

This licensing guide covers:

- Capacity licenses for the E-IPA card (ports)
- Feature licenses
 - SMPTE 2110/AES67 channel licenses (AoIP). An AoIP license is necessary if you wish to connect to any third-party AES67 or SMPTE 2110 compatible device.
 - SIP (E-IPA) channel licenses.

E-IPA port capacity

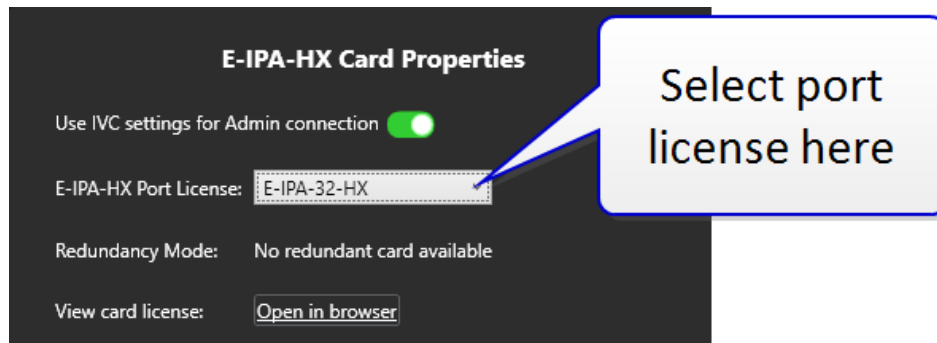
The E-IPA-HX card is a high density audio over IP card that is available in the 4 different capacities shown below:

Factory fitted licenses	Customer self-fit licenses
E-IPA-16-HX: 16 ports E-IPA-32-HX: 32 ports E-IPA-48-HX: 48 ports E-IPA-64-HX: 64 ports	E-IPA-UG-16-HX: upgrade your card by 16 ports

Cards are bought ready licensed, but you can upgrade your card in increments of 16 ports. You can apply more than one 16 port license to your card, to a maximum of 64 ports in total.

Note: The port capacity of your E-IPA card is always visible on front lens of the card.

When upgrading port capacity on the E-IPA card, you must also upgrade the card capacity in card properties. Go to **Matrix > Hardware > Cards and Ports** [select E-IPA card, right click or double click] > **Card Properties**:



Feature license: SMPTE 2110/AES67 (AoIP) channels

As with port capacity, the card can be brought ready licensed or you can install your own (max 64).

SMPTE 2110/AES67 channels are available in the following bundles:

Factory fitted licenses	Customer self-fit licenses	Number of channels
E-IPA-AoIP-8-HX	E-IPA-AoIP-ADD-8-HX	8
E-IPA-AoIP-16-HX	E-IPA-AoIP-ADD-16-HX	16
E-IPA-AoIP-32-HX	E-IPA-AoIP-ADD-32-HX	32
E-IPA-AoIP-48-HX	E-IPA-AoIP-ADD-48-HX	48
E-IPA-AoIP-64-HX	E-IPA-AoIP-ADD-64-HX	64

Feature License: SIP (LQ SIP, E-IPA SIP)

Maximum SIP ports per card: 64

Customer self-fit licenses	Number of channels
E-IPA-SIP-Add-8-HX	8

Feature License: Redundant Network Connections

This is not the same as N+1 card redundancy or 2022-7 red/blue network redundancy. See *Redundant Network Connections* in the *EHX User Guide*.

Maximum 1 per E-IPA card.

License
E-IPA-RDT-NET-HX

Note: You can find out what licenses have been applied from the EHX Software: **Diagnostics>Event Log>Matrix Overview**.

