Bluecherry Documentation

Release 2.8

Curtis Hall

Jan 16, 2021

User Documentation

1	Insta	Ilation of Bluecherry server 1
	1.1	Requirements
	1.2	Installing Bluecherry from the Bluecherry repository
	1.3	Installing the server
2	Setu	o and configuration 5
	2.1	Logging in
	2.1	Navigating the web interface 5
	2.2	
	2.3	
	2.5	Automatic discovery of IP cameras 8
	2.6	Recording schedules
	2.7	Per-camera schedule
	2.8	Adding users
	2.9	Editing / viewing users
	2.10	Restrict cameras per user
	2.11	System logs
	2.12	Admin password reset procedure
3	Setu	o of Bluecherry client 19
	3.1	Installation
	3.2	Connecting to a server
	3.3	Adding your first server 22
	3.4	Adding cameras to the live view 24
	3.5	Layouts
	3.6	Using Pan / Tilt / Zoom enabled cameras
	3.7	6
	3.8	Searching events
4	Deve	loper documentation 35
	4.1	Live viewing
	4.2	Controlling PTZ cameras
	4.3	Trigger recordings

CHAPTER 1

Installation of Bluecherry server

Server Installation

1.1 Requirements

Version 3 (beta) supports Ubuntu LTS releases (Ubuntu 16.04 and Ubuntu 18.04), Debian 9 (Stretch) and Debian 10 (Buster). Support for CentOS has been removed.

1.2 Installing Bluecherry from the Bluecherry repository

Download instructions

Currently version 3 is in beta which means 'unstable'.

Copy and paste the commands to add our repository to Ubuntu 16.04 / Ubuntu 18.04 / Ubuntu 20.04 / Debian 9 / Debian 10.

sudo bash -c "\$(wget -O - https://dl.bluecherrydvr.com/scripts/install-unstable)":

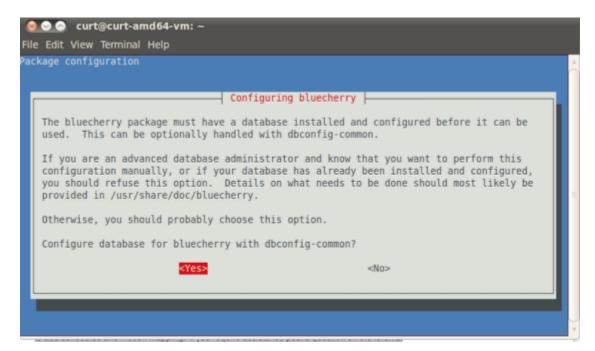
1.3 Installing the server

00		curt	∳curt-a	md64-v	m: ~	_
File	Edit Vi	iew 🛛	Terminal	Help		
	While admini If thi	not istra is fi	ative " ield is	ory, it root" u left b	Configuring mysql-server-5.1 is highly recommended that you set a password for the MySQL ser. lank, the password will not be changed. SQL "root" user:	
					<0k>	
						Ţ

The instructions below assume you have received the download instructions, or installed from our CD installer.

	<mark>⊗ ⊙ ⊘ curt@curt-amd64-vm:</mark> ~ ile Edit View Terminal Help				
Pa	ckage configuration	1			
	Configuring bluecherry				
	The bluecherry package must have a database installed and configured before it can be used. This can be optionally handled with dbconfig-common.				
	If you are an advanced database administrator and know that you want to perform this configuration manually, or if your database has already been installed and configured, you should refuse this option. Details on what needs to be done should most likely be provided in /usr/share/doc/bluecherry.				
	Otherwise, you should probably choose this option.				
	Configure database for bluecherry with dbconfig-common?				
	<yes> <no></no></yes>				

If you do not already have mysql-server installed you will be prompted to create a password for the 'root' MySQL account. While Ubuntu lists this as optional, it is recommended that you set a password.



You will now be asked to configure Bluecherry. You must hit Yes, or the installation process will fail.

