer** option.

2. Install the license on the required computer

Take the file update file (.WibuCmRaC) back to the computer to be licensed. Install the license (CodeMeter).

3. Obtain a receipt and return to the WebDepot

Obtain a receipt from CodeMeter (.WibuCmRac) and return this to the WebDepot.

12.1 Installing File-Based Licenses, Step-by-Step Instructions

Installing CodeMeter on your computer is covered in section **3.5.1 Installing CodeMeter** in this manual.

1. Open the CodeMeter Control Center and verify that it includes the **Clearcom-Universal** license Container. If CodeMeter contains the Clearcom-Universal container, go straight to step 2 of these instructions.

If CodeMeter does not include the Clearcom Universal license container, please use the following steps to obtain one:



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Note:

a. Go to the online WebDopot at https://license.clearcom.com/webdepot/index.php

| | English | * |
|---|------------------------|---|
| Home Auto Update | | |
| Welcome to CodeMeter License Central WebDepot | | |
| Welcome to CodeMeter License Central WebDepot. You can transfer your licenses to your CmContainer Please enter your ticket and click "Next". | r using this WebDepot. | |
| Ticket: | | |
| Next | | |
| | | |
| Legal Notice CodeMeter License Central WebDepot V19.07.210.500.ws | | |
| | | |

- b. Enter your licence ticket ID and press Next.
- c. You will see a list of licenses to select from and information on how to get a CmContainer for your offline computer. Press **How it works +**.

| Home My Licenses Auto Update | | | English | |
|--|--|---|---|-----------------|
| Available Licenses | | | | |
| Upload Request Do | ownload Update | | Upload Receipt | |
| To activate your licenses via file transfer - First step "Upl If you have activated licenses from this ticket already, you can to use another CmContainer, you need a license request file 1. Select an already used CmContainer or create a license re want to transfer the licenses to. This file can for example b 2. Select the licenses you want to activate. 3. Select the created license request file. 4. Click "Continue". | load Request": n transfer additional license of this new CmContainer. equest file with Firm Code (he created with CodeMeter (| s into the same (5001399 for the t Control Center, H | CmContainer(s). If CmContainer who low it works D | you yunt you |
| Name | Purchased On | Activated On | CmContainer | Status |
| Station-IC Virtual Client: Event License, 1 user, 1 week | 2022-08-21 23:59:55 | - | | Available |

d. You will see steps on how to get a license container (CnContainer template). Press **Download template now**.



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| Clear-Com® | | | English | ## = |
|--|---|--|--|-----------------------------|
| Home My Licenses Auto Update | | | | |
| Available Licenses | | | | |
| Upload Request | Download Update | | Upload Receipt | t |
| If you have activated licenses from this ticket already, you or to use another CmContainer, you need a license request file 1. Select an already used CmContainer or create a license want to transfer the licenses to. This file can for example a. Start CodeMeter Control Center on the computer whe b. Select this CmContainer. If no CmContainer is presen template now. Import this template by dragging the dot. Click "License Update". d. Follow the instructions of the "CmFAS Assistant". Choe e. Choose a filename for the license request file. f. Click "Commit" to save the license request file. g. Transfer the licenses you want to activate. 3. Select the created license request file. 4. Click "Continue". | an transfer additional lice e of this new CmContaine request file with Firm Co be created with CodeMe re the desired CmContain t on that computer, you c winloaded file to CodeMe lose the option "Create lice to this computer. | nses into the same ir. de 6001399 for the ter Control Center, I ner is. an download a temp ter Control Center. | CmContainer(s). I CmContainer whe fow it works | f you want tre you ad |
| Name | Purchased On | Activated On | CmContainer | Status |

- e. Drag the downloaded file to the CodeMeter Control Center. Proceed to step 2.
- 2. From CodeMeter Control Center, click License Update.



3. Click Next.



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🗧 😋 CmFAS Assistant

Welcome to the CmFAS Assistant!

The CodeMeter Field Activation Service (CmFAS) assistant helps you adding, changing and deleting licenses from the license management system CodeMeter.

With the CmFAS assistant you can create license request files, which you can send to the vendor of the software by email. You can also import the received license update files with the CmFAS assistant into the license management and create a receipt of the import for the vendor.





4. Select Create license request, and then click Next.









6. Click Finish.

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CmFAS Assistant

The license request file has been successfully created.

The license request file has been successfully created. You can send it now to the vendor of the software by email.



