

CathexisVision Enterprise 5 Installation Guide





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1. Introduction

This document details the process of installing the 64-bit CathexisVision Enterprise 5 on the Ubuntu 20.04 LTS operating system.

CathexisVision Enterprise 5 is compatible with CathexisVision 2021.1 and later.

1.1 CathexisVision Enterprise

CathexisVision Enterprise is a premier solution for multi-site management. Enterprise installations can be accessed through the Carbon user interface. An Enterprise connection allows the user to view/review cameras and other resources from multiple sites, navigating with the following tabs:

- Monitoring
- Databases
- Archive player • Site monitors
- Maps
- Dashboard Hardware
- Configuration
- Feature search
- Monitors* •
- Alarms* •

All site resources can be viewed from an Enterprise installation.

•

* Alarms and the Enterprise Video Wall are supported in Enterprise 5.1 and later.

1.2 Installation Requirements

1.2.1 Hardware Requirements

- Intel i3 or equivalent processor
- 8GB memory
- 2TB (SSD recommended)

1.2.2 Supported Operating Systems

- Ubuntu 20.04.X LTS 64-bit Desktop
- Ubuntu 20.04.X LTS 64-bit Server

1.2.3 Software Requirements

Enterprise installation file



1.3 Ubuntu 20.04 Installation Notes

Note: For more information on installing the 64-bit CathexisVision software on the Ubuntu 20.04 LTS operating system, consult the *CathexisVision Installation Guide on Ubuntu 20.04*, available to download on the Cathexis website.

Perform a standard server or desktop Ubuntu 20.04 installation.

1.3.1 Run Critical OS Updates

After Ubuntu has been installed, perform the Ubuntu updates to install the latest Ubuntu packages, drivers and security updates.

Enter the following terminal commands:

sudo apt-get update

sudo apt-get upgrade

1.3.2 Optional Packages

It is recommended that the following software packages are installed.

1.3.2.1 FTP Client to Download Software from an FTP Server: FileZilla

sudo apt-get install filezilla

1.3.2.2 Time Synchronization to Local or Public Time Servers: NTP

sudo apt-get install ntp



1.4 Enterprise Licensing

Refer to the *CathexisVision 2023 Software Product Description and Licensing* document for more information on CathexisVision licensing requirements.

✓ Included

O License required

Package	Enterprise connection			
LITE	No			
CORE	 A camera channel on a CORE site requires a per-camera enabler license (CETC-1001) in order for it to be represented in Enterprise. *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. Features are presented automatically: A CORE site does not need feature licenses installed in order for its resources to be presented in the Enterprise Video Wall, Map and Alarms. See note below. 			
PROFESSIONAL	 A camera channel on a PROFESSIONAL site requires a per-camera enabler license (CETC-1001) in order for it to be represented in Enterprise. *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. Features are presented automatically: A PROFESSIONAL site does not need feature licenses installed in order for its resources to be presented in the Enterprise Video Wall, Map and Alarms. See note below. 			
PREMIUM	 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.





1.5 Documents

For information about connecting to Enterprise through the Carbon GUI, consult the following manuals, available on the Cathexis website (cathexisvideo.com):

- CathexisVision Carbon 5 Manual
- CathexisVision Carbon 5 White Paper

For information about connecting to Enterprise through CathexisVision Mobile, consult the following:

• CathexisVision Mobile 5 App-note

For information on setting up the CathexisVision VMS, consult the following:

- CathexisVision 2023 Setup Manual
- CathexisVision 2023 Operator's Manual
- CathexisVision 2023 Server Software QuickStart Guide
- CathexisVision 2023 Client Software QuickStart Guide



2. Installation Process

2.1 Enterprise Installation File

1. Contact the Cathexis Support Desk to request the Enterprise 5 installation file: <u>support@cathexisvideo.com</u>

2.2 Copy the Enterprise Installation File into the Admin User Folder

1. Upload/copy the CathexisVision Enterprise 5 installation file into the **/home/admin_user folder**.

Note: **admin_user** needs to be replaced with the admin user created during the installation. An FTP client (FileZilla) or an external USB drive can be used to copy the installation file onto the server.