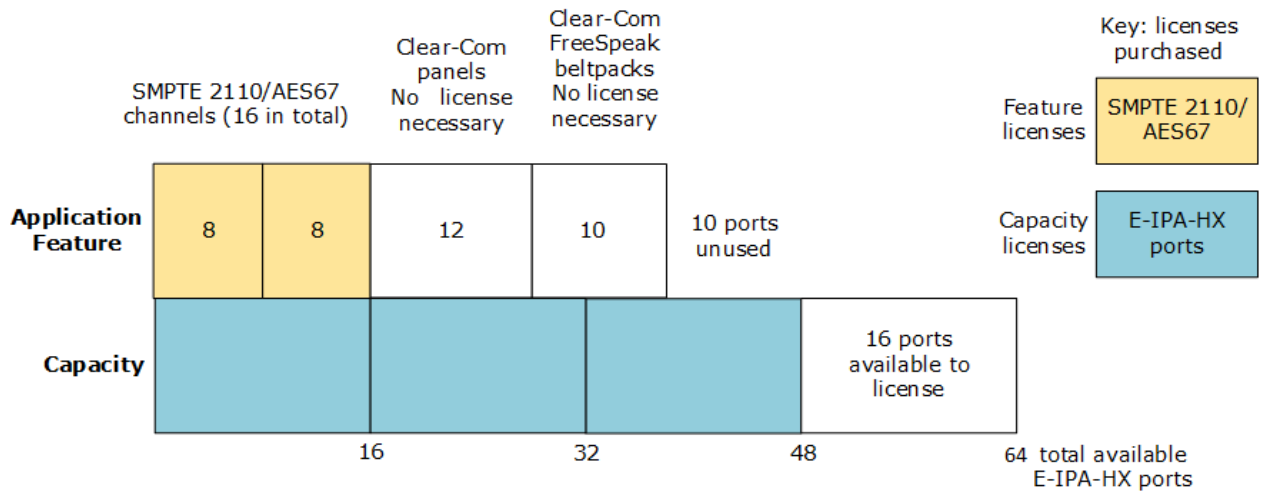
Example of Clear-Com E-IPA-HX port/feature license allocation

For example, if you have the following requirements:

- 16 SMPTE 2110/AES67 ports (send 4 streams of 4 channels and receive 4 streams of 4 channels)
- 12 AoIP connected Iris panels
- 10 FreeSpeak Edge beltpacks

You can implement this example with a single card licensed with 48 ports capacity, with 16 SMPTE 2110/AES67 feature licenses.

The following graphic shows how the card utilizes ports.



Note that the graphic shows:

- 16 unlicensed ports. These are available for future capacity expansion.
- 10 ports licensed but unused. These can be used to extend the number of panels, beltpacks or SMPTE channels. To extend the number of SMPTE channels, you must purchase additional feature licenses.

How to buy a Clear-Com license

If you wish to purchase licenses to upgrade your E-IPA-HX port capacity, or an E-IPA feature license, contact your Clear-Com dealer.

When you have purchased your licenses, Clear-Com will email or send you a **Ticket ID**.

Dear Customer,

Thank you for purchasing the Clear-Com License. Please find your license details below.

License Type: E-IPA-UG-16-HX

SO Number: 1234567

E-IPA-UG-16-HX: 2

Ticket ID: XXXX-XXXX-XXXX-XXXX-XXXX

Please keep your Ticket ID as it is used to activate the licensing process.

The example shown above gives you 32 additional E-IPA-HX ports (2 X 16).

How to activate (install) your Clear-Com licenses

Note: You should upgrade your card to the latest software before installing licenses.

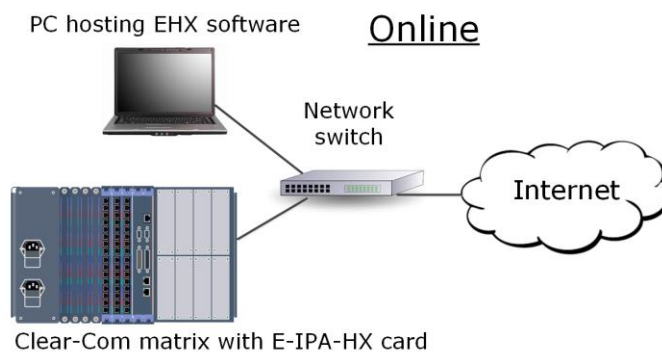
Once you have received your licenses you must activate them. Licenses can be activated:

- **Online** (via the internet) or
- **Offline**

Online activation of your licenses is generally quicker and easier than offline activation. However, in some cases online activation is not possible.