7. Enter your Ticket in **WebDepot**, and then click **Activate Licenses**.

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|---|------------------------|------------------------|--|---------------------|
| AN HME COMPANY | | | | |
| Home My Licenses Auto Update | | | | |
| My Licenses | | | | |
| Name | Purchased On | Activated On | CmContainer | Status |
| Station-IC Virtual Client: Event License, 1 user, 1 week | 2021-02-23 05:56:09 | | | Available: 1 (1) |
| Station-IC Virtual Client: Event License, 1 user, 1 month | 2021-02-23 05:56:09 | | | Available: 1 (1) |
| Station-IC Virtual Client: Subscription Initial, 1 user, 1 year | 2021-02-23 05:56:09 | 2021-02-24 01:50:31 | 130- 1055051858 | Available: 0 (1) |
| Station-IC Virtual Client: Subscription Ext., 1 user, +1 year | 2021-02-23 05:56:09 | 2021-02-25 02-24.49 | 130- 1055051858 | Available: 0 (1) |
| | | | | |
| Activate Decessor | | | | |
| | | | | |
| Legal Notice CodeMeter License Central WebDepot v1 | 19.07.210.500.le | | | |
| | | | | |
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8. Click File-based license.

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|-----------------------|---|-----------------------------|----------------------|----------------|---------------|
| | Home My Licenses Auto Update | | | | |
| | Available Licenses | | | | |
| | To activate your licenses: 1. Select the licenses you want to activate. 2. Select the locally connected CmContainer to which you want 3. Click "Activate Selected Licenses New". | nt to transfer the licenses | | | |
| | Name | Purchased On | Activated On | CmContainer | Status |
| | Station-IC Virtual Client: Event License, 1 user, 1 week | 2021-02-23 05:56:09 | | | Available |
| | Station-IC Virtual Client: Event License, 1 user, 1 month | 2021-02-23 05:56:09 | | | Available |
| | Select CmContainer 130-1055051858 (Clearcom-Universal) v 🚺 Comment | | | | |
| | Activate Selected Licenses Now | | | File-bersed in | onse transfer |
| | Show other licenses in this ticket My Licenses | | | | |
| | Legal Notice CodeMeter License Central WebDepot v19 07 210 | 1.500.le | | | |
| 130-1055WibuCm/latu A | | | | | |

9. Select the license you want to activate, and then click **Choose File**.

| Home My Licenses Auto Update | | l | English | 88 ¥ |
|---|--|--|---|------------------------|
| Available Licenses Upload Request Down | cad Update | | Upload Receipt | |
| To activate your licenses via file transfer - First step "Typica If you have activated licenses from this toket already, you can be to use another CmContainer, you need a license request like of 1. Select an already used CmContainer or create a license request want to transfer the licenses to. This file can for example be of 2. Select the licenses you want to activate. 3. Select the created license request life. 4. Click "Continue". | d Request": ansfer additional license his new CmContainer, est file with Firm Code (reated with CodeMeter (| s into the same C 5001399 for the C Control Center. He | mContainer(s). If y mContainer where will works | you want e you |
| Name | Purchased On | Activated On | CmContainer | Status |
| | | | | Available |
| Station-IC Virtual Client: Event License, 1 user, 1 week | 2021-02-23 05:56:09 | | | |
| Station-IC Virtual Client: Event License, 1 user, 1 week Station-IC Virtual Client: Event License, 1 user, 1 month | 2021-02-23 05:56:09 2021-02-23 05:56:09 | | | Available |
| Station-IC Virtual Client: Event License, 1 user, 1 week Station-IC Virtual Client: Event License, 1 user, 1 month Station-IC Virtual Client: Subscription Ext., 1 user, +1 yeer | 2021-02-23 05:56:09 2021-02-23 05:56:09 2021-02-23 05:56:09 | | | Available Available |