0	0 0	curt	t@curt-a	md64-vm	~						l
File	Edit	View	Terminal	Help							
Pack	age	confi	guration								
	sh	ould	create i	ts MySQL	ord for the database and	iguring blued administrat: d user. rative user:	therry we account	with which	this packa	age	
				<0	k>		<canc< td=""><td>el></td><td></td><td></td><td></td></canc<>	el>			
_											

Enter the database administrative password that you set previously for the 'root' user.

6	00	cur	t@curt-a	md64-vm:				
Fil	e Edit	View	Terminal	Help				
Pa	:kage	confi	guration					Â
	blank MySQL	, a r	andom pa	ssword will		h the database server.	If left	
				<0k>		<cancel></cancel>		
								Ţ

Enter the password that you want to create for the bluecherry database. This can be the same password that you provided for the root MySQL account, but we recommend keeping the password unique. You will be asked to enter this password twice to verify the password matched.



At this point the bluecherry server will be installed. If you plan to install the client on the same system, then please follow the client installation guide.

CHAPTER 2

Setup and configuration

2.1 Logging in

Connect to the server with a web browser

By default the server runs on a port 7001, and requires SSL. You can access the server using https://hostname:7001

2.2 Navigating the web interface

← → C ▲ Not secure https://192.168.32.151:7001/login
Your connection is not private
Attackers might be trying to steal your information from 192.168.32.151 (for example,
passwords, messages, or credit cards). <u>Learn more</u> NET:ERR_CERT_AUTHORITY_INVALID
Automatically send some system information and page content to Google to help detect dangerous apps and sites. <u>Privacy policy</u>
ADVANCED Back to safety

- 1. Live View Web based live view streaming
- 2. Playback Watch recorded media
- 3. Download remote client Links to www.bluecherrydvr.com/download for downloading the cross platform client
- 4. Documentation Link to online documentation
- 5. Announcements Recent updates and information
- General settings Change settings such as the name and location of the DVR, and outgoing SMTP email notifications
- 7. Storage Easily add and manage storage
- 8. Users Add and manage who has access to live view, recordings and individual cameras
- 9. Connected users See who is currently connected to your system
- 10. Devices Add and manage analog and IP cameras (Note: A Bluecherry hardware compression card is required for analog card support)
- 11. Global schedule Easily select which days and hours your system will record. Choose between motion detection, continuous recording and no recording
- 12. Email notifications Easily add email notifications rules based on time of day and selected cameras
- 13. Event statistics Get statistics about the the camera recording schedule
- 14. Database backup Create or restore a database backup
- 15. System Log Easily view Bluecherry logs (both web and Bluecherry logs)
- 16. License Keys Easily add license keys to expand your Bluecherry system
- 17. Server statistics This section shows current CPU, memory and how long the system has been running.
- 18. Profile link Here you can easily update your profile, reset your password, or simply logout

2.3 Adding / Managing network (IP) cameras

This section covers adding and managing analog cameras. A Bluecherry hardware compression card is required for use with analog cameras and our software.

Tip: It is recommended that you change the 'List Source' from 'Local' to 'Live' in General Settings -> Performance/connectivity. This will allow you to recieve the last list of manufacturers and model numbers.

Performance/connectivity	
Check for available updates requires server to have internet access	
List source	Local list Live (You need an active internet connection)
Disable IP camera connectivity check May improve web UI performance	
Disable Stats display in the web UI May improve web UI performance	

2.4 Manually adding network (IP) cameras

Select Devices from the menu

 Devices

 Total devices: 1

 Q. Discover IP Cameras

 Image: Ima

By default the 'IP Cameras' section is minimized.

Devices		
Total devices: 1		
	Q Discover IP Cameras	+ Add an IP Camera
i≡ <u>IP Cameras</u>		
■ dahau 0 ld: 1 Disable Settings -		
A There are no supported video capture cards detected on this system.		

Tip: Always make sure your IP cameras are set to a static IP. If the IP camera is setup with dynamic (DHCP) and the IP address changes Bluecherry will not be able to connect to the IP camera.