Online activation is only possible if:

- The **Admin** port of your E-IPA card has access to the internet

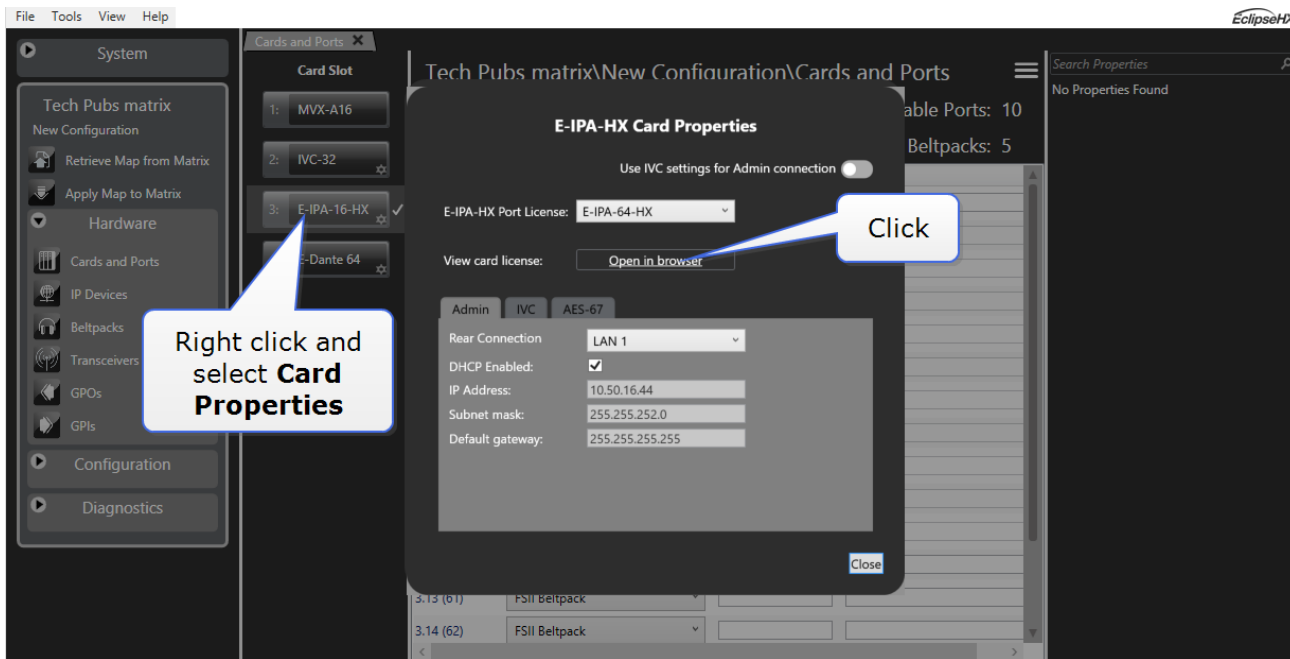


Note: The Admin port on the E-IPA-HX card must be reachable from the PC hosting the EHX Software when licenses are activated.

Online license activation

The method used for activating/installing is the same for all types of licenses.

