



Carbon

CathexisVision Carbon 5
Quick Start Guide
(MultiSite and Enterprise)

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While Cathexis has made every effort to ensure the accuracy of this document, there is no guarantee of accuracy, neither explicit nor implied. Specifications are subject to change without notice.

1. Introduction

1.1 This Guide: Connecting to a MultiSite or Enterprise Server with Carbon

The Carbon 5 user interface may connect to:

- a single site/s individually (a single CathexisVision site installation).
- multiple sites simultaneously (a CathexisVision **Multisite** installation).
- multiple sites simultaneously (a CathexisVision **Enterprise** installation).

This short guide provides basic instructions on how to set up **CathexisVision Carbon 5** to connect to a **MultiSite or Enterprise server**. The purpose of this document is to help the user to start using the software as quickly as possible.

For detailed instructions on setting up Carbon 5, and information on specific Carbon features, such as Review, Search, Black Screen monitoring and Archiving, please refer to the [Carbon 5 Manual](#).

Consult the relevant manual for more detailed information or guidance on the CathexisVision server software (e.g. the **CathexisVision Setup Manual**), available on the Cathexis website (<https://cathexisvideo.com>). Alternatively, contact the Cathexis support team: support@cathexisvideo.com.

Note: To use this document and software, the user needs to have a basic understanding of the operating system. The user also needs to know how to do simple administrative tasks. These include adding disks, adding printers, or setting IP addresses.

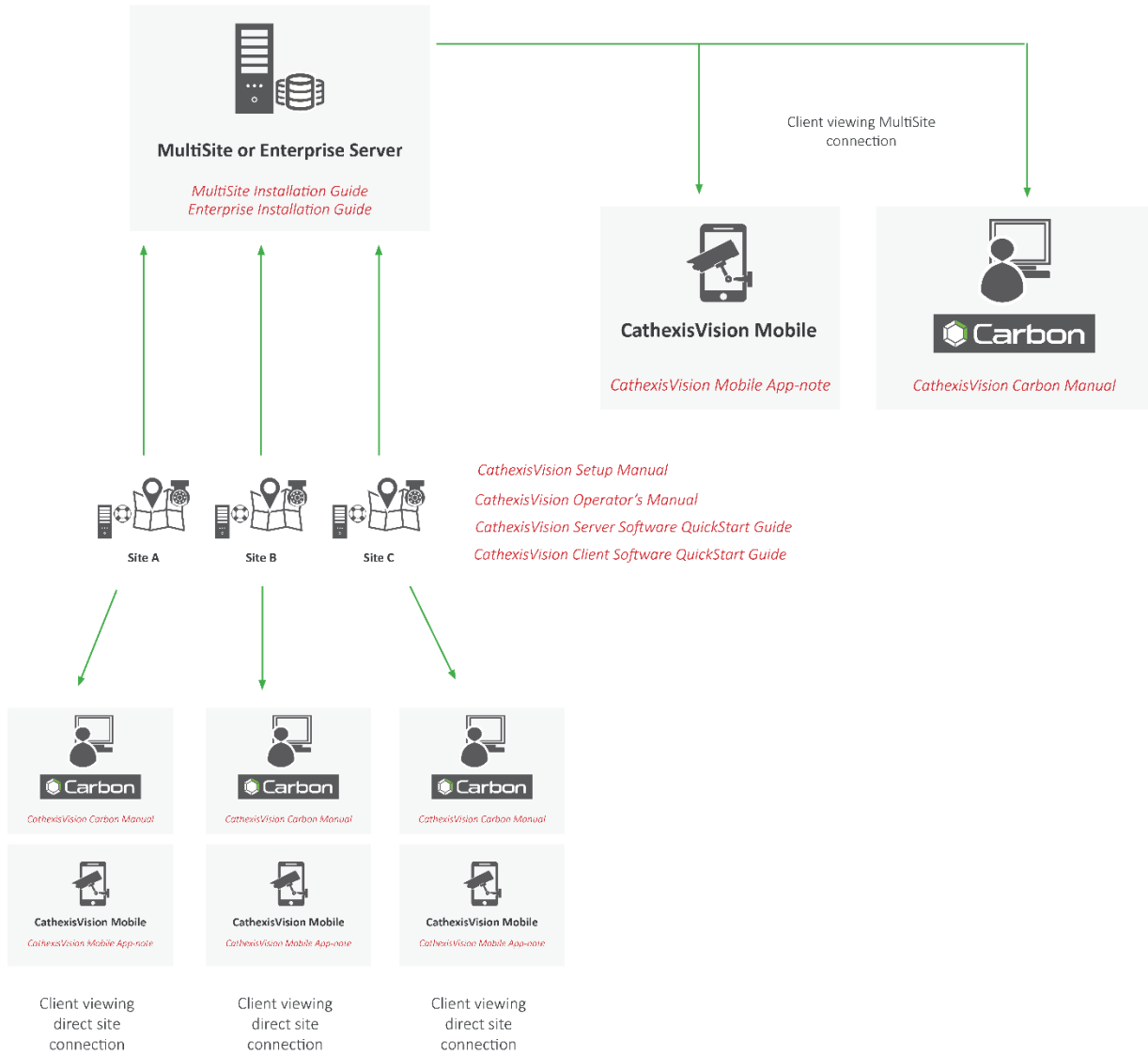
1.1 System Components

<p>Site</p> <p><i>Any single-server system or multi-server system is referred to as a site.</i></p>	<p>In a multi-server system, one of the servers is designated as the “Master”. If a site has more than one server, each server needs to have the CathexisVision software running.</p>
<p>CathexisVision Server software</p> <p><i>This is the software that runs on the recording servers.</i></p>	<p>The CathexisVision server software can be installed on a suitably specified hardware server platform for an advanced, comprehensive site video configuration and management system. It manages the interface to the cameras, storage, and interfaces to 3rd-party products.</p>
<p>CathexisVision Client software</p> <p><i>This is software that allows a connection to the site and its servers.</i></p>	<p>The CathexisVision client gives the ability to connect from a Windows OS PC into a CathexisVision server remotely, as a client station, without the need for a full server installation. Client access to the server depends on the login credentials as configured on the server. This can be from Administrator level with full site configuration rights, down to Operator level, with restricted access to site resources. It allows users to view and review footage, and manage the settings and configuration of the system to which it is connected.</p>
<p>Carbon (client)</p> <p><i>This is the latest version of our viewing client.</i></p>	<p>Carbon allows users to connect to a site and view video, review recorded footage, view integration databases, perform search functions, save footage to user-defined folders/devices, configure access rights, and several other functions. Note: The Carbon client does not enable users to change site or server settings, camera configurations, set up databases, or configure video analytics. To do this, use the CathexisVision client.</p> <p>Carbon can also connect to an Enterprise or a MultiSite.</p>
<p>CathexisVision MultiSite</p> <p><i>A MultiSite is a group of sites to which the Carbon client can connect.</i></p>	<p>CathexisVision MultiSite is configured via a MultiSite server (where CathexisVision MultiSite is installed). It allows users to view video from multiple sites on the same screens simultaneously via the Carbon client.</p>
<p>CathexisVision Enterprise</p> <p><i>An Enterprise is a group of sites to which the Carbon client can connect.</i></p>	<p>Enterprise is like MultiSite in that it groups multiple sites together. It is configured via an Enterprise server. The Enterprise server installation may run on a site, or at a central point (e.g cloud). Enterprise provides a sophisticated viewing, reviewing and management interface, with alarm management, centralised video wall capabilities, enterprise-wide dashboards, hardware reports and many other functions. One connects to the Enterprise server via the Carbon client.</p>

The Carbon user interface may access:

- 👁️ a single site/s individually (a single CathesisVision site installation).
- 👁️ multiple sites simultaneously (a CathesisVision **Multisite** installation).
- 👁️ multiple sites simultaneously (a CathesisVision **Enterprise** installation).

The diagram below illustrates the basic components of Carbon, CathesisVision sites, Enterprise servers, MultiSite servers, and the CathesisVision Mobile app.



1.2 Resources

For more information about Carbon, CathexisVision, CathexisVision Mobile app, or MultiSite and Enterprise products, consult the following documents, available on the Cathexis website (<http://cathexisvideo.com/>):

- | |
|---|
| • <i>Carbon Suite 5 Release Notes</i> |
| • <i>Carbon 5 White Paper</i> |
| • <i>Carbon 5 Operator's Guide</i> |
| • <i>Carbon 5 Manual</i> |
| • <i>Carbon 5 Quick Start Guide (Site)</i> |
| • <i>Carbon 5 Quick Start Guide (MultiSite and Enterprise)</i> |

- | |
|--|
| • <i>CathexisVision MultiSite 5 Installation Guide</i> |
| • <i>CathexisVision Enterprise 5 Installation Guide</i> |

- | |
|---|
| • <i>CathexisVision Mobile 5 App-note</i> |
| • <i>CathexisVision Mobile 5 Quick Guide</i> |
| • <i>CathexisVision Mobile 5 White Paper</i> |

- | |
|--|
| • <i>CathexisVision Setup Manual</i> |
| • <i>CathexisVision Operator's Manual</i> |
| • <i>CathexisVision Server Software Quick Start Guide</i> |
| • <i>CathexisVision Client Software Quick Start Guide</i> |

2. Requirements / Restrictions

2.1 General Requirements

- CathexisVision 2022.1 and later on the site to which the Carbon GUI is connecting.
- CathexisVision Carbon 3.1 or later.
- Windows 10 and later; Window Server 2019 and later.
- Minimum 8GB of RAM required.

2.2 License Requirements

License	Name	Description
None	Carbon	Local sites must be licensed as per existing requirements.

Refer to the **CathexisVision 2023 Software Product Description and Licensing** document, available on the Cathexis website (<https://cathexisvideo.com>), for more information on CathexisVision licensing requirements.

2.2.1 MultiSite Licensing

Included
 License required

CathexisVision Package	MultiSite connection
LITE	No
CORE	<ul style="list-style-type: none"> ○ A camera channel on a CORE site requires a per-camera enabler license in order for it to be presented in MultiSite. ○ Other site feature licenses are required: A CORE site needs to have the appropriate licenses installed in order for its resources to be presented in the MultiSite Video Wall and Maps. Note: Alarms are unavailable for CORE sites connecting to MultiSite.
PROFESSIONAL	<ul style="list-style-type: none"> ✓ Cameras on PROFESSIONAL sites are presented for use in MultiSite automatically. ○ Other site feature licenses are required: A PROFESSIONAL site needs to have the appropriate licenses installed in order for its resources to be presented in the MutiSite Video Wall, Map and Alarms.
PREMIUM	<ul style="list-style-type: none"> ✓ Cameras on PREMIUM sites are presented for use in MultiSite automatically. ✓ Video Wall, Map and Alarms are included in PREMIUM site packages. Therefore, site resources are presented in the MultiSite Video Wall, Map and Alarms automatically.

License code	Feature license required for site resources to be presented in MultiSite
CMSC-1001	Per-camera enabler
CVGA-2001	Video Wall
CMAP-200	Maps
CMSA-2000	Alarms

2.2.2 Enterprise Licensing

✓ Included	○ License required
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Package	Enterprise connection
LITE	No
CORE	<ul style="list-style-type: none"> ○ A camera channel on a CORE site requires a per-camera enabler license (CETC-1001) in order for it to be represented in Enterprise. <i>*Note: All camera channels require an enabler license. If less than 80% of the cameras have enabler licenses, the connection to the Enterprise will be blocked.</i> ✓ Features are presented automatically: A CORE site <i>does not</i> need feature licenses installed in order for its resources to be presented in the Enterprise Video Wall, Map and Alarms. <i>See note below.</i>
PROFESSIONAL	<ul style="list-style-type: none"> ○ A camera channel on a PROFESSIONAL site requires a per-camera enabler license (CETC-1001) in order for it to be represented in Enterprise. <i>*Note: All camera channels require an enabler license. If less than 80% of the cameras have enabler licenses, the connection to the Enterprise will be blocked.</i> ✓ Features are presented automatically: A PROFESSIONAL site <i>does not</i> need feature licenses installed in order for its resources to be presented in the Enterprise Video Wall, Map and Alarms. <i>See note below.</i>
PREMIUM	<ul style="list-style-type: none"> ✓ PREMIUM packages <i>do not</i> require per-camera enabler licenses for Enterprise. ✓ Features are presented automatically: Video Wall, Map and Alarms are included in PREMIUM site packages. Therefore, site resources are presented in the Enterprise Video Wall, Map and Alarms automatically. <i>See note below.</i>

- Note:**
- A site that meets the requirements for connecting to Enterprise (as specified above) will be licensed for Maps on Enterprise. Only enabled cameras will be supported on the map.
 - This will not allow local site maps to work. Local site maps will only work with the appropriate site map license.