Devices -> Add an IP cameras

Add an IP Camera

A Is your IP camera not in the list? We maintain a larger list of MJPEG and RTSP pa your camera.	aths here. If you run into problems, please https://www.bluecherrydvr.com/chat/join us on Slack (https://www.bluecherrydvr.co	m/chat/) and we'll try to add support for
Please choose manufacturer	Please choose manufacturer	
Camera name		
Camera IP or Host		
Username		
Password		
advanced settings		
	✓ Add camera	

If you already know the RTSP path you can select 'Generic' and update the Camera name (used in Bluecherry to show events), Camera IP or host, Username, Password.

Video source stream should always be RTSP, only use MJPEG if you know for sure what you are doing. Path to RTSP. This should always have a forward slash (/) followed by the RTSP path for the model of your IP camera (example - /media/video). A quick Google search can usually provide you the RTSP path, or use the manufacturer list above to try to populate this for you. RTSP port. *Most* IP camera manufacturers, with the exception of ACTi and some Hikvision cameras, use the default port of 554. Transport. Usually this is TCP, some manufacturers like ACTi use RTSP over UDP. ONVIF port. Defaults to port 80, currently not used by Bluecherry and added for future releases.

Once this you've completed this section click Add camera then test your configuration in the Bluecherry client or Bluecherry web interface. Optionally you can look at /var/log/bluecherry.log to see if the IP camera was successfully connected to by Bluecherry.

2.5 Automatic discovery of IP cameras

Select Devices from the menu

Devices	
Total devices: 1	Q. Discover IP Cameras + Add an IP Camera
i≡ <u>IP Cameras</u>	
A There are no supported video capture cards detected on this system.	

By default the 'IP Cameras' section is minimized.

Devices

Total devices: 1		
	Q Discover IP Cameras	+ Add an IP Camera
I≡ <u>IP Cameras</u>		
■ dahau 0 ld: 1 Disable Settings -		
A There are no supported video capture cards detected on this system.		

Warning: Currently this is still in development and may not work as expected and can take up to two minutes to run.

Devices -> Discover IP Cameras -> Find cameras

Add an IP Camera

▲ Is your IP camera not in the list? We maintain a larger list of MJPEG and RTSP paths here. If you run into problems, please https://www.bluecherrydvr.com/chat/join us on Slack (https://www.bluecherrydvr.com/chat/) and we'll try to add support for your camera.							
Please choose manufacturer	Please choose manufacturer						
Camera name							
Camera IP or Host							
Username							
Password							
advanced settings							
	✓ Add camera						

A list of the IP addresses and model numbers (if available) will be listed of any device that Bluecherry can autodetect. If your IP camera is NOT in this list then follow the Manually adding network (IP) cameras section.

Discover IP Cameras

192.168.86.125 192.168.86.133 192.168.86.132 192.168.86.127 192.168.86.101	✓ 192.168.86.200	HIKVISION DS-2CD2742FWD-IZS
192.168.86.133 192.168.86.132 192.168.86.127 192.168.86.101	0 192.168.86.143	
192.168.86.132 192.168.86.127 192.168.86.101	0 192.168.86.125	
192.168.86.132 192.168.86.127 192.168.86.101 192.168.86.29	9192.168.86.133	
92.168.86.101	9192.168.86.132	
	9192.168.86.127	
0 192.168.86.29	9192.168.86.101	
	992.168.86.29	

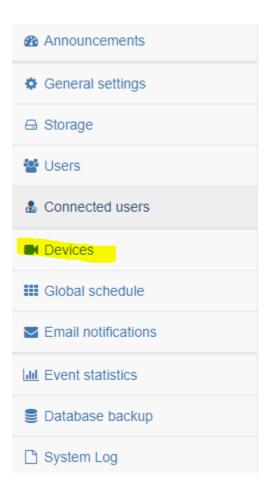
Click on the checkbox next to the camera you wish to add then click 'Add camera'

Discover IP Cameras

☑ 192.168.86.200	HIKVISION DS-2CD2742FWD-IZS	Admin	admin	

Complete the login and password for the camera then click 'Add selected camera'

Once this you've completed this section click Add camera then test your configuration in the Bluecherry client or Bluecherry web interface. Optionally you can look at /var/log/bluecherry.log to see if the IP camera was successfully connected to by Bluecherry.



