

EclipseHX Quick Start Guide

This quick start guide describes how to set up a basic **Eclipse HX™ digital matrix system**. It explains how to:

- Connect Eclipse HX interface cards, user panels and other devices to the matrix frame.
- Check that your connected hardware devices are functioning correctly (without having to configure the matrix frame).
- Set up the EHX configuration software on the PC.
- Set up and configure the matrix frame.

Tip: For detailed help with setting up and configuring your Eclipse HX system, see the full **Eclipse HX documentation set** on the Eclipse HX DVD(s).

1.1 Connecting your Eclipse HX devices

To connect your Eclipse HX devices to the matrix frame:

1. Ensure that the Eclipse HX matrix is unpowered.
2. Check that all the required interface cards (MVX-A16, E-QUE, E-MADI64, IVC-32, LMC-64 and E-FIB front and rear cards) and interface modules (in the case of the Eclipse HX-Median and Eclipse HX-Delta) have been inserted into the matrix frame.
3. Connect the rear cards to the user panels, then the interfaces, leaving unused ports until last.
4. Connect the matrix to your network (see next section).
5. Power up the Eclipse HX matrix.

1.2 Connecting the EHX PC

The Eclipse HX matrix frame is set up to automatically obtain an IP address from a DHCP server on your network. If no DHCP server can be located, the matrix frame defaults to the IP address of 169.254.0.100. This enables the PC that will host your EHX configuration software to automatically acquire an IP address to communicate with the matrix frame through a directly connected Ethernet cable.

Note:

*if you are using an older PC you may require an Ethernet crossover cable. If the Ethernet port status and activity LEDs are **not** lit when the PC and frame are powered and the cable is connected, the cable is probably of the incorrect type.*

You can connect the matrix frame by either connecting the frame to a network with a DHCP server or by connecting directly to the frame's LAN port (1) with a single cable.

1.3 Checking connected hardware devices

The matrix frame is delivered with an embedded, factory-set configuration that allows you to verify the correct functioning of the MVX cards, associated analog connected panels and CPU cards.

Connect any panels into the MVX-A16 card ports and power the panel(s) (if you have not done so already). To help you check that the panels are functioning, a **Talk** key is provided to itself on each panel. A **Talk** and **Listen** key are also provided to a partyline (conference / loop) label, PL001.

1.4 Installing the EHX configuration software

The EHX configuration software is located on the Eclipse HX software DVD. Separate EHX client and server installs are provided. Click the relevant install file to run, and follow the EHX Setup wizard instructions.

When the installation is complete, run the EHX software.

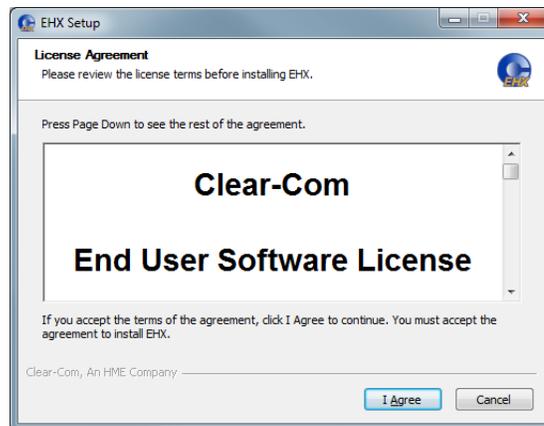


Figure 1: EHX Setup, Software License screen

Note:

Only select the server installation if you want to run EHX in Client-Server mode, where multiple clients are connected to a shared central configuration server.

1.5 Discovering the matrix frame in EHX

To discover the matrix frame (and associated cards and ports) in EHX:

1. Connect your EHX PC to the same LAN / WAN (see above) that your matrix frame is also connected to.
2. Run EHX. You will be prompted to create a new EHX project. A project holds the configurations that can be applied to one or more matrix frames.
3. If your matrix frame is not yet powered, **power it now**. Your matrix frame will now be seen on the Layout screen, in the discovery pane.