2.3 Ports to Open

Open the following ports on an NVR site for incoming connections from Carbon, CathesisVision, or CathesisVision Mobile	NVR site	TCP 30010 to 30100
Open the following ports on an Enterprise/MultiSite to allow incoming Carbon or site connections	MultiSite	TCP 28000 to 28019
	Enterprise	TCP 28000 to 28029

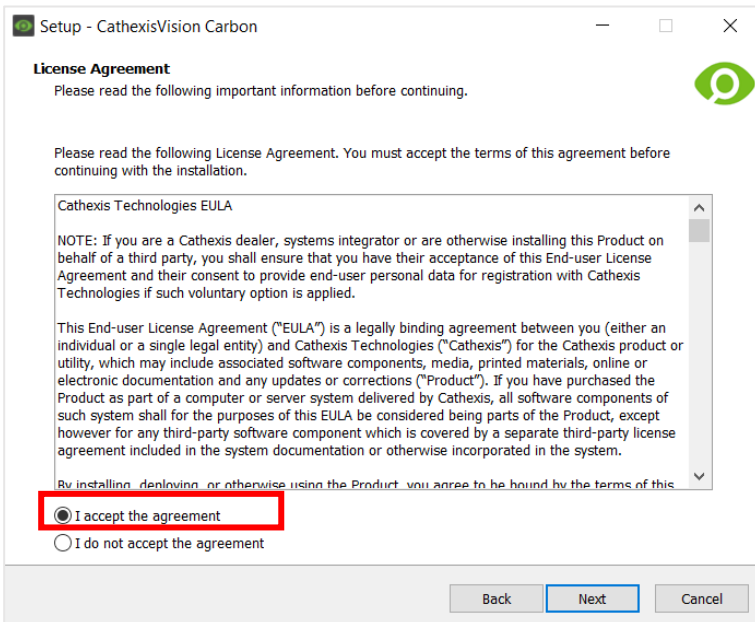
3. Installation of Carbon

Download the CathexisVision Carbon desktop installation software from the Cathexis website at <https://downloads.cathexisvideo.com/> or contact Support at support@cathexisvideo.com

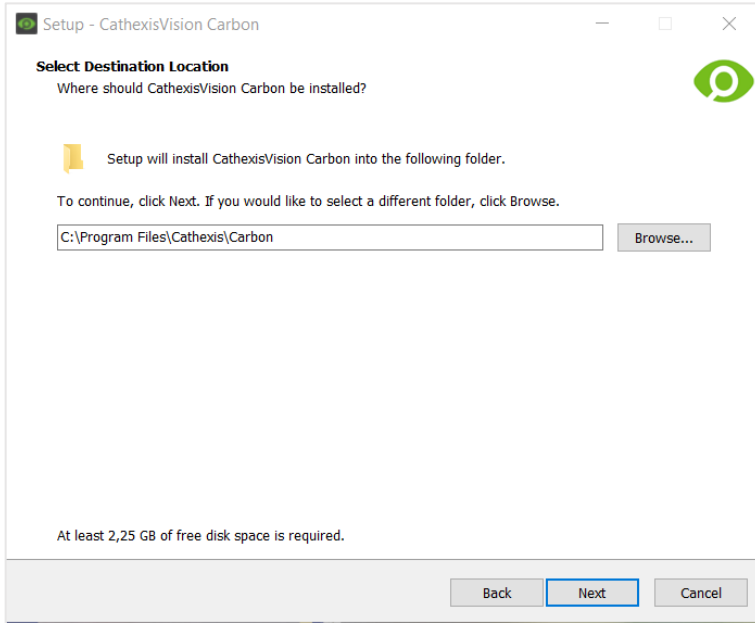
Once the software has been downloaded on the required client unit, run the installation, which will present the setup wizard. Follow the steps below.



- Read the information.
- Click **Next**.

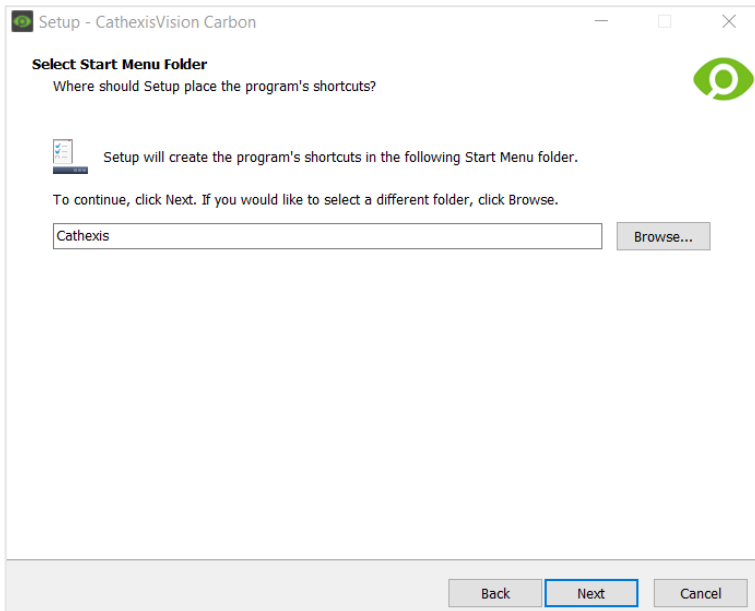


- Read the agreement. Select the option to **accept**.
- Click **Next**.



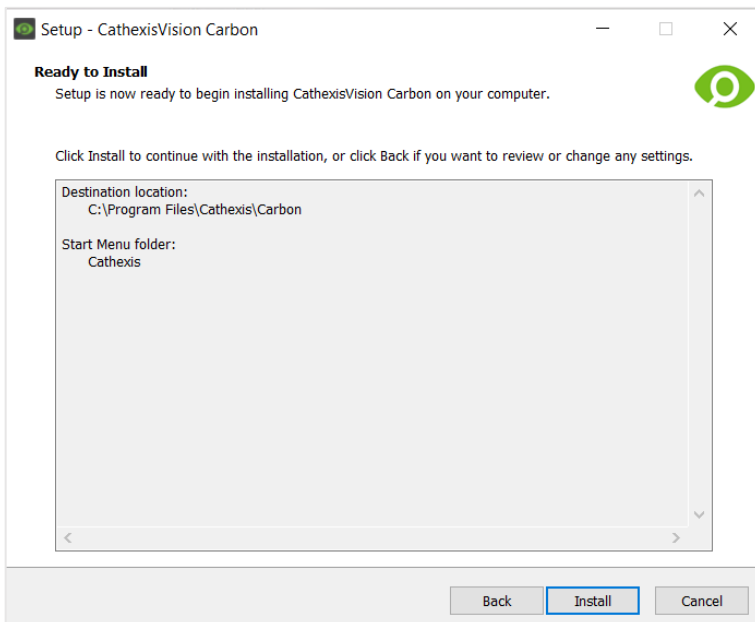
→ Select the folder into which CathesisVision Carbon will be installed.

→ Click **Next**.



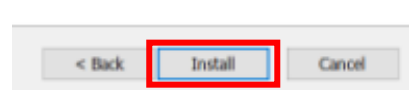
→ Select the Start Menu folder where the Carbon shortcuts will be placed.

→ Click **Next**.



→ Review the installation settings.

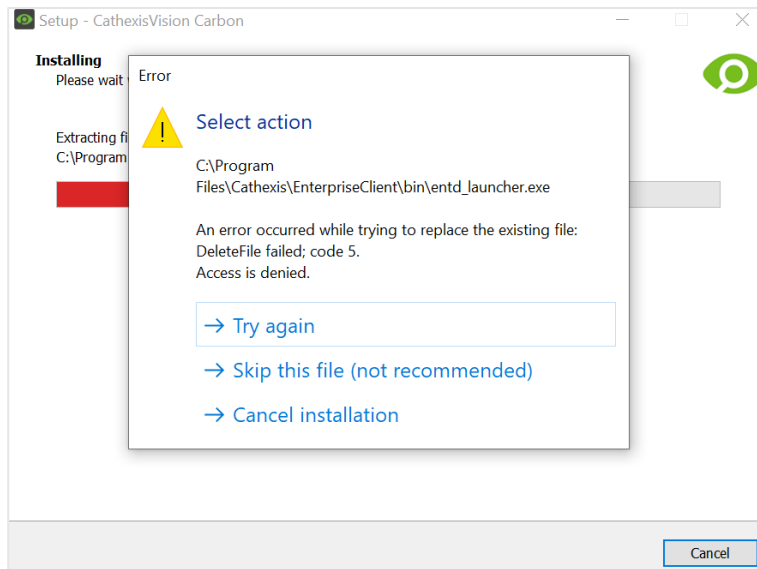
→ Click **Install**.





→ When installation is complete, click **Finish**.

If a Code 5 error occurs, resolve it by making sure the **app and launcher are closed**.



To do this from the Windows task manager:

1. Press Ctrl+Alt+Delete.
2. Select Task manager.
3. Search the options and close related applications.
4. Then return to the error message and select **Try again**.

4. Adding a MultiSite or Enterprise Account

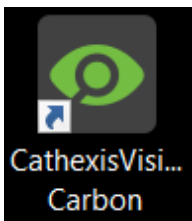
This chapter covers how to add a new account type:

- [MultiSite connection](#)
- [Enterprise connection](#)

4.1 Add a New Account Type (Initial MultiSite Connection)

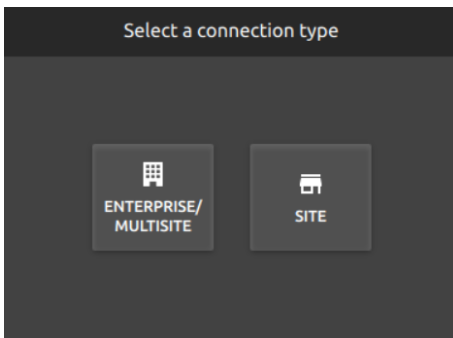


Consult the *CathexisVision MultiSite Installation Guide* for more information on downloading and installing MultiSite.



→ Open Carbon by **double-clicking** the desktop icon.

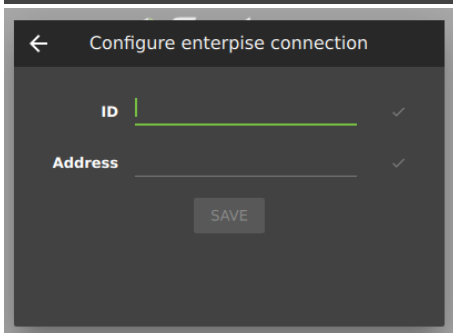
After opening the app for the first time, the new account type screen will open.



→ Choose the **Enterprise / MultiSite** connection type.

This will take the user to the configuration screen.

(Note: See [1.1 System Components](#) for definitions of MultiSite, Enterprise, and other terms.)



→ Enter an **ID** for the MultiSite connection.

→ Enter the **address** of the MultiSite server.

→ Click **SAVE**.

The user may then log in to MultiSite.

4.1.1 MultiSite Login



→ Enter the credentials for **login and password** supplied by the administrator.



Note: The default login for MultiSite is

Username: admin

Password: 123456

→ Click **SIGN IN**.

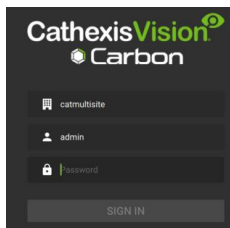
4.1.2 Add a Site to MultiSite

To add a site (i.e. register a site with a MultiSite server):

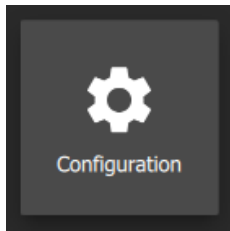
1. The new site must be [added](#) to the MultiSite root domain.
2. The user must initiate a [token](#) from MultiSite.
3. This token must then be [entered](#) on CathexisVision client or server software.

4.1.2.1 Add New Site to Root Domain

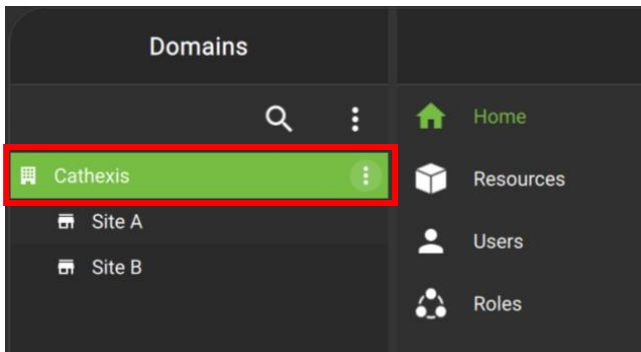
In MultiSite, all sites are attached to the root domain (as opposed to Enterprise, which features a domain tree).



→ Log in to MultiSite through Carbon.