2.6 Recording schedules

We support two types of schedules. The first is a global schedule and the second is a per-camera schedule. Both are covered below



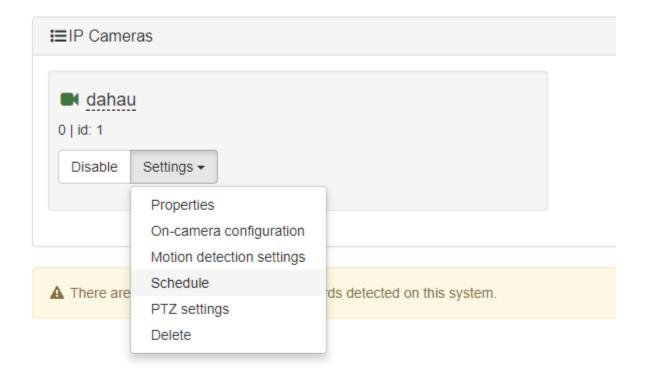
Global schedule

Device recording schedule

																						🗸 Save	e chan
e these selectors to fill in the	e schedule belo	ow																					
Off			Contin	uous				Motion															
ill All																							
III AII																							
ill All	0	1	2	3	4	5	6	7	8	9 10	11	12	13	14	15	16	17	18	19	20	21	22	23
II All Sunday	0	1	2	3	4	5	6	7	8	9 10	11	12	13	14	15	16	17	18	19	20	21	22	2
	0	1	2	3	4	5	6	7	8	9 10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday	0	1	2	3	4	5	6	7	8	9 10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday Monday	0	1	2	3	4	5	6	7	8	9 10	11	12	13	14	15	16	17	18	19	20	21	22	2:
Sunday Monday Tuesday	0	1	2	3	4	5	6	7	8	9 10	11	12	13	14	15	16	17	18	19	20	21	22	23
Monday Tuesday Wednesday	0	1	2	3	4	5	6	7	8	9 10	11	12	13	14	15	16	17	18	19	20	21	22	23

Select 'Motion' and then select all the grid locations (Assuming that you want motion detection 24×7×7).

2.7 Per-camera schedule



Under the Devices tab, select 'Schedule' under each camera that you want to enable a camera specific scheduled recording.

Device recording schedule



Select the checkbox for 'Use device-specific schedule for this camera' and select the type of recording schedule you want and click 'Save changes'

2.8 Adding users

DVR Users

Users currently registered in the DVR system.				
				+ Create New User
Full Name	Login	Email	Status	
Bluecherry Admin	Admin		Admin	×

Select 'Create New User' to add a new user to the DVR system

		✓ Save changes
Name usor's full name	Create new user	
Login Iogin		
Password password		
Emails for email notifications		
Phone	Add email	
phone # Admin access		
administrative priveleges		
Web access viewer web access		
Remote access remote client access		
Archived video allow access to previous events		
User notes visible only to admin		

Complete the form with the user specific information. It's usually recommended to have two administrator accounts, in case one user is delete or the password is forgotten.

General settings Storage Users Connected users Devices Global schedule Email notifications

2.9 Editing / viewing users

DVR Users				
Users currently registered in the DVR system.				
				+ Create New User
Full Name	Login	Email	Status	
Bluecherry Admin	Admin		Admin	×

Click on user's Full Name. Note: To prevent you from accidently removing yourself it is not possible for you to remove the account you are logged in as.

DVR users / Bluecherry Admin		
X Delete user Edit access list		✓ Save changes
Name user's full name	Bluecherry Admin	
Login Iogin	Admin	
Password password		
Emails for email notifications		
Phone phone #	Add email	
	8	
Web access viewer web access	8	
Remote access remote client access	8	
Archived video allow access to previous events	2	
User notes visible only to admin		

You can the option to change any of the fields above, including the password. You can also add specific restrictions on what the user has access to. The notes section lets you add user specific notes.

