Setup Tab: General Site Setup

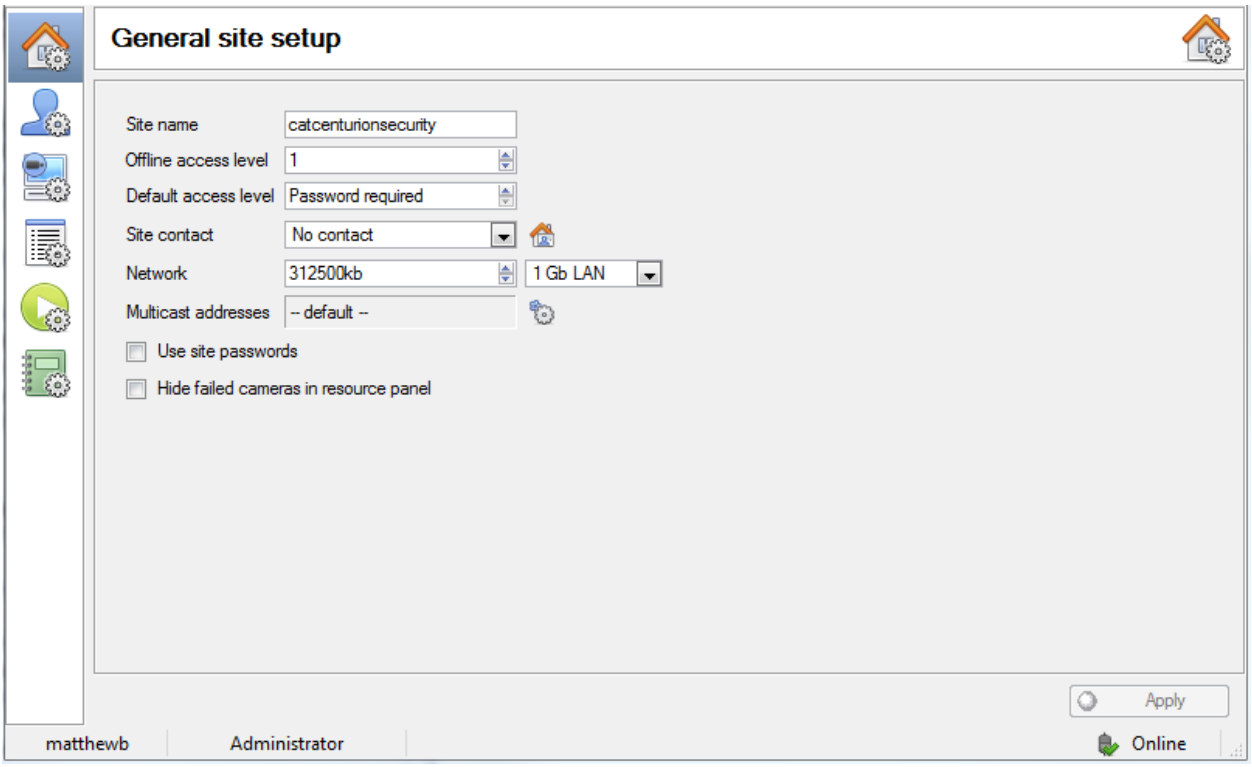
Contents[1]

1 Introduction 2
2 General Site Setup 4
a. A note on Multicast 5

[1] 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

All server setups in the CathexisVision 2014 software are centralised under the **Setup Tab**. Which is accessed via Site **—> Open Tab —> Setup**. Within the setup tab you have a list of setup option icons on the left, and the setup panel on the right, of whichever icon you have selected. In the image below the icon surrounded by blue (General Setup) has been selected, and all related settings are visible in the panel on the right.



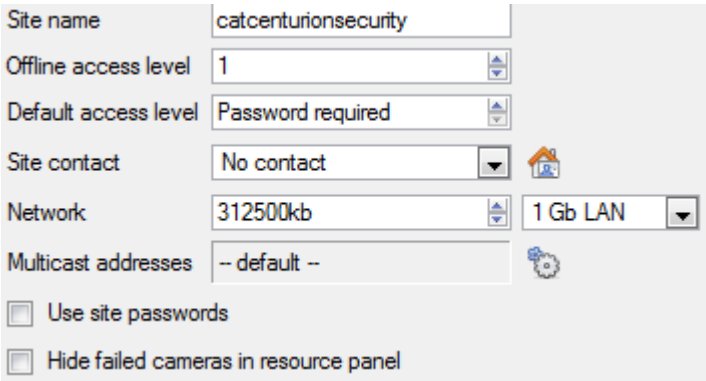
	General Site Setup will contain information that is general to the entire site. Such as the Network Speed, default access level, and site contact
	Users is where users are created and maintained. This includes Logging Level, Remote Access, etc. and can be done on a server by server basis, or be controlled as a site.
	Configure Servers. This is where you make changes to the individual units that comprise the site. Anything that happens on a unit via CathexisVision can be changed here, from any access point on the site. Since sites are made up of individual units, which have their own resources, this is a very important section and the bulk of Site editions will happen here.