10. Select the .WibuCmRaC file that you saved earlier.



11. Click Start Activation Now.

| Upload Request Downlo | ad Update | | Upload Receipt | | |
|---|---------------------|--------------|----------------|---------------|--|
| To activate your licenses via file transfer - First step "Upload Request": If you have activated licenses from this licket already, you can transfer additional licenses into the same CmContainer(s). If you want to use another CmContainer, you need a license nequest file with Firm Code 6601399 for the CmContainer where you want to transfer the licenses is In this file can for example be created with CodeMeter Control Center. How it works 2. Select the iconses you want to activate. 3. Select the consets Journal Line file. 4. Click "Contrue". | | | | | |
| Name 1 | Purchased On | Activated On | CmContainer | Status | |
| Station-IC Virtual Client: Event License, 1 user, 1 week | 2021-02-23 05:56:09 | - | | Available | |
| Station-IC Virtual Client: Event License, 1 user, 1 month | 2021-02-23 05:56:09 | | | Available | |
| Station-IC Virtual Client: Subscription Ext., 1 user, +1 year | 2021-02-23 05:56:09 | | | Available | |
| Select an already used CmContainer No CmContainer selected v or Biok a license remuted Bio ("Willow"mBio") of another CmContain | | | | | |
| Choose File 130-1055051858.WbuCmRaC | Her . | | | | |
| Comment | | | | | |
| Start Activation Now | | | Direct lice | inse transfer | |
| Chose other licenses in this licket | | | | | |



12. Click Download License Update File Now.

| | English 🗰 💌 | |
|--|--|--|
| Home Hy Licenses Auto Update | | |
| Download License Update File Upload Request / Download Update | Upload Receipt | |
| To transfer your licenses via file - Second step "Download Update": 1. Click "Download License Update File Now" and save the file on your computer. 2. Import this license update file to the CimContainer with Serial 130-1056051858. This file can for example, the Content Not I works II 3. After information of the Incomment to Exercise update file to the CimContainer, click "Next" to com Download License Update File Now I works II My Licenses | rple be imported with firm the license transfer. Direct license transfer | |
| Legal Notice CodeMider License Central WebDepot v19.07.210.500 le | | |
| | | |
| | | |

13. Click Next.

| | Home My Licenses Auto Update | English | 9 X |
|--------------------|--|--|------------|
| | Download License Update File Uplead Request / Download Update To transfer your licenses via file - Second step "Download Update" . Clost "Download License Update File Now" and save the file on your compute: . Clost "Download Closterse Update File Now" and save the file on your compute: . Clost "Download Closterse Update File Now" and save the file on your compute: . After you have successfully transferred the locense update file to the CmContainer, clock "Next" to com- Download License Update File Now "Work" . Update License Update File Now" and save the file to the CmContainer, clock "Next" to com- Download License Update File Now "Now". . Update License Update File Now". . Update License Lice | Upload Receipt mple be imported with nfirm the license transfer Direct licens | e transfer |
| | Legal Notice CoddMoter License Central WebDepot v19 07 210 500 ie | | |
| 130-1055WibuCmfaiU | | | Show all X |



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14. From CodeMeter Control Center, select **Import license update**, and then click **Next**.

| | ? | × |
|---|-------------|----------|
| ← ⓒ CmFAS Assistant | | |
| Please select the desired action | | |
| ○ Create license request | | |
| Choose this option if you want to create a license request file in order to send it to t | he vendor | r of the |
| Import license update | | |
| Choose this option, if you received a license update file from the software vendor a import this file. | nd want to | D |
| ○ Create receipt | | |
| Choose this option if you want to confirm the successful import of a license update f software vendor. | ile for the | |
| | | |
| Next > | | lp |

15. Select the .*WibuCmRaU* file that you downloaded in step 9, and then click **Commit**.

| | | ? | Х |
|---|--|------------|---|
| ← ⓒ CmFAS A | lssistant | | |
| Please selec | t the file name | | |
| C:\Users "- | 10 ownloads \130-1055051858. WibuCmRaU | | |
| Select a file unde import the new li | er which the license update file is stored on your computer. Then click on 'c censes. | :ommit' to | 0 |
| | | | |
| | | | |
| | | | |
| | | | |
| | Commit | Help | 2 |



16. Click OK.



17. Click on the highlighted link.



| 4 |
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| l |



18. Save this new . *WibuCmRaC* file, and then click **Commit**.

| | | ~ |
|--|-------|--------------|
| - | | |
| Please select the file name | | |
| C:\Users\Uownloads\130-1055051858.WibuCmRaC | | |
| Select a file name for storing the receipt me. Then dick on 'commit' to create the file. You of this file to the vendor by email. | an tł | nen send |
| | | |
| | | |
| | | |
| | | |
| Commit | | <u>H</u> elp |
| Click Einich | | |
| | | |
| | ? | × |
| CmFAS Assistant | | |
| The license receipt file has been successfully created. | | |
| The license receipt file has been successfully created. You can send it now to the vendor of the software by email. | | |
| | | |
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19.