2.10 Restrict cameras per user

Restricting access on a per-user basis

Full Name	Login	Email	Status	
Bluecherny Admin	Admin		Admin 🔹	•
Joe Blow	joeblow	aaa@asa.aaa	Viewer	•

From the 'Users' section click on any of the names in the list. For this example, we are going to pick on Joe Blow, who we do not trust.

User details: Joe Blow

DVR users / Joe Blow			
¥ Delete user ■ Edit access list			
Name user's fuil name	Joe Blow		
Login Iogin	joeblow		
Password password			
Emails for email notifications	aaa@asa.aaa		Add email
Click 'Edit access list'			
			≜ *
User camera access permissions			
			✓ Save changes
¥ Restrict all		✓ Allow all	
click on camera names to allow/restict access			
X dahau			

******By default Joe Blow has access to all cameras. We do not want him to have access to cameras, simply click on the camera name. This will change the color of the camera from green (full access) to red (no access). Joe Blow will not see the camera in the available video devices, or in the event / search area. Changes are applied instantly. ******

2.11 System logs

**Select 'System Log' from the left menu bar ** .. image:: img/systemlog-select.png

This log shows everything that has been logged to /var/log/bluecherry.log and to /var/lib/bluecherry/wwwerror.log Note: These logs is randomly rotated, so it will likely not contain all of the logs since the server has started.

Down	nload debugging information
Jan 12 18:21:51 dvr bc-server[882]: I(): Started bc-server 2.8.3 (toolchain 5.4.0 20160609) v2.7.6-107-g2d34023 tags/v2.8.3	
Jan 12 18:22:04 dvr bc-server[882]:1(): SQL database connection opened	
Jan 12 18:22:04 dvr bc-server(882): I(): Found abandoned recording /varilib/bluecherry/recordings/2018/01/11/000001/20-04-18 mkv, queued for length update	
Jan 12 18:22:04 dvr bc-server(882): (): started processing abandoned recordings	
Jan 12 18:22:04 dvr bc-server(882): (); Got machine (d'8QUU-C5HG' from DB	
Jan 12 18:22:05 dvr bc-server[882]: I(): devname: ens33	
Jan 12 18:22.05 dvr bc-server(882): (); machine_id: BQUU-C5HG	
Jan 12 18:22:05 dvr bc-server(882): I(): address: 00 0C 29 41 74 E6	
Jan 12 18:22:05 dvr bc-server[882]:1(): Licensed for 4 devices	
Jan 12 18:22:06 dvr bc-server[882]: I(): Updating length of 0 abandoned recordings	
Jan 12 18:22:08 dvr bc-server(882): (); finished processing abandoned recordings	
Jan 12 18:22:16 dvr bc-server(882): E(1/dahau): Failed to open stream. Error: -110 (Connection timed out)	
Jan 12 18:22:16 dvr bc-server[882]: E(1/dahau): Error starting device stream:	
Ian 10 18-00-01 dur he senser/RR01-10: I Indation landh of 1 abandoned recordinos	
Bluecherry Server Log Bottom lines to load Bottom lines to load C Scroll to bottom C Scroll to bottom C Scroll to top	

2.12 Admin password reset procedure

In case you've lost or forgot Bluecherry server Admin password, you can change it to default in database.

mysql -u bluecherry -p bluecherry -e "update Users set password='b22dec1d6cfa580962f3a3796 salt='1234' where username='Admin';"