- 2. Select the Files icon from Ubuntu taskbar, right-click on the installation file, and select Properties.
- 3. Select the Permissions tab and check Allow executing file as program.

$\langle \rangle$ \land Home \bullet				CathexisVision-	Enterprise-4.1.rc4-Ubu	ıntu_20_04 😣
🕚 Recent			Ţ	Basic	Permissions	Open With
★ Starred	Desktop	Documents	Downloads	Owner:	Me	
습 Home		B	>	Access:	Read and write	•
🔲 Desktop	Templates	Videos	CathexisVis	Group:	sudo 👻	
Documents			Enterpris	Access.	Read and write	
Downloads				Access.	Read and write	
🎵 Music				Others	Nees	
Fictures				Access:	None	· ·
⊟ Videos				Execute:	Allow executing fi	le as program
💼 Trash				Security context:	unknown	

4. From the terminal window, navigate to the **/home/admin_user** folder and run the installation. **Note**: The installation file name below is an example. The version number will vary depending on the version being installed.

cd /home/admin_user

sudo ./CathexisVision-Enterprise-5.1-Ubuntu_20_04-x86_64

5. A prompt for the administrator password will appear. The CathexisVision installation will start services and complete installing from the terminal.

It should install to /cathexis/programs/enterprise-cloud



2.3 Set Up the Organisation Database

1. Enable root access:

sudo su

2. Create /usr/entcloud symbolic link for easy access:

cd /usr/ # In -s /cathexis/programs/enterprise-cloud entcloud

3. Navigate to /usr/entcloud/assets/linux/database/

cd /usr/entcloud/assets/linux/database/

4. Run the organisation setup script:

sudo ./setup_organisation.sh orgid 'org name'

- orgid = lowercase alphanumeric organisation id with no spaces
- 'org name' = human-readable name of the organisation, which should be in quotation marks if it contains spaces e.g., ./setup_organisation.sh abcorg 'ABC Organisation'

Note: In the above script example, **orgid** and **'org name'** must be the required ID and name of the organisation respectively.

The table below indicates the restrictions on the orgid.

	Must/must not include
orgid	Should be alphanumeric
	Without any special characters
	• Spaces are <i>not</i> permitted
	 No _ (underscore character) must be used
entadmin@catent alarms/ datab entadmin@catent entadmin@catent	erprise:/usr/entcloud\$ cd assets/linux/ ase/ erprise:/usr/entcloud\$ cd assets/linux/database/ erprise:/usr/entcloud/assets/linux/database\$ sudo ./setup_organisation.sh abcorg

This configures the postgres cluster, creates the cloud database and adds an organisation.

- i. It expects the software to have been configured in the default location /cathexis/programs/enterprise-cloud.
- ii. It creates the database in /cathexis/database/enterprise.



2.4 Set Up Alarm Module

1. Create Alarm database:

cd /usr/entcloud/assets/linux/alarms
sudo ./setup_alarms.sh orgid

Note: Use the same orgid created in <u>Section 2.3</u>, step 4.



3. Next Steps

Note:

- The CathexisVision Carbon GUI is required for the configuration and viewing of CathexisVision Enterprise Server and sites.
- Instruction manuals for latest Carbon GUI and the CathexisVision Mobile app are available on the Cathexis website (<u>http://cathexisvideo.com/</u>).
- For more information on connecting to an Enterprise installation using Carbon, consult the *Carbon 5 Manual*.

3.1 Download and Install Carbon

Download and install CathexisVision Carbon (available on the Cathexis website <u>https://downloads.cathexisvideo.com/</u>).

3.2 Add an Enterprise Connection in Carbon

Follow the steps below to make the first connection to an Enterprise and to add CathexisVision sites.