20. From the WebDepot Control Center, click **Choose File** and pick the last *.WibuCmRaC* file. Click **Upload Receipt Now**.

| Clear-Com | English 68 8 | 1 |
|---|--|------------|
| Home Wy Licenses Auto Update | | |
| Confirm License Transfer Upload Request / Download Update | Upload Receipt | |
| To transfer your licenses via file - Third step "Upload Receipt": 1. Create a license receipt file from the CmContainer with Serial 130-1055051858 and Firm Code 600 example be created with CodeMeter Control Center. How it works 2. Select the created license receipt file. 3. Click "Upload Receipt Now". If you haven' imported the license update file yet, you can download it again. Click "Back" to get to the | 1399. This file can for download page. | |
| Pick license receipt file (".WibuCmRaC) | | |
| Liphand Roccept New 3 | Direct license tran | for |
| My Licenses | | |
| Legal Notice CodeMeter License Central WebDepct v19 07 210 500 le | | |
| | | |
| 100-1055wibuceAw | | Show all X |

21. A final confirmation screen appears.

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|---------------------|---|---------|------|------------|
| | Home My Licenses Auto Update | | | |
| | License Transfer Successfully Completed | | | |
| | The license transfer has been completed successfully. | | | |
| | OK | | | |
| | Legal Notice CodeMeter License Central WebDepot v19 07 210 500 le | | | |
| | | | | |
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| | | | | |
| | | | | |
| | | | | |
| 130-1055WibuCmAwU A | | | | Show all X |



13 Technical Specifications

13.1 Software Applications

| Software Applications | | | |
|---|---|--|--|
| 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 | | |
| | Host Connection Profiles: 2 | | |
| | Keysets: 24 | | |
| LQ | 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 [®] Link-Group | Station-IC LQ functionality is available when LQ is linked in a HelixNet Link Group. | | |



13.2 Audio Settings

Audio Settings

- Assignment to any operating system input and output
- Audio test capability for computer audio
- Audio level meters
- Far-end Silence Suppression
- Echo Cancellation

13.3 Audio Controls and Indications

Audio Controls and Indications

- Talk/Listen indication and level meter
- Talk/Listen master mute
- Listen level per key/keyset
- Master level and balance by operating systems


13.4 Minimum System Requirements

| Minimum System Requirements | |
|-----------------------------|---|
| Host Intercom System | Eclipse 12.1 or above with E-IPA (or IVC-32) |
| | • LQ 4.2 or above |
| Windows | Version 8 (minimum), Version 10 or above (recommended) Computer and Processor: 1.6 GHz, 2 core (min) Memory: 4.0 GB RAM (min) Hard Disk: 3.0 GB (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: 4.0 GB RAM (min) Hard disk: 1.5 GB (available) Display: 1280 x 800 (min) |

Note: Please contact your Clear-Com representative for use with older Eclipse versions

13.5 Audio

| Audio | |
|--------------------|---|
| Eclipse | |
| Audio Encoding | G.722 – Wideband - 7 kHz audio-coding within 64 kbit/s |
| Frequency Response | 50Hz-7kHz |
| LQ | |
| Audio Encoding | Opus – Configurable 12kHz-20kHz within 16- 128kbit/s |
| Frequency Response | 100Hz-12kHz, 100Hz-20kHz |



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| Audio | |
|---------------------------|---|
| LQ in HelixNet Link-Group | |
| Audio Encoding | WavPack – Fixed Wideband 10kHz within 320kbit/s |
| Frequency Response | 20Hz-10kHz |

Note: Frequency Response is additionally filtered depending on use

13.6 Latency

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

| Eclipse/Station-IC Latency | |
|----------------------------|--|
| Windows | Station-IC to 4-wire: LAN 85 ms, WAN 92 ms, Internet 117 ms 4-wire to Station-IC: LAN 135 ms, WAN 158 ms, Internet 216 ms Station-IC to Station-IC: LAN 220 ms, WAN 245 ms, Internet 333 ms |
| MacOS | Station-IC to 4-wire: LAN 109 ms, WAN 115 ms, Internet 145 ms 4-wire to Station-IC: LAN 85 ms, WAN 107 ms, Internet 177 ms |
| | Station-IC to Station-IC: LAN 185 ms, WAN 205 ms, Internet 305 ms |