This resets the login to Admin and the password to bluecherry

CHAPTER $\mathbf{3}$

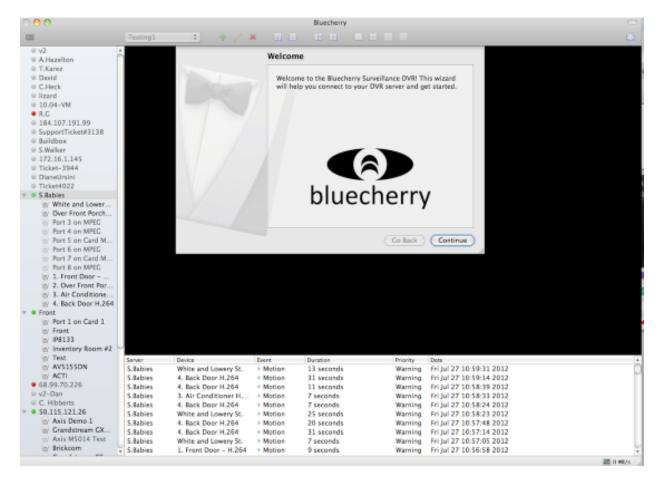
Setup of Bluecherry client

Client installation

3.1 Installation

3.2 Connecting to a server

The next three steps will allow you to easily connect to an existing Bluecherry installation.



Enter the hostname or IP address of the Bluecherry server. The default login and password for new installations is 'Admin' and 'bluecherry' (no quotes). You can optionally click 'Use default' to have this information automatically entered for you.

	Configure a	a DVR Server					
Deer	Setup a connection to your remote DVR server. You can connect to any number of servers, from anywhere in the world.						
	Hostname:	172.16.1.123	Port: 7001				
	Name:	172.16.1.123					
	Username:	Admin	<u>Use Default</u>				
	Password:	bluecherry	Save password				
		Connect automatic	ally at startup				
Y	🖌 Fo	gin successful! Click	Finish to continue.				
		Skip	Go Back Finish				

Finish by clicking 'close'



3.3 Adding your first server

The Bluecherry client can connect to multiple Bluecherry servers.

Bluecherry

Application Server Help

Add new server...

Options

Quit

Default

No
Camera

No
Camera

No
Camera

Inside the client click 'Add new server'

Enter your the name of the DVR, the hostname, and the login / password information for the Bluecherry version 2 system you are connecting to. The default port is 7001. You can add as many servers as you prefer to the client.

The default login for a new server is 'Admin' and 'bluecherry'.

If you are connecting remotely to a server behind a firewall or NAT make sure ports 7001 and 7002 are open.

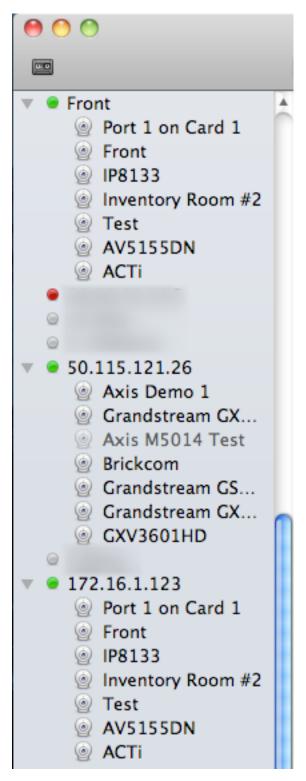
🔛 BluecherryClient	? ×
DVR Servers	
	I
DVR Server Hostn	ame Username
New Server	
Names Disselection design	
Name: Bluecherry demo Username: Admin	
Hostname: 192.168.1.136 7001 Password: bluecherry	
Add Server Delete	Apply

Once you select 'Apply' the client will automatically connect to the server. All cameras that are enabled and that you have access to will populate on the left side. All events will populate on the bottom part of the screen.