	Resources Panel. Here you control which resources are visible to operators, in the resources panel that occupies the right hand side of the Cameras Tab. You can organise resources into folders, and repeat resources across folders. The following are all set on a unit by unit basis. Cameras Algorithms Databases Schedules I/O devices Scheduled recordings Scheduled archives Events Monitors Access rights Technical alarms Virtual inputs Keyboards Integration devices Advanced Outputs Inputs
	Site Actions are actions that apply to the site as a whole. Events, and Event Actions, relate resources on individual units. Site Actions are actions that can be applied on any unit on the site.
	Reports. CathexisVision can draw complex reports on the state of the hardware and software resources of the site. These reports can be based on user created templates, and can be run on a schedule.

2 General Site Setup

This was called Global Resources in previous versions of the software. This is information retrieved from the site, and not from the unit that you are on. The site information will be stored on the unit called the site Master.

An exact copy of the site resource information gets stored, and updated, on each unit that forms part of the Site. This will help with fail over if the Master Unit goes down. Any unit that forms part of the Site can become a temporary Master by assigning a "Slave" Unit the same IP address as the failed Master. (Contact support for more details here.)



This is the name of your Site as a whole, held in the site database. **Note**: this is not the same as the site name given in your local systems site list.
Offline Access Level defines what someone who has connected to the site can see of the site in its OFFLINE state. Although this user cannot interact with the resources themselves, this defines what resources he/she can see in the Resource pane. Options are “No view”, and levels 1 to 30.
Default Access Level applies to what a person can see and do on a site in its online state. If you set it to *password required* then the user will have to enter a username and password, and the access level will be whatever level has been assigned to that user. **Note**: If you set the level to anything from 1- 30, when the site is opened it will default to this level without a password required. This also means that the session will not be logged as a specific user. So, if you want to have audit trails for every session, then set this to *password required*.
Site Contact is the default site contact. This is especially important for monitoring, where an external viewer needs to contact a local responsible person. To set a site contact click the icon. Then select an existing contact, or create a new one.
Network settings are those settings specific to your LAN
Multicast. This will define the multicast settings for the site as a whole, it is discussed in more depth below this table.
Site Passwords if checked will propagate all users on the Site Master Unit to all units on the site. This centralises control of users to the master unit. (**This is the recommended setting**) If left unchecked users will be defined on a unit by unit basis.

It is best to only enable this after you have setup all relevant users on the Master Unit, and don't have any users, that you need, stored on other units. This is because setting site passwords will **delete all users on non-Master** units and replace them with the user list on the Site Master computer.
Hide Failed Cameras in Resource Panel, will remove cameras that have failed from the Resources list, until they are running again.

a. A note on Multicast

CathexisVision has the ability to automatically assign multicast addresses to cameras. When you add a camera to a unit you may select to have multicast 'disabled', 'automatic', or 'enabled'.

The multicast settings that in General Site Setup define the parameters of the 'automatic' settings.

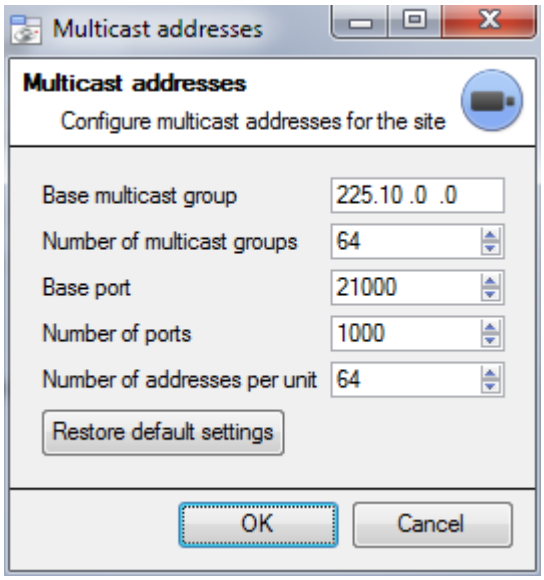
A **Multicast Address** consists of two components

1. The **multicast group**. This is the IP address that the camera will send multicast packets to.
2. The **Port Number**. The port number associated with the multicast group.

Users/units inform the network that they want to receive packets from this Address (this is called joining the group). The multicast switch/router will then forward packets sent to this Address to those units who join the group.

Address #	Multicast Group IP	Base Port
1	255.10.0.0	21000
2	255.10.0.0	21002

The address must be unique, not the individual components. For example 2 unique addresses could be represented as



Base Multicast Group:	This is the first IP address in the multicast range.
Number of Multicast Groups:	This is the number of group IP's available.
Base Port:	This is the first port in the range of ports that will be used for Multicast addresses.
Number of Ports:	This is the number of ports that will be used.
Number of Addresses Per Unit:	This is the number of unique Multicast Addresses that each individual unit may use/assign multicast sources. This is a relevant number because CathexisVision currently has a limit of 64 cameras per DVR/NVR unit.

Note:

1. In most cases the default settings will work. **You may want to change these settings if**:
   a. There are multiple sites on the same network (one would need to make sure that the ranges don't overlap at all, i.e. the same address:port pair may not exist in both the ranges).
   b. There are other devices which conflict with either the addresses or ports in the range.
2. Changing these settings will require every unit in the site to be restarted because the device multicast settings are reserved once they have been used.
3. The only person who should be changing such settings should be someone with the relevant networking expertise.