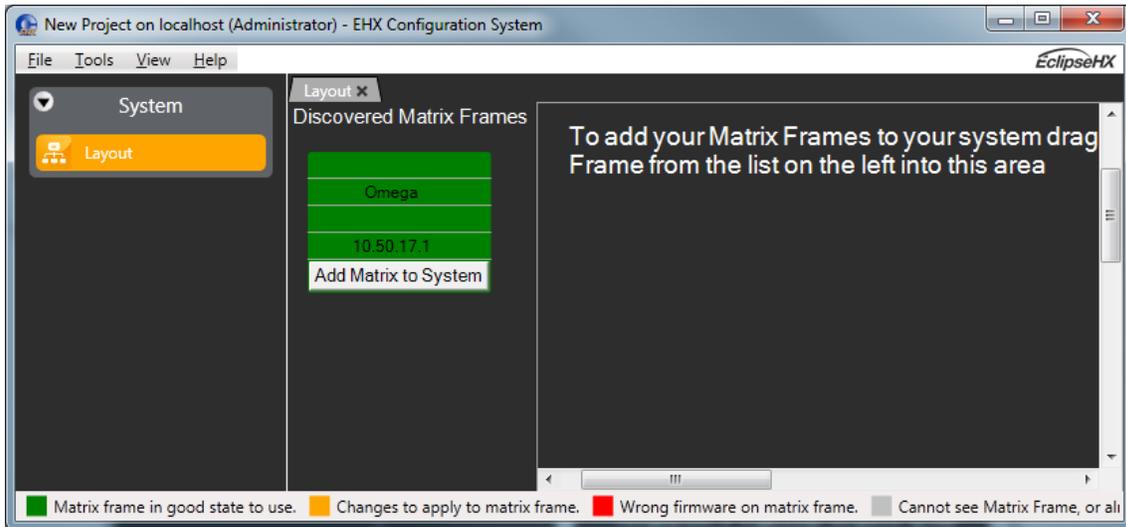


Figure 2: EHX > Discovered Matrix Frames

4. Drag the frame to the canvas.
5. Bring this frame into your project (**save** the project).
6. Discover the cards in your frame.
7. Discover the analog panels and interfaces attached to your MVX cards.

You now have a base configuration where you can name your ports, assign keys to user panels, and configure partylines, Fixed Groups and other intercom functions.

1.6 Configuring the Matrix Frame

1.6.1 IP address

The Eclipse HX matrix frame is set to automatically acquire an IP address from the network (see above). However, Clear-Com strongly recommends that you set a static IP address before commencing normal operations to prevent:

- Delays in restarting the matrix while a new IP address is required.
- Possible undesirable shifts in the IP address during operation.

To set a static IP address on the matrix frame:

1. In EHX, right click the matrix frame on the **Layout** screen.
2. Select **Change IP Address**. The current IP settings are displayed.
3. Make any desired adjustments to the IP settings (you may need to contact your IT department for assistance).
4. Apply the changes to the matrix frame (click **Apply Changes**).

1.6.2 Applying a configuration

The matrix frame is initially shown in the **amber** state in EHX. This color coding indicates that a live configuration of the project for this matrix frame must be applied to the matrix frame.

To apply a configuration to all the matrix frames in the system, click **Apply Changes to System**. To apply a configuration to a particular matrix frame, click **Apply Changes**.

In the **Apply to System** dialog, select a reset type and then click **Apply to System**.

Tip: You can modify the name and/or description of the configuration on the matrix frame, using **Configuration Manager**.

When the configuration has downloaded, the matrix frame resets. When the matrix reset is complete it reappears on the network and is displayed as **green** on the Layout screen (your matrix is now configured from this project).

1.6.3 Configuring functionality

The sidebar EHX menus list the configuration options that are available to you, according to the interface cards and user panels associated with the discovered matrix frame. EHX highlights mandatory configuration steps that have yet to be performed (based on your hardware) in **amber**. To find out what the step is, hover the mouse over the amber colored menu option. A tooltip is displayed.



Figure 3: EHX tooltip, missing mandatory step

If you have multiple matrix frames in your system a summary total of these indications is given on any unselected matrix frame in the sidebar.

Tip: Any changes that you make can be applied to the particular matrix frame by clicking **Apply Changes** in the EHX sidebar.

1.7 Document Reference

Eclipse HX Quick Start Guide. Product Number: 399G047 Revision: A

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