🖬 Bluecherry				_ 5 X
Application Server Help				
B . Bluecherry deno	Default 💌 📼 🔳 🖿			
- @ Front PT2 - @ Front Door				
- Pront Lobby				
- @ Halway				
- @ Shipping room				
- @ Inventory room #1	No			3
	Camera	Camera		
	- BluecherryClient	Carriera	? ×	010
	DVR Servers			
	Universities			
	DVR. Server	Hostname	Username	
	Bluecherry demo	192.160.1.	136 Admin	
			No	、 、
			Cam	era
	Name: Divecherry demo	Username: Admin		
	Hostname: 192.168.1.136	7001 Password:		
	Add Server Delete		Apply)
	Camera	Camera	Came	era
	Motion @ Hallway, Skecherry deno		-1	u Dec 2 10:00:05 2010 -
	Motion @ Front Door, Slutcherry deno			u Dec 2 09:49:30 2010
	Motion @ Hallway, Bluecherry deno		Th	u Dec 2 09:47:03 2010
	Motion @ Hallway, Bluecherry deno			u Dec 2 09:45:08 2010
Sauch Daniel	Motion @ Front Door, Sluecherry deno			u Dec 2 09:27:02 2010
Search Events	Motion @ Front Lobby, Bluecherry demo		Th	u Dec 2 09:13:06 2010 💌

3.4 Adding cameras to the live view

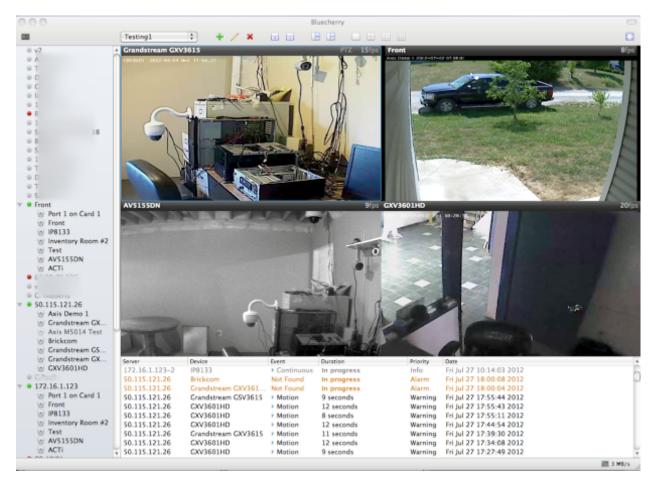
Once you have successfully connected to a Bluecherry server the list of available cameras will be displayed on the left.



Drag and drop cameras onto the live view area

00					Bluecherry		
	Testing1	•	+ / ×				
 Front Port 1 on Card 1 Front IP8133 Inventory Room #2 Test AV5155DN ACTi 68.99.70.226 v2-Dan C. Hibberts S0.115.121.26 Axis Demo 1 Grandstream GX Axis M5014 Test Brickcom Grandstream GX Front IP8133 Inventory Room #2 Test AV5155DN ACTi 88-UNIV F.Smith Demo-24 172.16.1.23 							
 Port 1 on Card 1 Front 							
P8133	Server	Device	Ð	vent	Duration	Priority	Date

Select any camera from the left and drag it into the layout.



You can repeat this process or any camera or DVR that you have listed on the left side. Note: It's possible to connect as many clients together as you need, and mix and match the videos in different layouts.

Audio

Cameras with audio stream available are marked with the blue speaker icon. You can turn on audio by selecting "Enable audio" in the right-click menu of the selected camera.



When audio is enabled on one camera, it is disabled on all others, only the single camera stream can be listened at the same time.

If your camera supports audio, but the speaker icon does not appear in the live view area, please check that "Enable audio" checkbox is checked in camera properties of the Bluecherry server administration interface and audio stream is enabled in camera's own settings.

3.5 Layouts

We support several different methods of viewing your cameras. First, it's possible to create as many layouts as you need. For example, you are a school resource officer who wants to only watch the hallways of your school that has two Bluecherry DVR systems installed. You can create a new layout



First, it's possible to create as many layouts as you need. For example, you are a school resource officer who wants to only watch the hallways of your school that has two Bluecherry DVR systems installed.

First drag and drop the cameras into the layout that you prefer. Then click 'New Layout' and create a name for the new layout and click ok.

🚾 Create camera layo	ut 🤶 🗙					
Enter a name for the nev	v camera layout:					
High School Hallway						
ОК	Cancel					

Pre-defined layouts

We provide four pre-defined layouts as seen in the box above. These are one channel, four channel, nine channel and sixteen channel layouts.