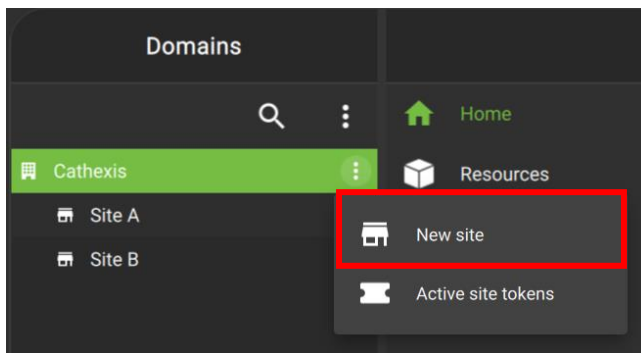
→ From the Carbon home screen, click the **Configuration** icon to open a new tab.



→ Click on the root domain. This action will highlight the root domain in green.

→ Hover the mouse over the right of the highlighted area. The menu icon will appear.

→  Click the menu icon.

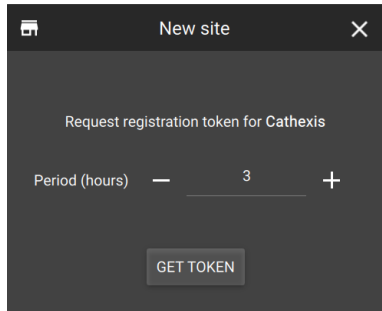


→ Click **New site** to generate a token to add a new site.

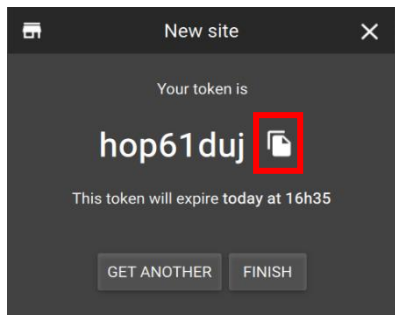
The **New site window** will open.

4.1.2.2 New Site: Get Token


In the **New site window**:



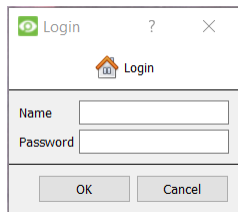
- Select the period (in hours) for which the token will be valid.
- Click **GET TOKEN**.



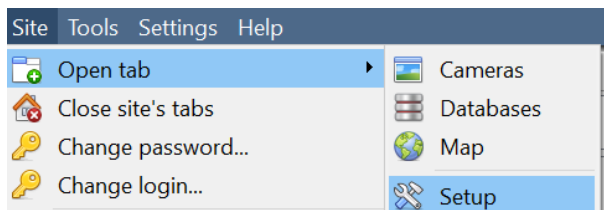
- Click the **copy icon** to copy the token to the clipboard.
- Click **FINISH**.

 **Note:** Clicking FINISH will complete the process of generating the token.


4.1.2.3 Connect CathexisVision Site to MultiSite

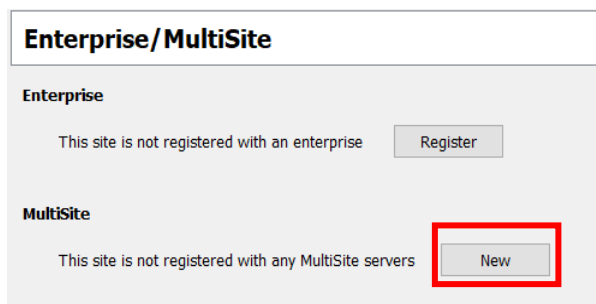


→ **Log in** to the CathexisVision client or server interface.




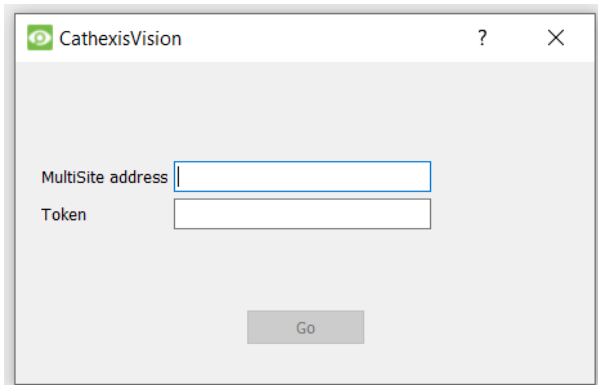
→ Navigate to General setup by following the path: **Site / Open tab / Setup**.

→  Click the **Enterprise/MultiSite icon** on the menu on the left.



→ From the Enterprise/MultiSite panel, click **New** under the MultiSite heading.

 **Note:** Each site that is connected to a MultiSite must have a unique name. If a site being added has the same name as a previously-added site, an error message will appear.

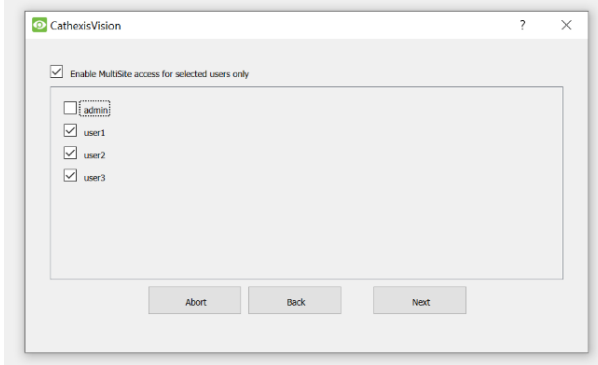


The administrator will enter or provide the **address**. (This is the IP address of the MultiSite server.)

→ Enter the **MultiSite address**.

→ Enter the **token number**.

→ Click **Go**.

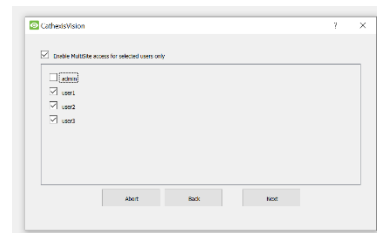


The option to **Enable MultiSite access for selected users** will appear.

If this option is enabled, the selected users (configured in CathesisVision) will be given access to the CathesisVision system through Carbon (MultiSite connection).

→ If choosing to enable MultiSite access for selected users only, check the box.

→ Then, check the boxes to select users. (In the following example, “user1”, “user2” and “user3” have been selected.)

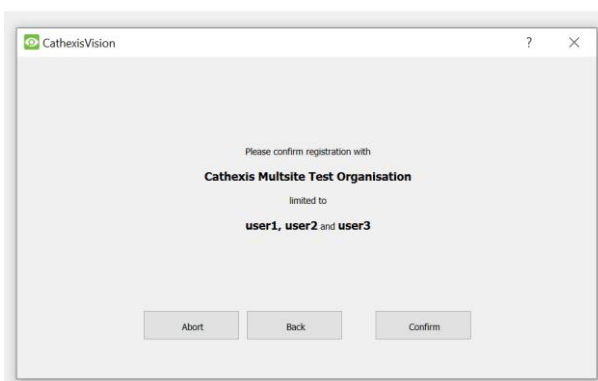


→ Click **Next**.

A window will open.

→ To confirm the site registration, click **Confirm**.

A window will pop up, confirming registration.



The Enterprise/MultiSite management area will now show that the site has been registered and a connection has been established.

cathesis at address 192.168.35.30 limited to admin

Deregister
Change address
Edit users
Connected

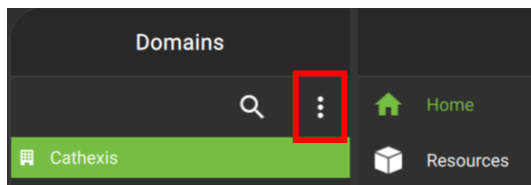
MultiSite registration status: buttons

	To deregister the site from the MultiSite server, click Deregister .
	Click to change the address.
	To edit users, click Edit users .
	The end of the row indicates the connection status.

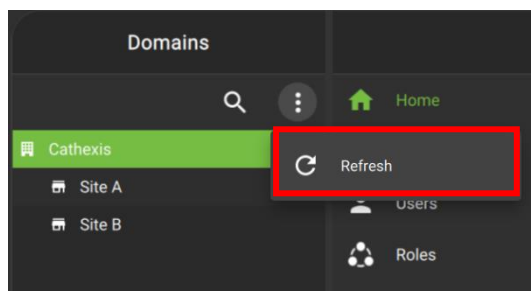
4.1.2.4 View Added Site in Carbon

To view the site, return to the Configuration tab in Carbon. Once refreshed, the site will appear on the folder tree.

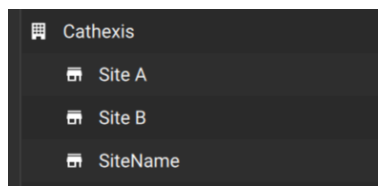
To refresh:



→ Click the horizontal ellipses (menu) icon.



→ Click **Refresh**.

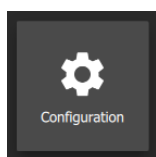


The newly-added site will appear in the folder tree.

4.1.2.5 Complete Configuration of Site Connection to MultiSite in Carbon

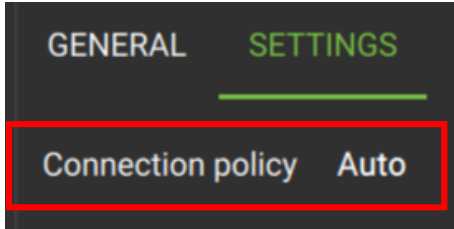
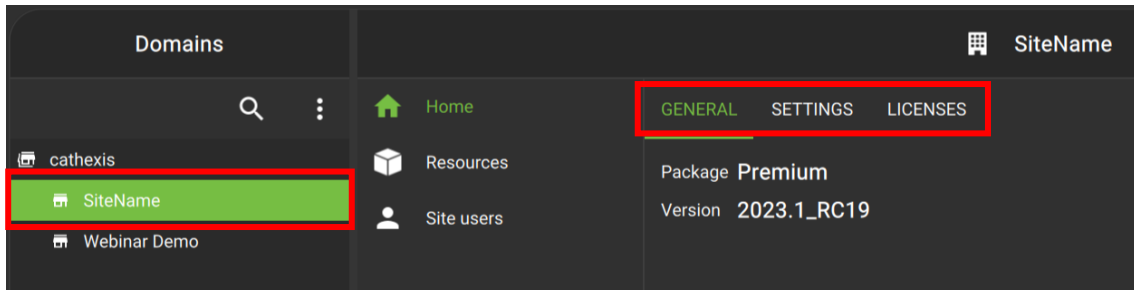


Note: Complete the configuration of the site’s connection to a MultiSite in the Configuration tab of Carbon.

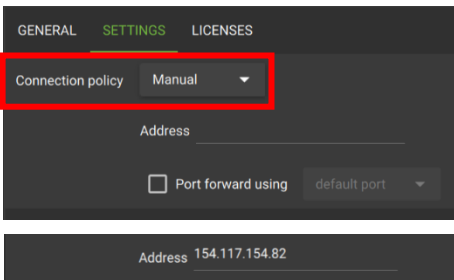


→ Click **Configuration** to open a new tab from the home screen.

→ Select the site in the Domains panel on the left. The right configuration panel will show three tab options: General, **Settings** and Licenses.

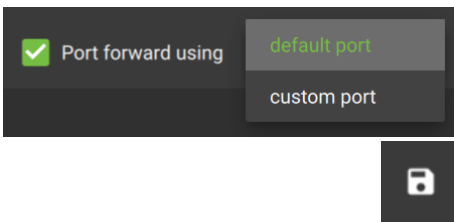


→ Select the Settings tab. Under Settings, the user may edit the site’s connection policy.



→ Click anywhere in the field. The options for editing will appear.


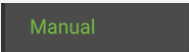
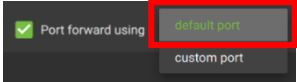
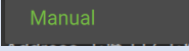
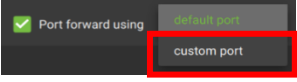
→ **Connection policy:** Choose between *Manual* and *Auto*. See table below for information on different connection types.



→ **Address (if Manual connection policy is selected):** Enter the IP address.

→ **Port forward using:** Choose between default port and custom port.

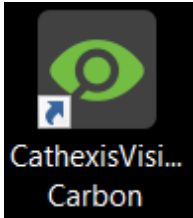
→ Click the **save icon** to save changes.