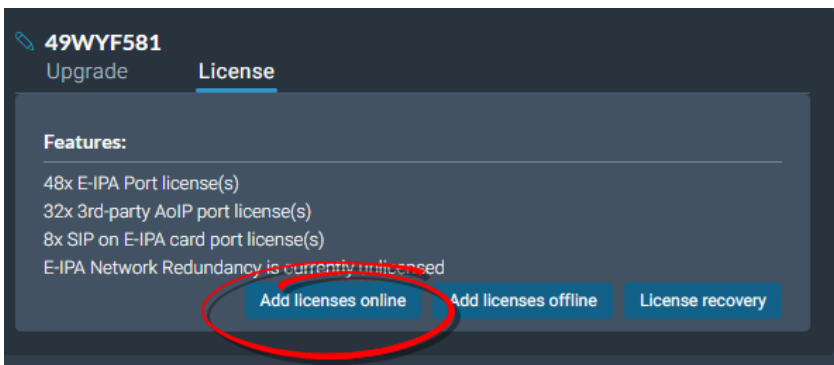
- 1) Open the EHX Software and navigate to **Hardware>Cards and Ports**.



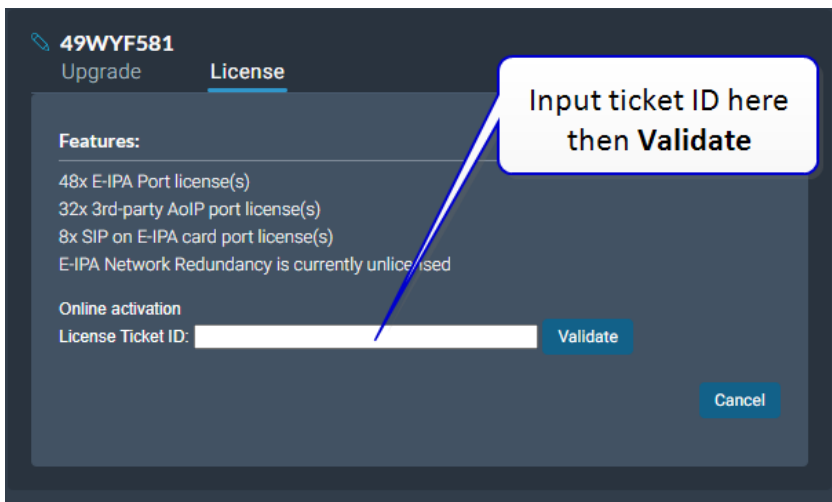
This opens the Core Configuration Manager (CCM) of the E-IPA card.

Note: The username for the CCM is: **admin**
 The default password for the CCM is based on the mDNS name of the device. The mDNS name can be found on a printed label attached to the card. For example, if the mDNS name is CC-E-IPA-49WYF581, the default password is: **49WYF581**.
 The default password can be changed in the EHX Software. Navigate to **EHX>Matrix>Configuration>Preferences>System Access Codes** to change the password. You can reset the password to the default by pressing and holding the Reset button on the card for 30 seconds.

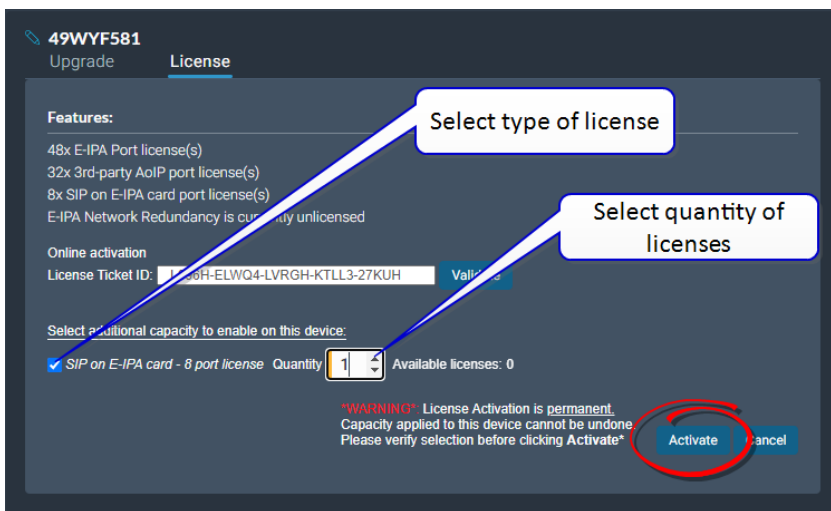
- 2) In the CCM, navigate to **Hardware>License**. Select **Add licenses online**.