| LQ Series to Station-IC Latency | | |
|---|---|--|
| Opus Latency (With LQ Local mix at default High Quality) | | |
| | Station-IC to 4-wire: High 60ms, Balanced 90ms, Low 110ms | |
| Windows | 4-wire to Station-IC: High 115ms, Balance d 115ms, Low 115ms | |
| | Station-IC to Station-IC: High 197ms, Balanced 202ms, Low 246ms | |
| | Station-IC to 4-wire: High 67ms, Balanced 88ms, Low 109ms | |
| MacOS | 4-wire to Station-IC: High 76ms, Balanced 76ms, Low 76ms | |
| | Station-IC to Station-IC: High 94ms, Balanced 140ms, Low 152ms | |



| LQ Series to Station-IC Latency | | |
|--|---|--|
| WavPack Latency - (when LQ Series are linked to HelixNet Stations) | | |
| | Station-IC to LQ 4-wire: High 106ms, Balanced 106ms, Low 106ms | |
| Windows | 4-wire to Station-IC: High 115ms, Balanced 115ms, Low 115ms | |
| | Station-IC to Station-IC: High 177ms, Balanced 187ms, Low 223ms | |
| | Station-IC to 4-wire: High 109ms, Balanced 109ms, Low 109ms | |
| MacOS | 4-wire to Station-IC: High 76ms, Balanced 76ms, Low 76ms | |
| | Station-IC to Station-IC: High 171ms, Balanced 183ms, Low 176ms | |

13.7 Bandwidth

| Bandwidth, Opus and WavPack (LQ only). For EHX see Network Ports in this chapter. | | |
|---|---|--|
| | 140 kbps from Eclipse to Station-IC | |
| Eclipse | 140 kbps from Station-IC to Eclipse | |
| | With Far-end Silence Suppression & bidirectional Forward Error Correction | |
| | Low quality: | |
| | • 40 kbps from LQ to Station-IC | |
| | 160 (max) kbps from Station-IC to LQ | |
| | Balanced quality: | |
| LQ | • 70 kbps from LQ to Station-IC | |
| | • 280 (max) kbps from Station-IC to LQ | |
| | High quality | |
| | 100 kbps from LQ to Station-IC | |
| | • 400 (max) kbps from Station-IC to LQ | |
| LQ in HelixNet Link- | • 300 kbps (max), Station-IC to LQ | |
| Group | 1200 kbps (max), LQ to Station-IC | |

13.8Network Specifications (Version 1.0)

| Network Specifications | |
|------------------------|---|
| 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 RTP – Audio Transport G722 – Audio Codec Opus - Audio Codec for LQ WavPac - Audio Codec for LQ in HelixNet Link-Group AES-128 – Audio and Control Encryption |
| Network Connectivity | Ethernet, Wi-Fi, 3G, 4G, LTE (as available on device) |

13.9 Network Ports

| 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 – Audio Streams to/from Station-IC Port 8080 TCP – Online Licensing Activation to/from CodeMeter |
| QoS Tags | DSCP=41, Assured Forwarding (AF) |

13.10 Network Jitter Tolerance

| Software Type | Jitter Tolerance |
|---------------------------|---|
| Eclipse | Station-IC Rx: LAN: <=160ms, WAN: <= 400ms, Internet: <= 600ms E-IPA Rx: Configurable LAN: <=12ms, WAN: <= 120ms, Internet: <= 200ms |
| LQ | Station-IC Rx: High : <=400ms, Balanced: <= 500ms, Low : <= 600ms . LQ Rx: (Configurable) High : <=60ms, Balanced : <= 60ms, Low : <= 100ms, Very Low : <= 200ms |
| LQ in HelixNet Link-Group | Station-IC Rx: High: <=400ms, Balanced: <= 500ms, Low: <= 600ms LQ Rx: <=128ms automatically adjusted to network performance |

13.11 Endpoint Resource Use

| Software Type | Resource Use |
|---------------------------|-------------------------------|
| Eclipse | 1 port on IPA/IVC card |
| LQ | 1-3 See LQ Resource Estimator |
| LQ in HelixNet Link-Group | 1 |

13.12 Theory of Operation

Eclipse or LQ Host Intercom System (the server) provides a network connection and includes user credentials for 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. Client logs onto the server with its credentials and establishes an encrypted RTP audio stream(s) via UDP and control via TCP. 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.



13.13 Privacy

Station-IC optionally collects usage data to troubleshoot and continuously improve the application. The data collected is limited to Station-IC and the use of connected equipment and is transferred to Clear-Com managed diagnostics cloud servers. The data collected does not include any content or personal data. The data collected is stored and managed according to the Clear-Com Privacy Policy. Data-Usage and related communication to Clear-Com diagnostic cloud services can be disabled by the customer.