Connection	Description – cases when connection type is used
<p>Auto</p> 	<p>The MultiSite can determine the IP for the site by looking at the source address of the connection.</p> <p>Site → provides IP to → MultiSite (Carbon can get this IP)</p>
<p>Manual (port forwarding – default port)</p> 	<p>If the site sits behind a firewall, the details may be different. If the firewall has a single port opened and forwarded through to 30011 on the site, the operator can <i>enable port forwarding and use the default port</i>.</p>  <p>Site → Firewall → different IP to site → <i>Manual port forwarding with default port if configured on firewall (30011 to 30011 on site)</i></p>
<p>Manual (port forwarding – custom port)</p> 	<p>If the site sits behind a firewall, the details may be different. If the firewall has a single port opened and forwarded through to 30011 on the site, the operator can <i>enable port forwarding and specify the port in the firewall which is being forwarded</i>.</p>  <p>Site → Firewall → different IP and incoming port for site → <i>Manual port forwarding with custom port (custom port to 30011 on internal site)</i></p>

4.2 Add a New Account Type (Initial Enterprise Connection)

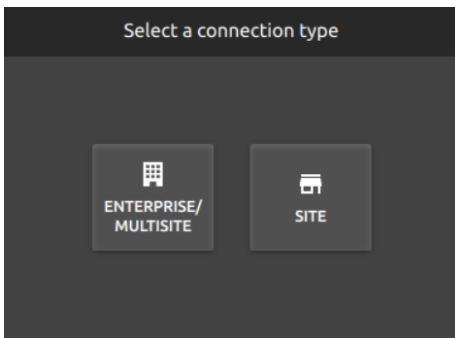


Consult the *CathexisVision Enterprise Installation Guide* for more information on downloading and installing MultiSite.



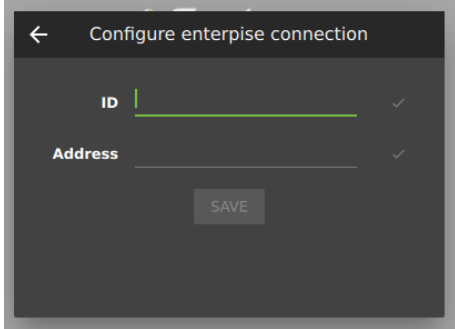
→ Open Carbon by **double-clicking** the desktop icon.

After opening the app for the first time, the new account type screen will open.



→ Choose an **Enterprise / MultiSite** or **Site** connection type. This will take the user to the configuration screen.

(Note: See [1.1 System Components](#) for definitions of MultiSite, Enterprise, and other terms.)



→ Enter an **ID** for the Enterprise connection.

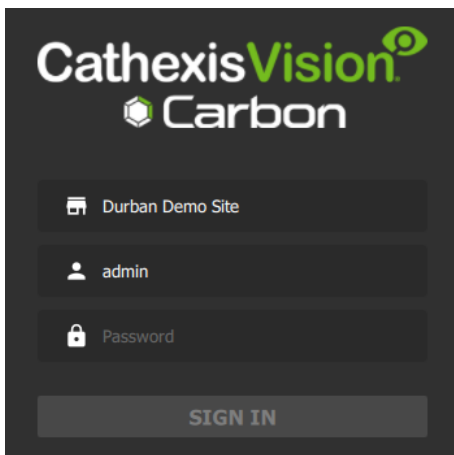
→ Enter the **address** of the MultiSite server.

→ Click **SAVE**.

The user may then log in to Enterprise.

4.2.1 Enterprise Login

Start by logging in.



→ Enter the credentials for **login and password** supplied by the administrator.



Note: The default login for Enterprise is

Username: admin

Password: 123456

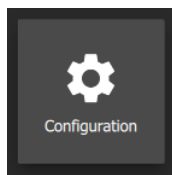
→ Click **SIGN IN**.

4.2.2 Add a Site to Enterprise

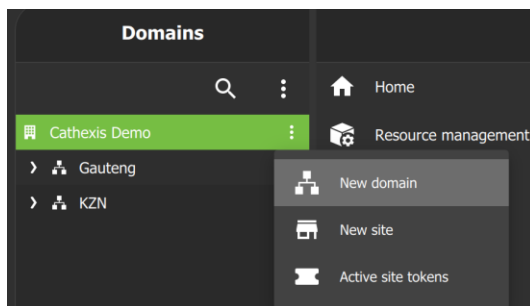
To add or connect to a CathesisVision site from the Enterprise, the user should first add or organise domains (groups) in the Enterprise interface.

The individual sites will be need to be arranged in groups or domains on a folder tree. Add these in the configuration menu.

4.2.2.1 Add Domain



→ Click **Configuration** to open a new tab from the home screen.



→ Click on the **root folder** in the folder tree.

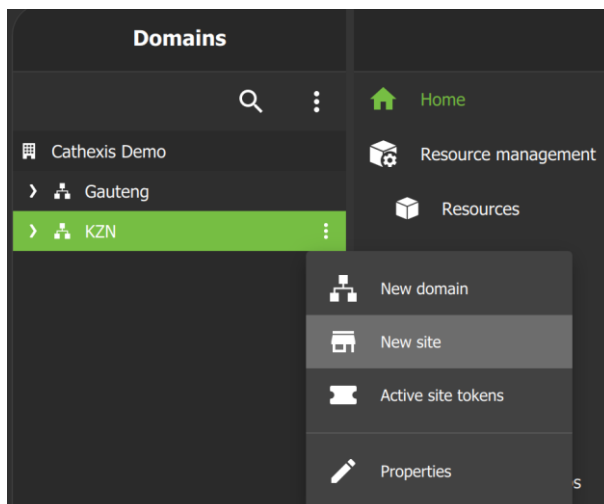


→ **Hover** using the mouse then click the menu icon.

→ Click on **New Domain** to extend the tree structure.

4.2.2.2 Get Token

To add a site, a user must first initiate a token from Carbon. This token can be entered on CathesisVision client or server software.

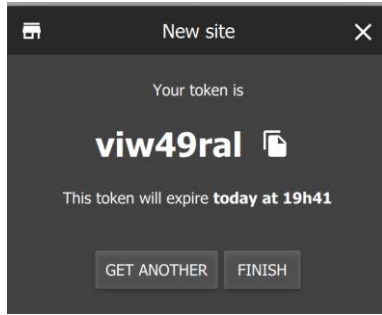



→ To begin adding a site, **select the relevant domain or group** to which the site will belong.




→ **Hover** over the folder tree to see the **menu icon**. Click to select.

→ Then click **New site** to begin generating a token.

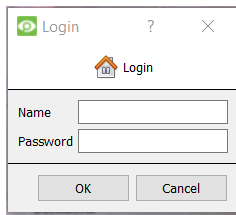


 → **Copy** the token by clicking the copy icon.

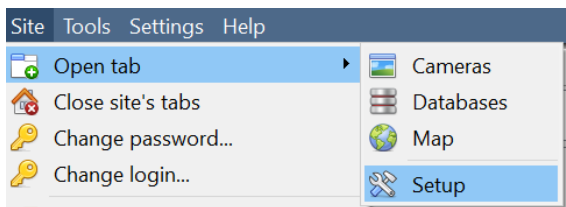
→ Click **FINISH**.

 **Note:** Clicking **FINISH** will complete the process of generating the token.

4.2.2.3 Connect a CathexisVision Site to Enterprise



→ **Log in** to the CathexisVision client or server interface with a username and password.



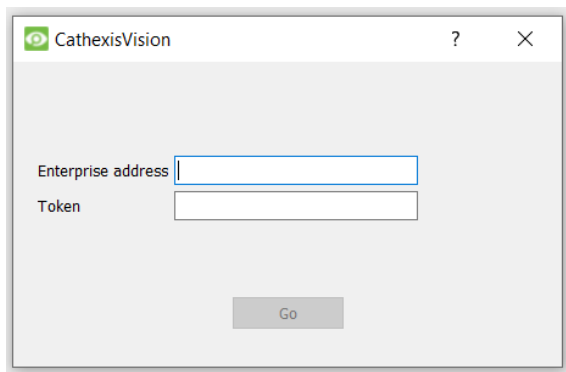
→ Navigate to General setup by following the path: **Site / Open tab / Setup**.



→ Click on the **Enterprise/MultiSite icon** on the menu on the left.



→ From the Enterprise panel, click **Register**.

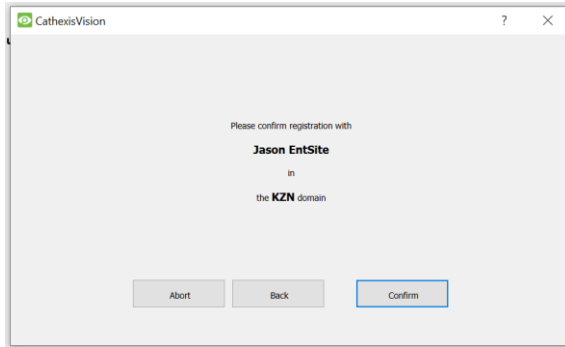


The administrator will provide the **address**.

→ Enter the Enterprise **address**.

→ Enter the **token** code.

→ Click **Go**.



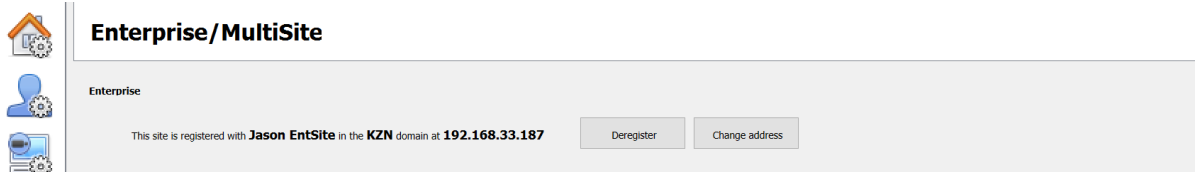
A window will open.

→ To confirm the site registration, click **Confirm**.

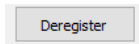
A window will pop up, confirming registration.



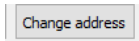
The Enterprise/MultiSite management area will now show that the site has been registered and a connection has been established.



Enterprise registration status: buttons



To deregister the site from the Enterprise server, click **Deregister**.

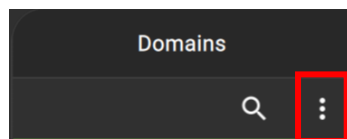


Click to change the address.

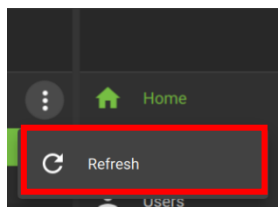
4.2.2.4 View Added Site in Carbon

To view the site, return to the Resources folder tree in Carbon. Once refreshed, the site will appear on the folder tree.

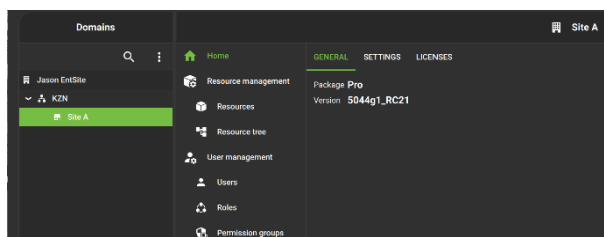
To refresh:



→ Click the horizontal ellipses (menu) icon.




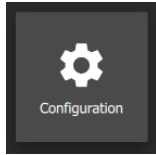
→ Click **Refresh**.



The newly-added site will appear in the folder tree.

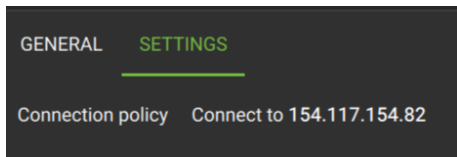
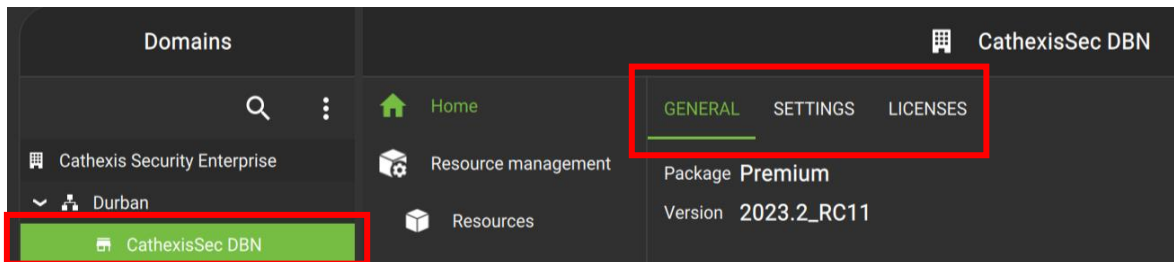
4.2.2.5 Complete Configuration of Site Connection to Enterprise in Carbon

 **Note:** The configuration of the site’s connection to Enterprise will need to be completed in the Configuration tab of Carbon.



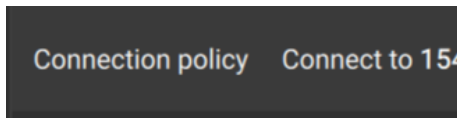
→ Click **Configuration** to open a new tab from the home screen.

→ Select the site in the Domains panel on the left. The right configuration panel will show three tab options: General, **Settings** and Licenses.



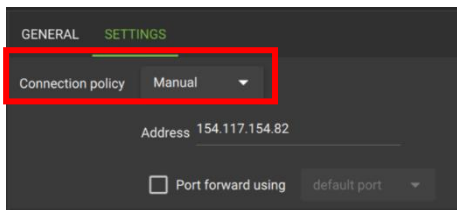
→ Select the Settings tab.