- 3) In the **Ticket** field, enter the **Ticket ID**, and then **Validate**.



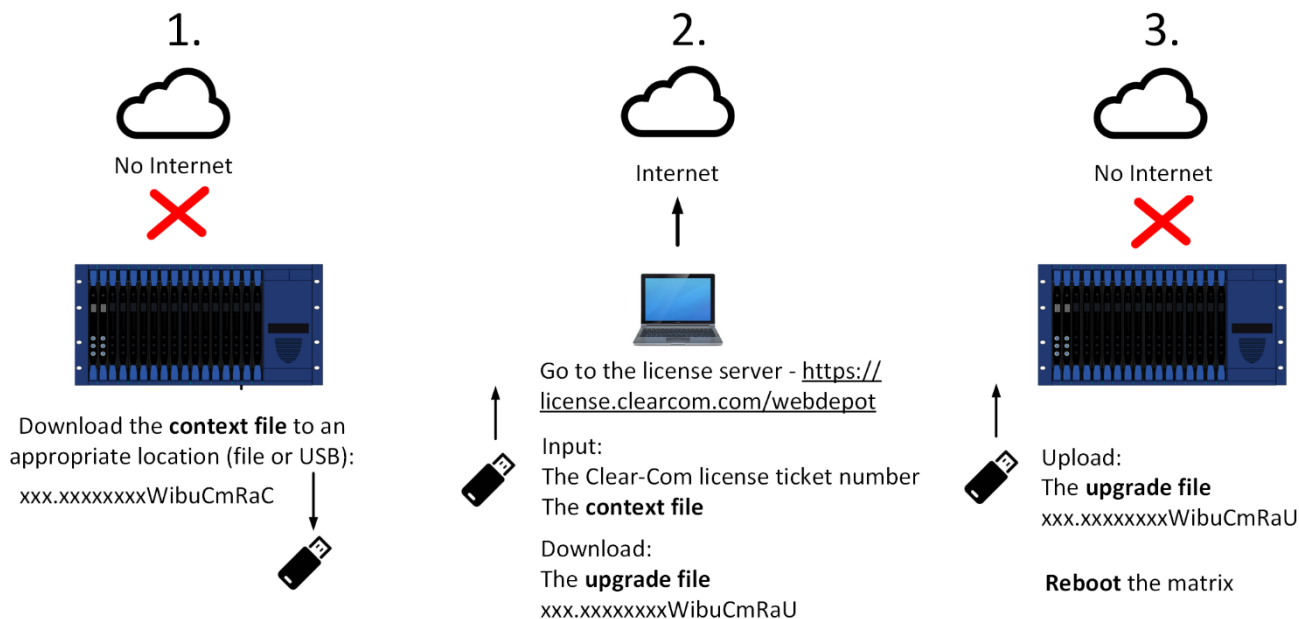
- 4) Select the checkbox and the quantity of licenses to be added, then click **Activate**.



- 5) Reboot the card to finalize the license activation process.