 \rightarrow After opening Carbon for the first time, choose **Enterprise / MultiSite**.

This will open a configuration dialogue box.

3.2.1 Configure Enterprise Connection



- \rightarrow Enter the organisation **ID** that was configured in <u>2.3 Set</u> <u>Up the Organisation Database</u>.
- \rightarrow Enter the **IP address** of the Ubuntu server.
- \rightarrow Click **SAVE**.

Note: If returning to Carbon, the configuration screen will look different.



3.2.1.1 Enterprise Login

Return to the login screen.



3.2.2 Add a Site to Enterprise

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

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

3.2.2.1 Add Domain



 \rightarrow Click on the **root folder** in the folder tree.



 \rightarrow Click on New Domain to extend the tree structure.



3.2.2.2 Get Token

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



3.3 Connect a CathexisVision Site to Enterprise

Login Cogin Name Password OK Cancel	→ Log in to the Cathexis password.	SVision client or server interface with a username and
Site Tools Settings He	lp	ightarrow Navigate to General setup by following the
🐻 Open tab	🕨 📰 Cameras	path: Site / Open tab / Setup.
🍓 Close site's tabs	🗮 Databases	
🔑 Change password	🍪 Map -	\blacksquare \rightarrow Click on the Enterprise/MultiSite
Change login	🛞 Setup	icon on the menu on the left.



Enterprise/MultiSite	
Enterprise This site is not registered with an enterprise Register MultiSite	\rightarrow From the Enterprise panel, click Register .
This site is not registered with any MultiSite servers New	
CathexisVision ? ×	The administrator will provide the address .
	\rightarrow Enter the Enterprise address .
Enterprise address Token	\rightarrow Enter the token code.
	\rightarrow Click Go .
Go	
CathexisVision ? ×	A window will open.
Please confirm registration with Jason EntSite in the KZN domain	→ To confirm the site registration, click Confirm.
Abott Back 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/MultiSite	
2	Enterprise	
	This site is registered with Jason EntSite in the KZN domain at 192.168.33.187	Deregister Change address





3.4 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:



3.5 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.



- $\rightarrow~$ 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.

Domains		📕 CathexisSec DBN
۹ :	A Home	GENERAL SETTINGS LICENSES
📕 Cathexis Security Enterprise	Resource management	Package Premium Version 2023.2 RC11
CathexisSec DBN	Resources	



\rightarrow Select the Settings tab.

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



Connection policy Connect to 154
GENERAL SETTINGS
Connection policy Manual 👻
Address 154.117.154.82
Port forward using default port 👻
Address 154.117.154.82
Port forward using
custom port

 \rightarrow 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.

 \rightarrow Click the **save icon** to save changes.

3.5.1 Site Connection Types

Connection	Description – cases when connection type is used
Auto ^{Auto}	The Enterprise can determine the IP for the site by looking at the source address of the connection. Site \rightarrow provides IP to \rightarrow Enterprise (Carbon can get this IP)
Manual (port forwarding – default port) Manual	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 enable port forwarding and use the default port. Site \rightarrow Firewall \rightarrow different IP to site \rightarrow Manual port forwarding with default port if configured on firewall (30011 to 30011 on site)
Manual (port forwarding – custom port) Manual	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 enable port forwarding and specify the port in the firewall which is being forwarded. Site \rightarrow Firewall \rightarrow different IP and incoming port for site \rightarrow Manual port forwarding with custom port (custom port to 30011 on internal site)



4. Conclusion

Please note that this document was designed to deal with the installation of CathexisVision Enterprise 5.

For information about connecting to Enterprise through the Carbon GUI, consult the following manual, available on the Cathexis website: *CathexisVision Carbon 5 Manual*.

For further information about the CathexisVision software, consult the *CathexisVision Setup Manual*, available on the Cathexis website: <u>https://downloads.cathexisvideo.com/</u>.

For support, please contact support@cathexisvideo.com