Under Settings, the user may edit the site’s connection policy.

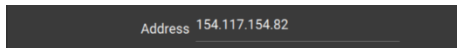
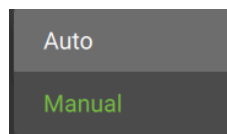


→ Click anywhere in the field.

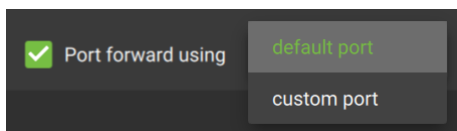
The options for editing will appear.



→ **Connection policy:** Choose between Manual and Auto. See table below for information on different connection types.



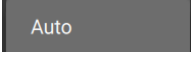
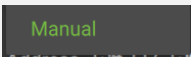
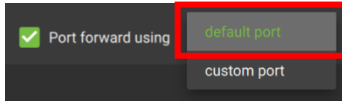
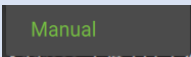
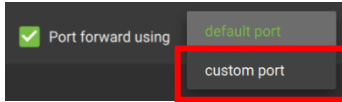
→ **Address (if Manual connection policy is selected):** Enter the IP address.



→ **Port forward using:** Choose between default port and custom port.

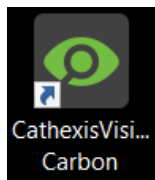


→ Click the **save icon** to save changes.

Connection	Description – cases when connection type is used
<p>Auto</p> 	<p>The Enterprise can determine the IP for the site by looking at the source address of the connection.</p> <p>Site → provides IP to → Enterprise (Carbon can get this IP)</p>
<p>Manual (port forwarding – default port)</p> 	<p>If the site sits behind a firewall, the details may be different. If the firewall has a single port opened and forwarded through to 30011 on the site, the operator can <i>enable port forwarding and use the default port</i>.</p>  <p>Site → Firewall → different IP to site → <i>Manual port forwarding with default port if configured on firewall (30011 to 30011 on site)</i></p>
<p>Manual (port forwarding – custom port)</p> 	<p>If the site sits behind a firewall, the details may be different. If the firewall has a single port opened and forwarded through to 30011 on the site, the operator can <i>enable port forwarding and specify the port in the firewall which is being forwarded</i>.</p>  <p>Site → Firewall → different IP and incoming port for site → <i>Manual port forwarding with custom port (custom port to 30011 on internal site)</i></p>

4.3 Change MultiSite or Enterprise Connection: Subsequent Logins

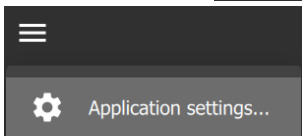
Note: It is not possible to connect to more than one MultiSite or Enterprise simultaneously.



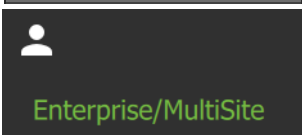
- Open Carbon by **double-clicking** the desktop icon.
- Or, if Carbon is already open, sign out of the current site.



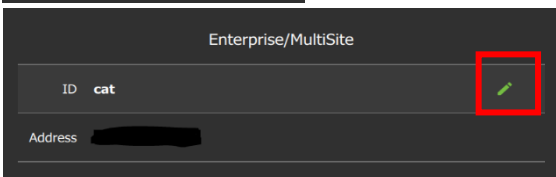
- Click the **menu icon** in the top left corner.



- Select **Application settings**.



- Select Enterprise/MultiSite in the menu.



- Hover the mouse over the side of the ID or Address field. The edit icon will appear.

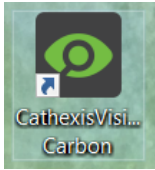
- Click the **edit icon** to edit the field.

- Enter the details for the Enterprise or MultiSite connection.



- Click the save icon to save changes.

5. General Interface



Double-click the icon to open CathexisVision Carbon.

5.1 Start Screen

Once Carbon has been opened, the start screen will display:

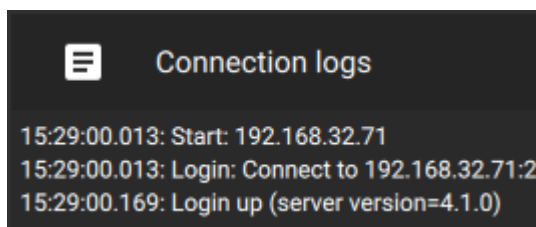
Further options menu in the top left

Login area

Connection log button in the bottom right corner

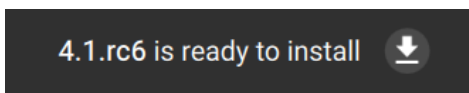
5.1.1 Connection Logs

→ Click the Connection log button to display information about the recent connections that have been made through Carbon.



5.1.2 Updates (Enterprise Only)

Note: Updates are only available on Enterprise.



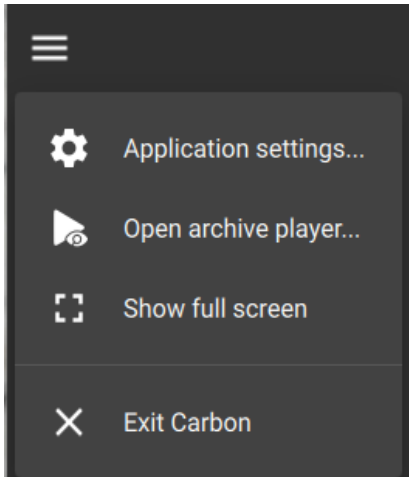
If updates are enabled, the link to download available updates will be shown at the top of the start screen.

5.2 Further Options Menu



Click the **menu icon** in the top-left corner.

The following menu will appear.



Click the **gear icon** to open [Application settings](#).



Click to open the [Archive player](#) directly.



Click to **show full screen** or **exit full screen**.



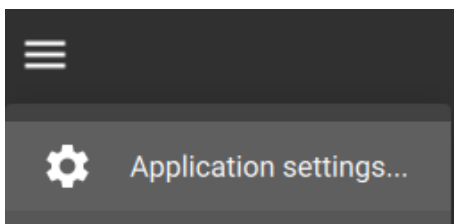
Exit and close Carbon.

5.2.1 Application Settings



Note: It is not necessary to set up Carbon prior to logging in, but the operator may wish to configure updates or other settings.

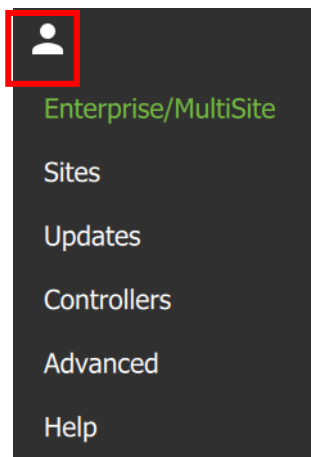
The user must log out in order to access these settings.



→ Click the **menu icon**.

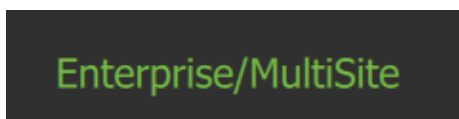
→ Then, **select "Application settings"** from the drop-down menu.

A new menu will appear and the main window will change.

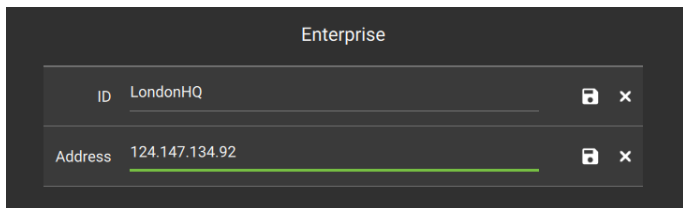


To return to the login screen, select the user icon.

5.2.1.1 Application Settings: Enterprise (Edit Connection Properties)



→ To edit Enterprise or MultiSite connections, select “Enterprise/MultiSite”.



→ Click the **ID** field to edit the name of the Enterprise connection.

→ Click the **save** icon.

→ Click the **Address** field and edit the IP address.

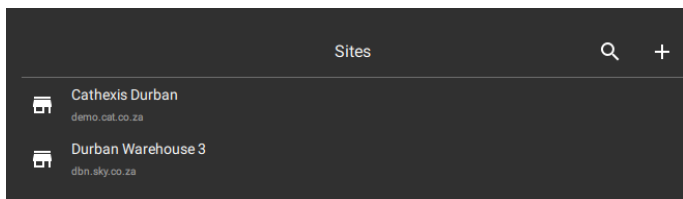
→ Click the **save** icon.

5.2.1.2 Application Settings: Sites (Edit Connection Properties)



→ To edit Sites connections, select “**Sites**”.

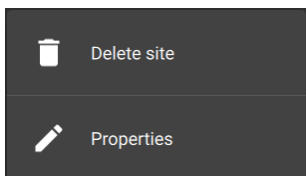
Available site names and addresses will appear in the main panel in the centre of the screen.



→ To edit a site, **hover** over the field until the **menu icon** appears.

→ Click the icon to select.

The following dop-down menu will appear:

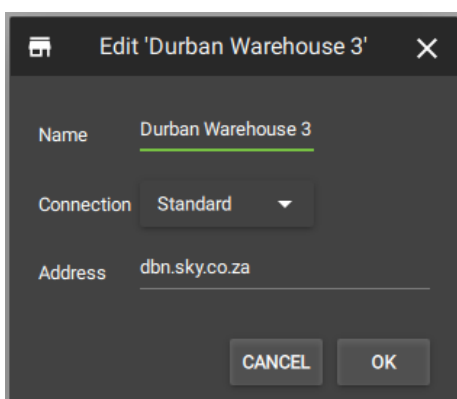


Click **Delete site** to remove a site.

Select **Properties** to edit.

Properties

A new dialogue will open.



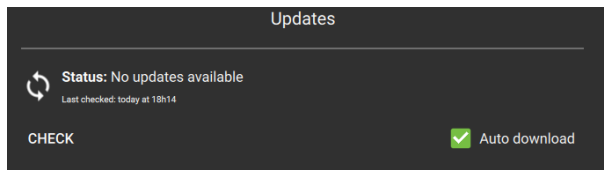
Change the **Name** and **Address** by re-entering details in the fields.

Click OK to save changes.

5.2.1.3 Application Settings: Updates



→ Select **Updates** from the menu.



Click **Check** to see whether a new update is available.



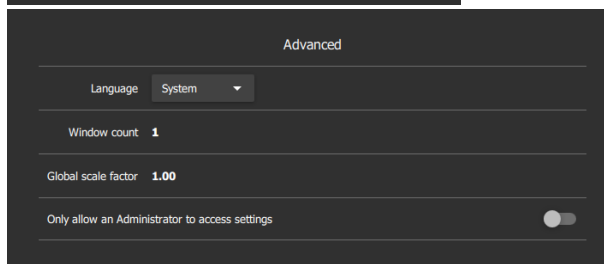
Check **Auto download** to set up **automatic downloads** of updates, or uncheck the box to manage updates manually.

Note: When automatic downloads are selected, each update will need to be added to the Enterprise server manually by an administrator.

5.2.1.4 Application Settings: Advanced

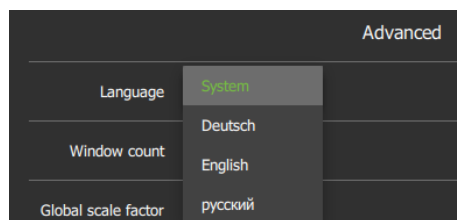


Select **Advanced** from the menu.



The Advanced settings options will appear in the main panel in the centre of the screen.

Change Language



From this Advanced Settings menu, click the drop-down menu to select a **Language**.

Choose between System, Deutsch, English, and Russian.

Changes will save upon exit.

Change Window Count

Window count can increase the total number of windows open on the desktop.



To **edit** Window count, **hover** over the field until the edit icon appears, and **click it**.

The field will become active:



Use the **plus and minus signs** to increase or decrease the window count.



Then, click the **save icon** to keep changes.

Change Global Scale Factor (Size)

Global scale factor increases the size and appearance of the everything in the user interface.



To **edit** Global Scale factor, **hover** over the field until the edit icon appears, and **click**.

The field will become active:



Use the **plus and minus signs** to change the scale factor.



Then, click **the save icon** to keep changes.

Increase by 1.25 will show the display at 125% of the standard size.

To increase the size of the timeline only, see [3.3.5.2 Global Settings](#).

Administrator Access Settings



Toggle the switch on the **Administrator access** to enable this feature. This will allow only operating system administrators to be change settings.

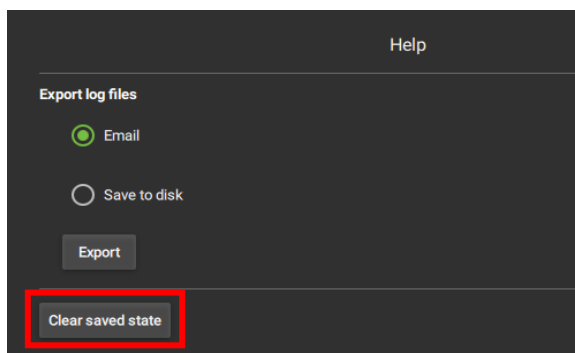
A dialogue box will pop up asking permission for the app to make changes to device.