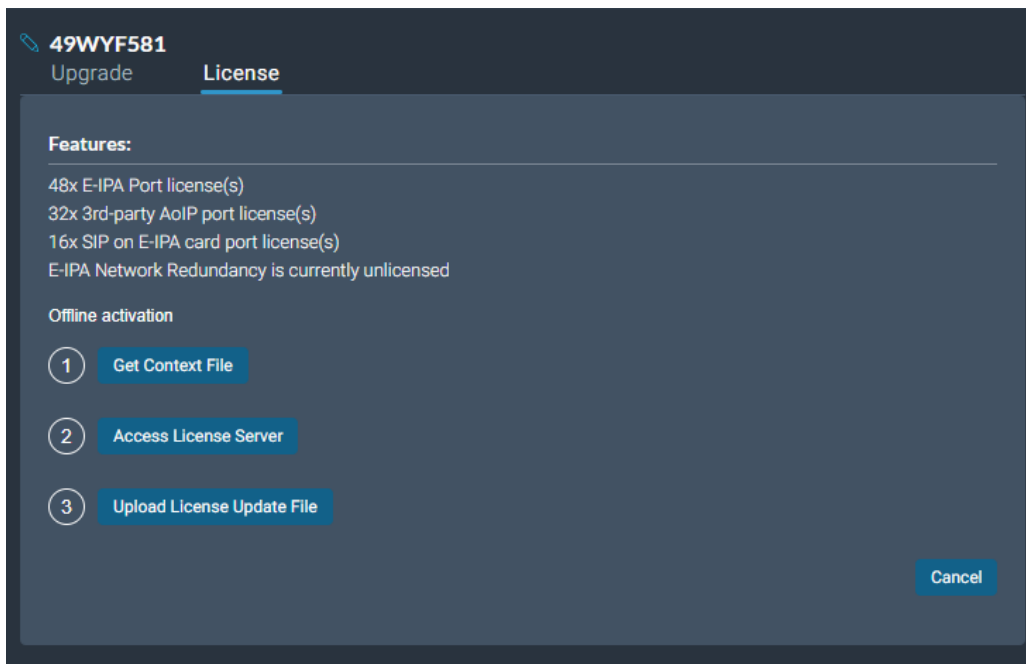
Offline license activation

To activate licenses offline you must first download a **context file** from the E-IPA card. This is given to the online license server, with the Clear-Com ticket ID to generate the **upgrade file** which can then be uploaded to the E-IPA card to activate the license.

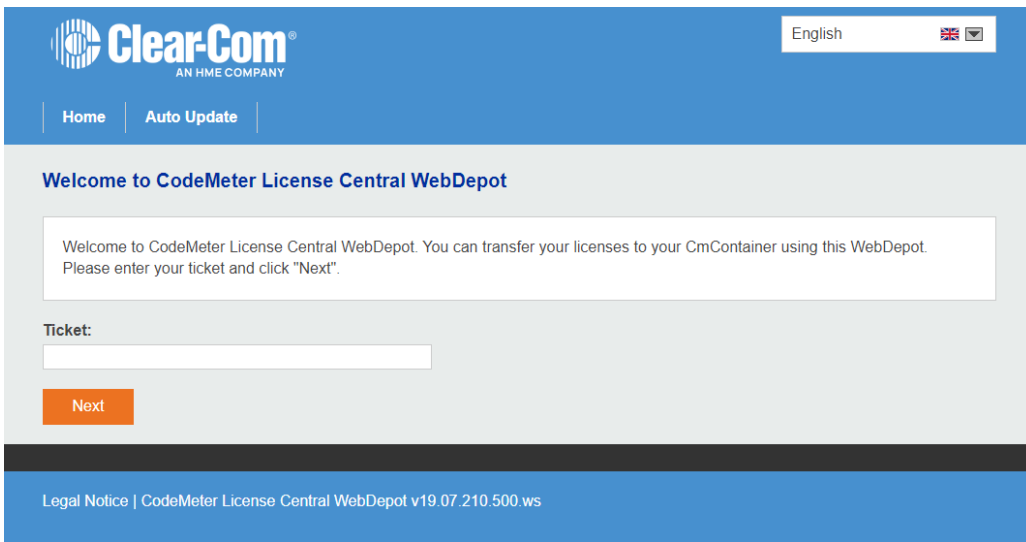


Note: Select your licenses with care as once activated they cannot be moved or transferred to another E-IPA-HX card.

In the CCM of the E-IPA card (see step 1, Online license activation), navigate to **Hardware > License**. Select **Add licenses offline**.

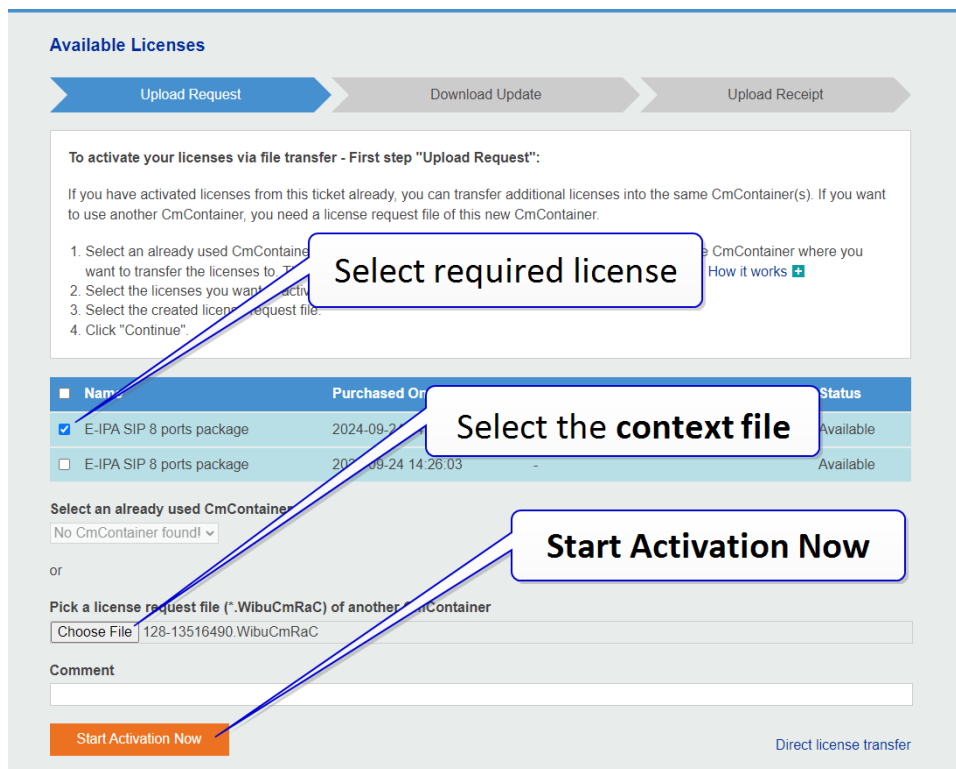


- 1) Select **Get Context File**.
 - a. Save the context file to an appropriate location (a folder or USB stick).
- 2) **Select Access License Server**. This takes you to the Clear-Com online WebDepot.



a. Enter your ticket ID

b. Select Activate License



- c. Select the required license
 - d. Select the context file
 - e. **Start Activation Now**
 - f. Download the upgrade file (.WibuCmRaU)
- 3) In the **Licenses** tab in the CCM, click **Upload License Update File** and navigate to where you have stored the upgrade file. Double click the context file to begin activating licenses.
- 4) Reboot the card to finalize the license activation process.

Checking license allocation

You can check how many ports and channels are available on your card:

- In the CCM under License>Features
- In the EHX Software in the Event Log.

You can check how many ports are available on your card:

- On the front lens of the E-IPA card.

If you try to use more ports or channels than are available on your card, the additional ports or channels will not work.

For example, if a beltpack is unable to connect to a transceiver, consider the possibility of a port/port license mismatch. If a channel is unable to connect, consider a channel/channel license mismatch.

Alternative method for offline license allocation

If you do not wish to active your licenses offline yourself, there is an alternative method available:

Send the:

- context file
- ticket ID
- details of exactly which license you require on the unit

To this address: licenses@clearcom.com

The context file will be returned to you by email, loaded with your licenses. When you receive the loaded context file, upload it to the E-IPA card as in step 3, above.