Click Yes to enable the administrator-only feature.

5.2.1.5 Application Settings: Help



→ To configure help settings, select **Help** from the drop-down menu.



Select from options to

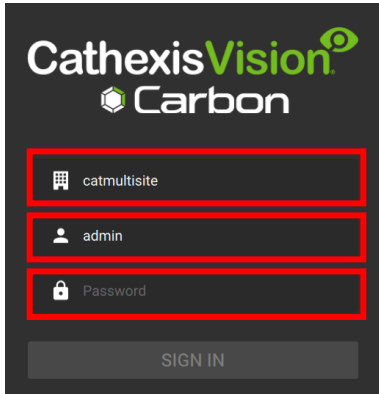
- Email log files or
- Save to disk.

→ Click **Export**.

Use the **Clear saved state** button to Reset the saved tabs from the previous session.

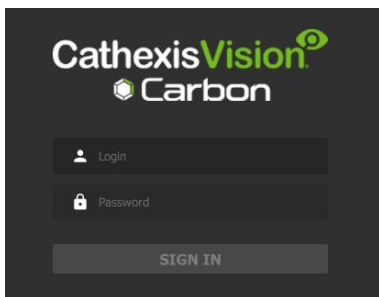
5.3 Log In

The layout of the **Log in** area is as follows:



- Type of connection (site, MultiSite or Enterprise)
- Login
- Password

To log in:



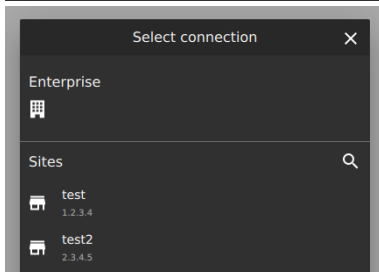
- Enter the credentials for **login and password**.
- Click **SIGN IN**.



To choose a different site or connection at login:

If the additional field is displayed in the top row, **clicking the field** will present more options.

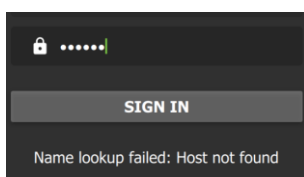
A new dialogue box will open.



- Select the desired **connection** from the preconfigured options.



Note: Both Enterprise and MultiSite connections must be configured in the top panel (labelled Enterprise).



If the **Name lookup failed** error message is received, there may be a problem with the internet or network **connection**.

Contact the Administrator to check the connection.

5.4 User Settings

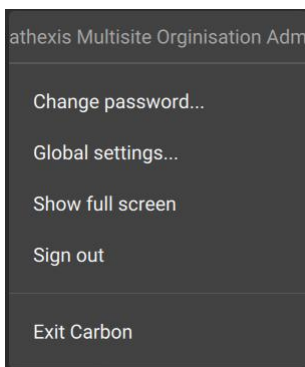
After logging in, some user settings can be changed from the home screen. These settings modify how the interface is used.



Click the **user icon** to configure further settings.

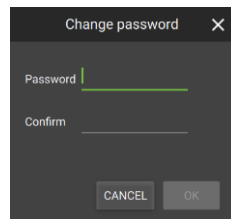
Click the **server icon** to check server details.

5.4.1 Further Settings: Change Password



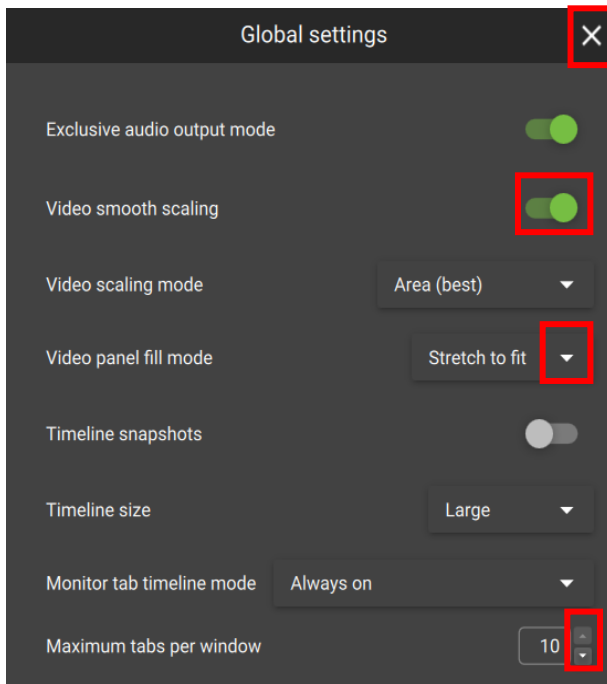
Select **Change password...** from the drop-down menu.

A new dialogue box will open.



5.4.2 Further Settings: Global Settings

Select **Global settings...** from the menu to make changes to the appearance of the interface and the way it is used.



Click the **cancel icon** at any time to **exit**. This will **save changes**.

Toggle the switches to enable or disable features.

Click the drop-down menus to see more options. Then click to select.

Click the arrows to increase or decrease quantities.

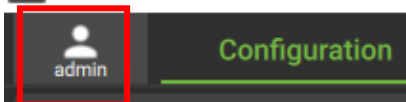
GLOBAL SETTINGS OPTIONS	DETAILS
Exclusive audio output mode	This allows audio to play for only one camera at a time.
Video smooth scaling	This fits cameras into displays using a higher performance mode. It offers better picture quality and takes more processing power.
Video scaling mode	Choose between options for better video image quality or faster performance. <ul style="list-style-type: none"> • Area (best) • Bilinear (fastest)
Video panel fill mode	Choose how the video feed fills the display panels. <ul style="list-style-type: none"> • Normal • Crop to fit • Stretch to fit
Timeline snapshots	This shows a thumbnail on the timeline of the footage when the mouse hovers over a point in time.
Timeline size	Change the size of the timeline when viewing or reviewing footage. Choose from: <ul style="list-style-type: none"> • Small • Medium • Large
Monitoring tab timeline mode	Choose to see the timeline in the Monitoring tab at certain times only, or at all times: <ul style="list-style-type: none"> • Always on • Review only • Always off • Review on, live auto
Maximum tabs per window	This will change the total tabs that can be opened from the home screen, where 10 is the maximum.

Note: For settings regarding resources, roles and permissions, see instructions in [8. Configuration Tab](#).

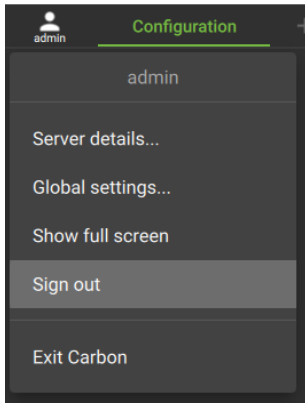
5.4.3 Signing Out: Return to Menu

In order to sign in to another account, it is necessary to log out first and return to the main menu.

CathexisVision Carbon - 4.1.



→ Click the user icon at the top of the screen.



A drop-down menu will appear.

→ Click **Sign out**.

The user will be logged out and returned to the Sign in screen.

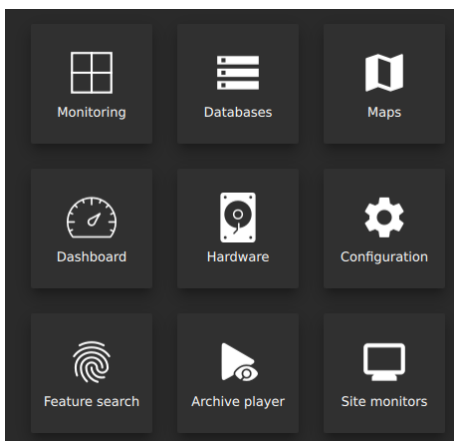
5.5 Home Menu Tab

Navigate the Carbon interface by opening tabs from the home menu.

- Tabs remain open during a session and will automatically be saved for the next session.
- Tabs are accessed by a mouse left-click on the “+” in the top bar of the GUI next to the “admin” icon.

<p>A Site connection displays the following tabs:</p> <ul style="list-style-type: none"> ✓ Monitoring ✓ Databases ✓ Maps ✓ Configuration ✓ Feature search ✓ Archive player ✓ Site monitors 	<p>A MultiSite connection displays the following tabs:</p> <ul style="list-style-type: none"> ✓ Monitoring ✓ Databases ✓ Maps ✓ Configuration ✓ Feature search ✓ Archive player ✓ Site monitors 	<p>An Enterprise connection displays the following tabs:</p> <ul style="list-style-type: none"> ✓ Monitoring ✓ Databases ✓ Maps ✓ Configuration ✓ Feature Search ✓ Archive player ✓ Site monitors ✓ Dashboard ✓ Hardware
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5.5.1 Using Tabs

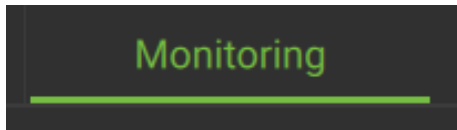


→ **Select an option** from one of the menu items, and it will open as a new tab.

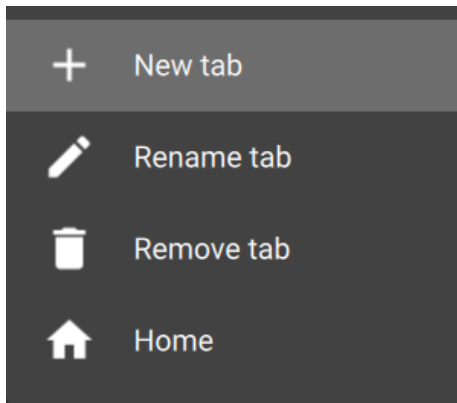
All open tabs can be viewed along the top of the screen.

5.5.1.1 Right-click on a Tab: New, Rename, or Remove Tab

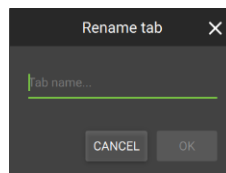
Right-clicking on a tab will open a menu where the user can add a new tab, rename a tab, remove the tab, or return to the Home Menu.



- Right-click on a tab.
- A menu will appear.



- Click on **New tab** to open a new tab, which will show the Home Menu.
- Select **Rename tab** to rename the selected tab.



- Select **Remove tab** to remove the selected tab.
- Select **Home** to return to the Home Menu in the selected tab.

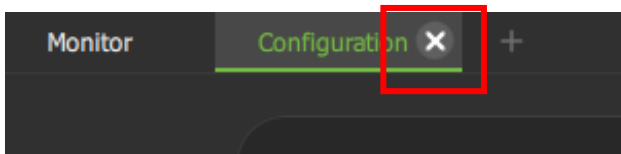
5.5.1.2 Return to Home Menu



To return to the *home menu tab* at any time, **click** the **plus icon** at the top of the screen.

This will open a new *home menu tab*, and allow the user to add new tabs from the main menu.

5.5.2 Closing Tabs



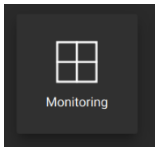
To close a tab, **hover** the mouse over the tab label until the cancel icon appears.



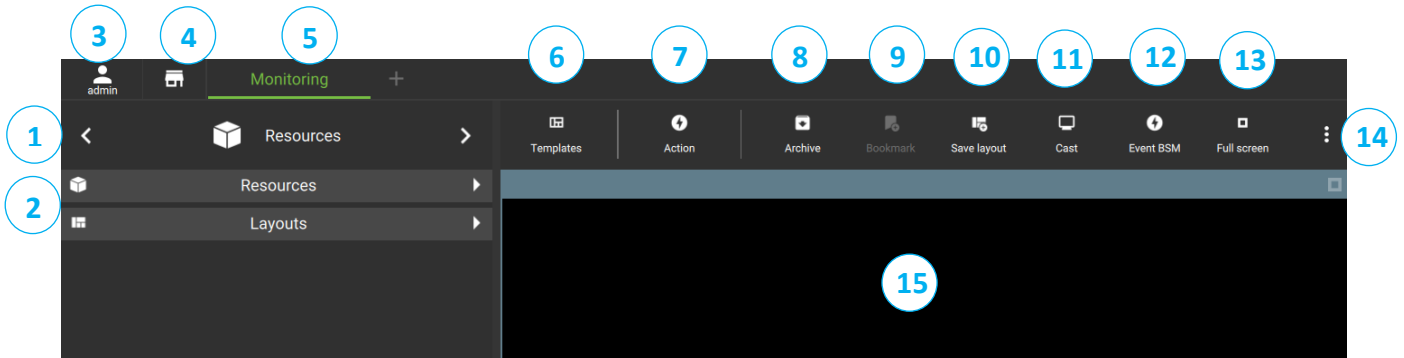
Click the cancel icon to close the tab.

6. Viewing Cameras

The Monitoring tab is where cameras and resources and can be viewed, reviewed, searched, and archived.



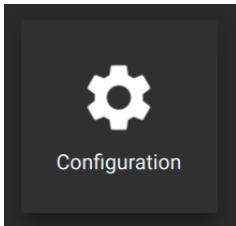
From the home menu, click the Monitoring icon to create a new Monitoring tab.



	Description
1	Click the arrows on the left and right to move between Resources , Bookmarks , Layouts , and Cameras with Activity . Alternatively, click on the name to display a drop-down menu.
2	Click to view saved layouts and resources .
3	Click the user icon to configure Global settings, Show full screen, Sign out, or Exit Carbon.
4	Click on the site/installation icon to view server details.
5	The selected tab will be highlighted in green.
6	Click to select a template , open the template editor, or remove a template.
7	Click to switch all feeds to live, review all live fees, pause/unpause all feeds, or clear all panels.
8	Click to open the Archive builder .
9	Click to open Bookmarks .
10	Click to save a layout .
11	Click to send/cast a layout to a site monitor .
12	Click to open Event black screen monitor .
	Click to open Alarm black screen monitor .
13	Click to make the monitor panels full screen.
14	Monitoring Tab Settings Menu
15	Camera Panel Display

7. Add a User to a MultiSite or Enterprise and Manage Permissions

To add a user to a MultiSite or Enterprise, open the Configuration tab.

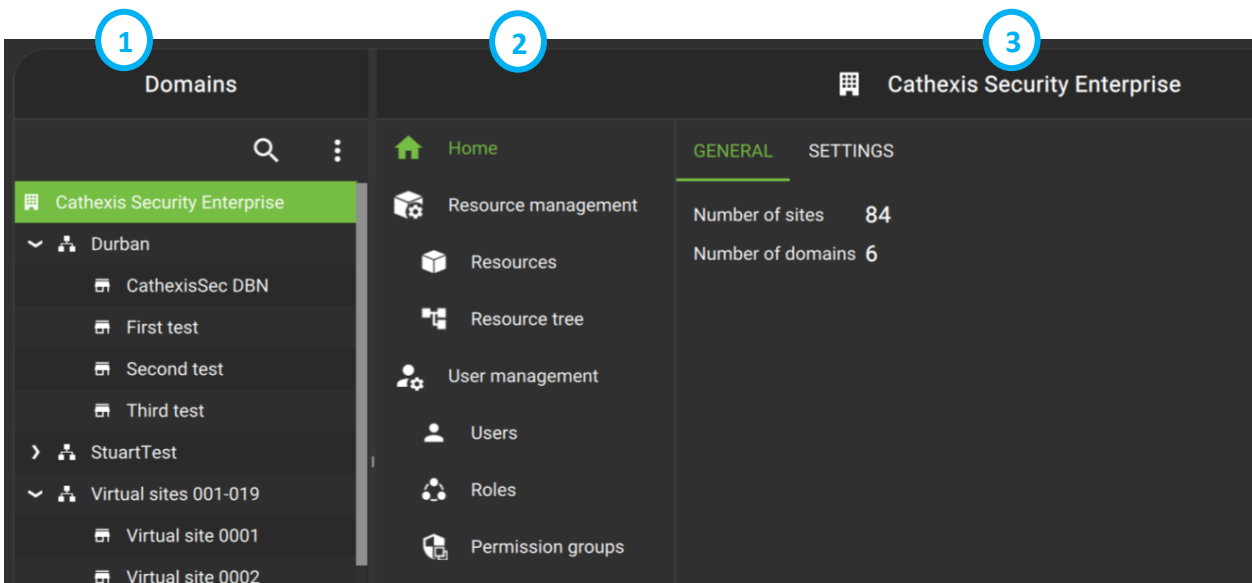


From the home menu, click the Configuration icon to open a new Configuration tab.

- The Configuration tab allows users to edit connection settings, organise resources, and to view and edit user roles (access levels) and permissions.
- In Carbon, access levels are renamable, and are called Roles.

7.1 Navigating the Configuration Tab

There are minor differences in the presentation of the Configuration Tab menu for site, MultiSite, or Enterprise connections.



1) Domain panel

2) Menu panel

3) Configuration panel

1	<p>In the domain panel, select the MultiSite or Enterprise installation, a domain, sub-domain, or site to be configured.</p> <p>Note: The domain panel will only be displayed when viewing MultiSite or Enterprise installations.</p>
2	<p>The menu panel comprises the Home Menu, Resource Management and User Management. After choosing an installation, domain or site in the domain panel (1), select the area to be configured (2).</p>
3	<p>In the configuration panel on the right, the operator can configure settings for the options selected in the domain panel and menu panel.</p>

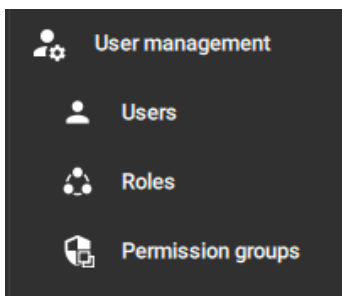
7.1.1 Domain Panel Further Options (MultiSite and Enterprise)



Click on the vertical ellipses (menu) icons in the Doman panel to configure further options.

		Top menu:
		<ul style="list-style-type: none"> Refresh
		Enterprise menu:
		<ul style="list-style-type: none"> Add a new domain Add a new site View active site tokens
		MultiSite menu:
		<ul style="list-style-type: none"> Add a new site View active site tokens
		Domain menu:
		<ul style="list-style-type: none"> Add a new domain Add a new site View active site tokens Configure properties
		Site menu:
		<ul style="list-style-type: none"> Delete site

7.2 User Management (Users)



Access rights can be added or changed for users in several ways in the User Management section.

Note:

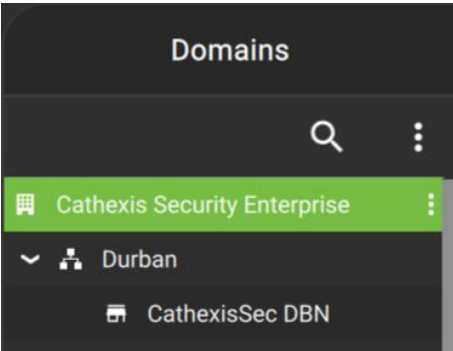
- The presentation of these options may differ among Site connections, MultiSite and Enterprise.
- Options presented will also depend on the user’s access rights.

Users	<p>The Users section allows resources to be added to individual users.</p> <p>The Users section also allows permissions for individual users to be managed.</p>
Roles	<p>Alternatively, access can be managed by allocating Roles to users.</p> <p>Roles are renamable and replace Levels (in CathexisVision), so that settings can be shared.</p>

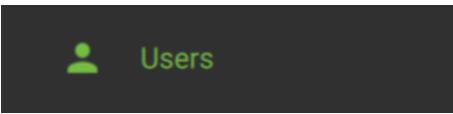
Permission groups are groups of like resources which can be added to a User or Role. This means that permissions for multiple similar resources can be edited at once. Permissions for the permission group must be edited in the Users or Roles sections.

Note: New users for Site connections must be added in CathexisVision. To do so, navigate to **Site/Open tab/Setup** and select the Users icon. Consult the *CathexisVision Setup Manual* for more information.

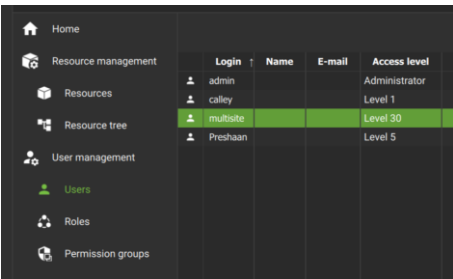
1. Navigate to Users



In the Domains panel: Select the installation, domain or site.

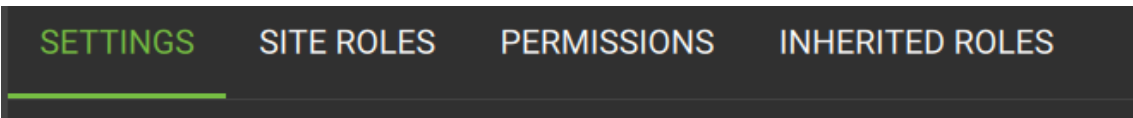


In the Menu panel: Click Users.



In the Configuration panel: The list of users will be displayed in the panel on the right.

2. Then, open User properties to:



Change User Details

Edit Site Roles
Note: The Site Roles option will only appear in MultiSite connections.

Manage User Permissions

Manage Inherited Roles

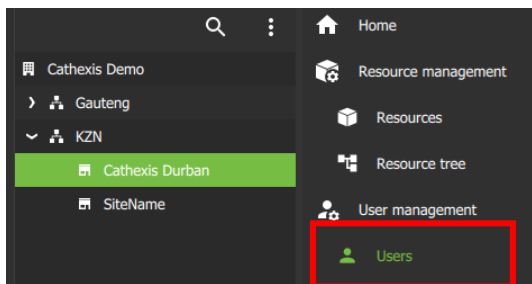
See instructions below.

7.2.1 Add, Delete or Disable a User (MultiSite and Enterprise Only)

It is possible to:

- Add a new user to a domain, a sub-domain, a MultiSite, or an Enterprise.
- Disable or delete a user from a MultiSite or Enterprise.

7.2.1.1 Add a New User

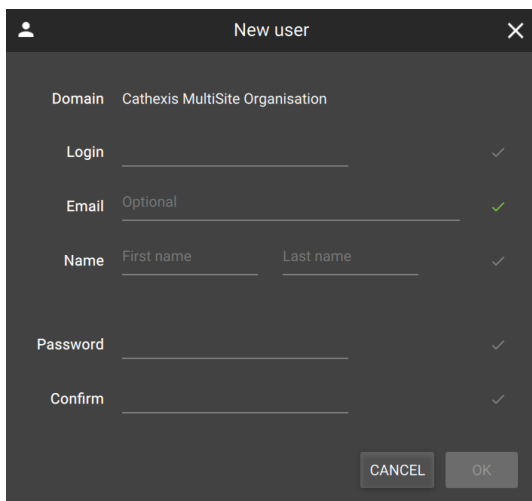


- Choose a domain / MultiSite / Enterprise.
- Click **Users** in the middle panel menu.



- From the Configuration panel, click the plus icon to add a new user.

A new window will open.

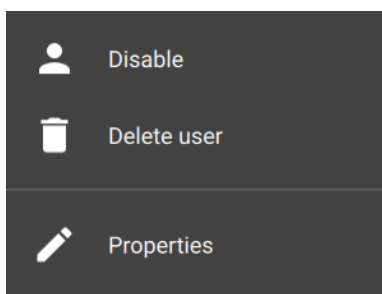


- Enter the credentials for the new user.
- Click OK.

7.2.1.2 Disable or Delete a User

	Login	Name	E-mail
	admin	Cathexis Admin	

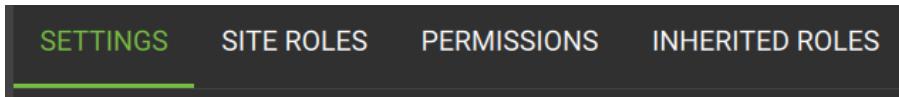
- Right-click on the user name. A list of options will appear.



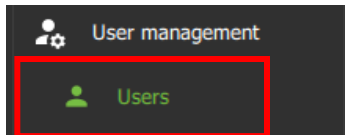
Disable: Click to disable the selected user.

Delete user: Click to delete the selected user.

7.2.2 Change User Details: Settings Tab



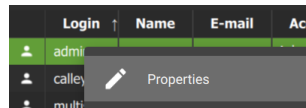
The name and surname of an existing individual user can be changed from the settings tab in the user management menu.



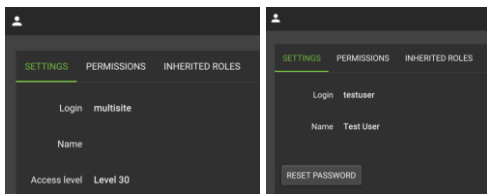
→ Click **Users** to view users in a list.

	Login	Name	E-mail	Access level
	adg			Administrator
	admin			Administrator
	apple			Level 4
	Audreya			Level 6
	bheko			Administrator
	Bob			Level 1

→ Double-click to **select a user** from the list.

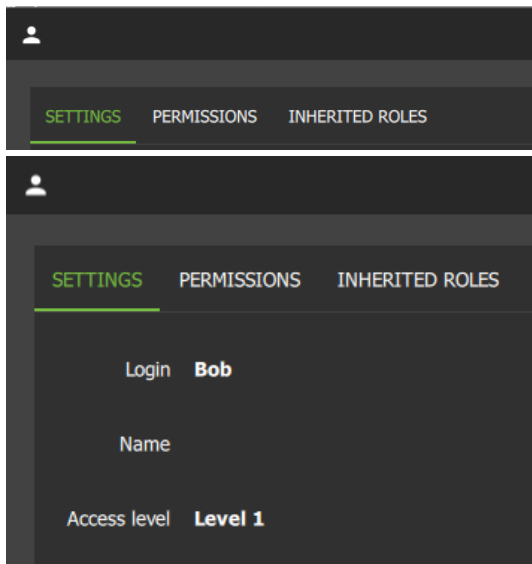


Alternatively, right-click the user name and select **Properties**.



A user settings dialogue box will open.

Note: The options displayed here will differ, depending on whether the connection is to a Site, MultiSite or Enterprise.

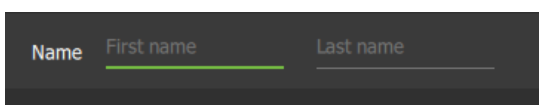


→ To change the name and password, click the **SETTINGS** tab.

→ **Hover** over the Name field to expose the Edit icon.



→ Click the **icon** to select.



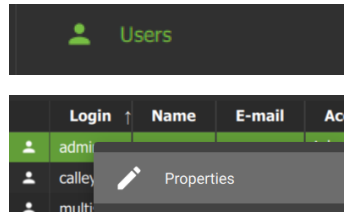
→ Type a **name** and **surname**.



→ Select the **save** icon.

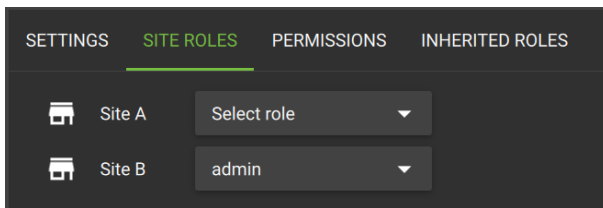
7.2.3 Site Roles (MultiSite Only)

The Site Roles for MultiSite users can be edited.



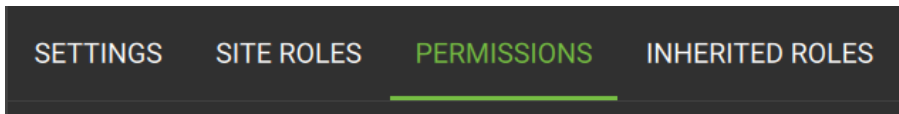
- Click on Users in the Menu panel.
- Double-click to select a user from the list.
- Alternatively, right-click the user name and select Properties.

The user settings dialogue box will open.



- Click on SITE ROLES.
- Edit the roles assigned to the user according to each site registered with the MultiSite.

7.2.4 Manage User Permissions

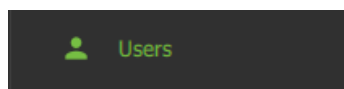


For a user to access resources (such as cameras, maps, inputs, outputs and databases), resources can be added to a user profile. Thereafter, permissions should be managed using the checkboxes.

Note: Alternatively, a user may gain access as a result of inheriting a Role, which grants access to a suite of functions associated with the role.

7.2.3.1 Manage Permissions: Add a Resource to a User

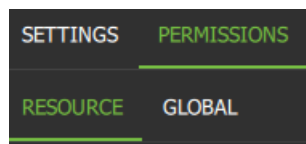
1. First, select the **resource type** to be added to a user.



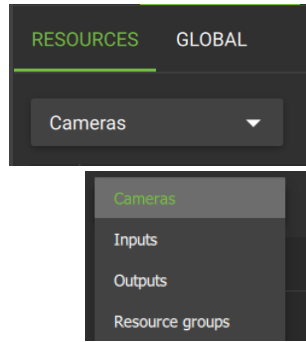
- Click **Users** on the folder tree.

	Login	Name	E-mail	Access level
	adg			Administrator
	admin			Administrator
	apple			Level 4

- **Select the user** from the list in the panel on the right-hand side by double-clicking.



- A new dialogue box will open.
- Click the **PERMISSIONS tab**.
- Then, click the **RESOURCE tab** underneath.

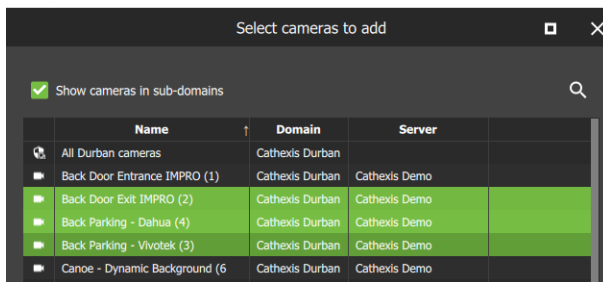


→ From the Resource tab, click the **drop-down menu**. (The drop-down menu usually shows “Cameras” and sits beneath the Resource tab.)

→ Choose the **type of resource** from the drop-down menu and click to select.

2. Then, add the resource.

→ From the PERMISSIONS view, click the **plus icon** to add a resource to the user.



→ **Click the items** (e.g. cameras) to select and add.

Multiple resources may be selected using Shift+click /Ctrl+click.

A permission group consisting of multiple items can also be added here if it has been created.

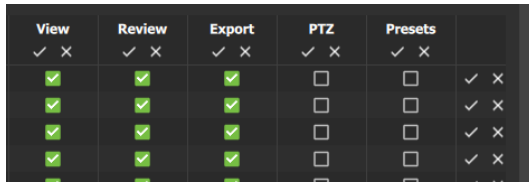
→ Click **OK**.

Once resources have been added, manage permissions/ access from the **PERMISSIONS** tab by using the **checkboxes**.

7.2.4.2 Manage Permissions: Modify Permissions for a User

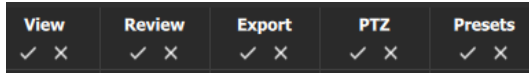
Permissions for various functions can be given to or removed from individual users. Permissions for resources already added to a user’s profile can be managed by using checkboxes. The following functions can be managed from the **PERMISSIONS** tab using the checkboxes:

Function	Description - The user has permission to:
View	View the selected resource. If it is a camera, permission is given to view the camera in live mode.
Review	Review and search recorded footage from the camera.
Export	Export segments of video footage to another location, either from the archive builder or from the video database.
PTZ	Operate the PTZ control using the overlay in the display or the PTZ menu.
Presets	Create or modify a preset on a PTZ camera.
Control	Control an output on a map.
Edit	Edit maps.
Manage views	Change and customise views in a metadatabase.
Manage reports	Create metadatabase reports.

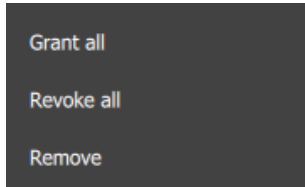


Permission options differ for each resource.

→ Click or unclick the **checkboxes** to add or remove permissions.



→ Click the tick or cross buttons along the top to check or uncheck **all items** in a column.

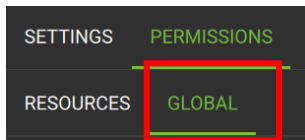


→ **Right-click** an item/resource for options to add or remove all permissions, or to delete the resource.

Note: Multiple users can be selected.

7.2.4.3 Manage Permissions: Global Tab

Global settings define user permissions for actions unrelated to individual resources, such as configuration.



→ Click the **GLOBAL** tab to manage global settings.

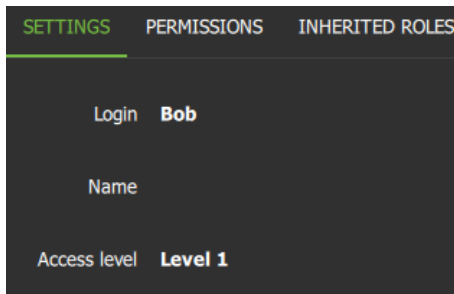
→ Then check or uncheck the boxes to modify global settings for a user.

7.2.4.4 View Permissions for a User

For some users, a summary of permissions/access can be viewed.

	Login	Name	E-mail	Access level
	adg			Administrator
	admin			Administrator
	apple			Level 4
	Audreya			Level 6
	bheko			Administrator
	Bob			Level 1

→ Double-click the user name to open the properties.



→ In the **SETTINGS** tab, double-click the field next to **Access level** e.g. Level 1.

Access level

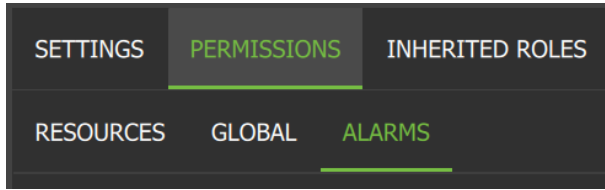
Cameras

	Name	Domain	Server	View	Review
	Highway - Virtual	Cathexis Durban	Cathexis Demo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Back Parking - Dahua (4)	Cathexis Durban	Cathexis Demo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Front Door - Exit (18)	Cathexis Durban	Cathexis Demo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

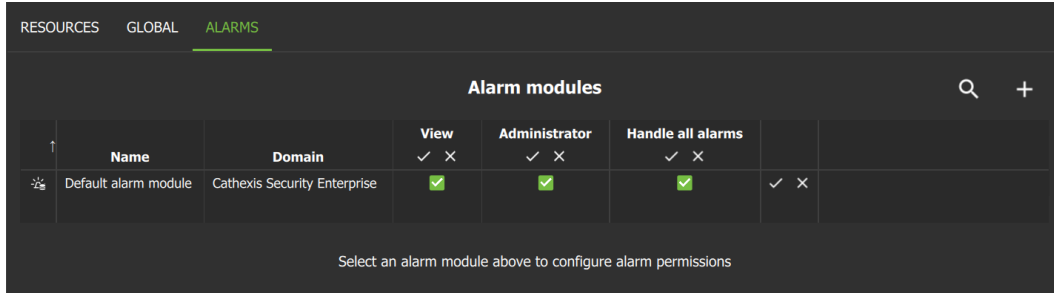
A view-only screen will open, showing the user's access permissions.

To edit permissions, use the **PERMISSIONS** tab.

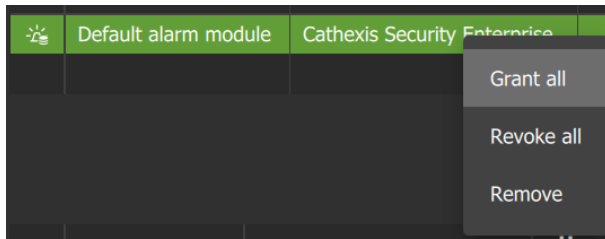
7.2.4.5 Manage Permissions: Alarm Tab (MultiSite and Enterprise)



→ Click the Alarms tab to set the alarm permissions for the selected user.

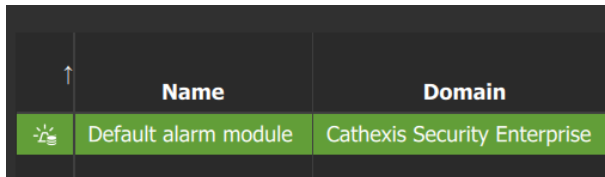


→ Click the plus icon to add an alarm manager.



→ Right-click an alarm module to view further options:

- Grant all (permissions)
- Revoke all (permissions)
- Remove alarm module



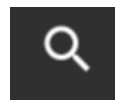
→ Click an alarm module to select it. The alarms for the selected module will display below.



→ Check or uncheck permissions as desired.



Click the plus icon to add an alarm.



Click the search icon to search alarms.

Note: On MultiSite, the alarm module is created automatically. On Enterprise (Linux) the alarm module is created by running a script.

8. Uninstall

To uninstall, simply follow the uninstallation process of the operating system on which Carbon is installed.

9. Conclusion

Note: This is a brief guide to getting started with the Carbon UI client software (for MultiSite and Enterprise connections).

For full instructions on setting up Carbon, consult the **Carbon Manual**. For operators using Carbon (once an administrator has set up Carbon), consult the **Carbon Operator's Guide**.

For more information on CathexisVision, consult the **CathexisVision Setup Manual**.

Manuals and technical documents can be found on the Cathexis website: <http://cathexisvideo.com/>

- | |
|--|
| • Carbon Suite 5 Release Notes |
| • Carbon 5 White Paper |
| • Carbon 5 Operator's Guide |
| • Carbon 5 Manual |
| • Carbon 5 Quick Start Guide (Site) |
| • Carbon 5 Quick Start Guide (MultiSite and Enterprise) |

- | |
|---|
| • CathexisVision MultiSite 5 Installation Guide |
| • CathexisVision Enterprise 5 Installation Guide |

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|--|
| • CathexisVision Mobile 5 App-note |
| • CathexisVision Mobile 5 Quick Guide |
| • CathexisVision Mobile 5 White Paper |

- | |
|---|
| • CathexisVision Setup Manual |
| • CathexisVision Operator's Manual |
| • CathexisVision Server Software Quick Start Guide |
| • CathexisVision Client Software Quick Start Guide |

For support, contact support@cathexisvideo.com