Default 🛟	+ -	III III		

3.6 Using Pan / Tilt / Zoom enabled cameras

A screen cast has been setup overviewing how to use the Pan / Tilt / Zoom options in Version 2.

https://www.youtu.be/-4YeH3UCUCA

3.7 Viewing previously recorded events

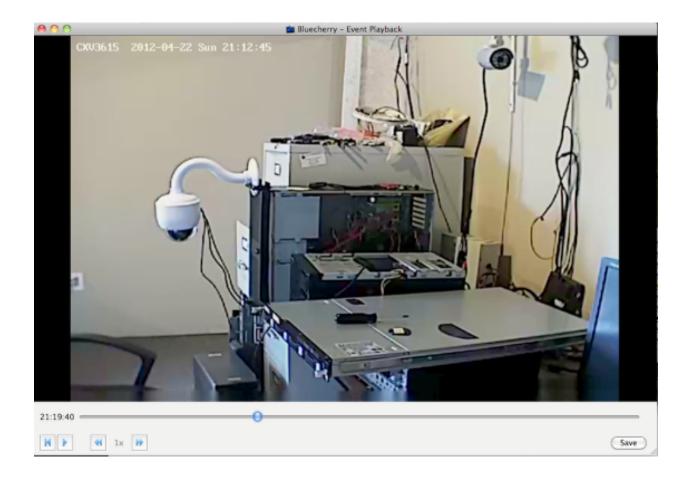
By default all events from all connected servers will display in this list. Cameras that are enabled but can not be accessed (camera offline, etc) will be highlighted in orange and in the Event column it will be listed as 'Not Found'

O Front Server IP8133 IP8133 172.16.1.123 IP8133 Inventory Room #2 172.16.1.23 ITest 172.16.1.123 172.16.1.123 INVentory Room #2 172.16.1.123 172.16.1.123 INVENTOR INVENTOR 172.16.1.123					a second second	A
IP8133 172.16.1.123 Inventory Room #2 172.16.1.123 Test 172.16.1.123 AV5155DN 172.16.1.123 ACTi 172.16.1.123 ACTi 172.16.1.123 BE-UNIV 172.16.1.123	Device	Event	Duration	Priority	Date	-
Inventory Room #2 172.16.1.123 Test 172.16.1.123 AVS155DN 172.16.1.23 ACTi 172.16.1.23 ArCam 172.16.1.23 BEUNIV 172.16.1.23	Inventory Room #2	Continuous	In progress	Info	Tue Aug 14 12:24:25 2012	
(b) Test 172.16.1.23 (b) AVS155DN 172.16.1.23 (c) AVS157DN 172.16.1.23 (c) ACTi 172.16.1.23	Port 1 on Card 1	Continuous	In progress	Info	Tue Aug 14 12:24:04 2012	
AVS155DN 172.16.1.123 ACTi 172.16.1.123 ArCam 172.16.1.123 ArCam 172.16.1.123 Be-UNIV 172.16.1.123	AirCam	Continuous	In progress	Info	Tue Aug 14 12:24:03 2012	
ACTI 172.16.1.123 AirCam 172.16.1.123 88-UNIV 172.16.1.123	ACTI	Continuous	In progress	Info	Tue Aug 14 12:24:02 2012	
AirCam 172.16.1.123 88-UNIV 172.16.1.123	IP8133	Continuous	In progress	Info	Tue Aug 14 12:23:57 2012	
88-UNIV 172.16.1.123	AV5155DN	Continuous	In progress	Info	Tue Aug 14 12:23:17 2012	
112.10.1.12.3	AV5155DN	Not Found	13 seconds	Alarm	Tue Aug 14 12:23:04 2012	
	AV5155DN	Continuous	55 seconds	Info	Tue Aug 14 12:22:09 2012	
PALLAL AND	Grandstream GXV3615	Continuous	In progress	Info	Tue Aug 14 21:19:40 2012	
Demo-24 7172.16.1.123	Front	Motion	13 seconds	Warning	Tue Aug 14 12:19:27 2012	

Hovering over an event will show detailed information about that event

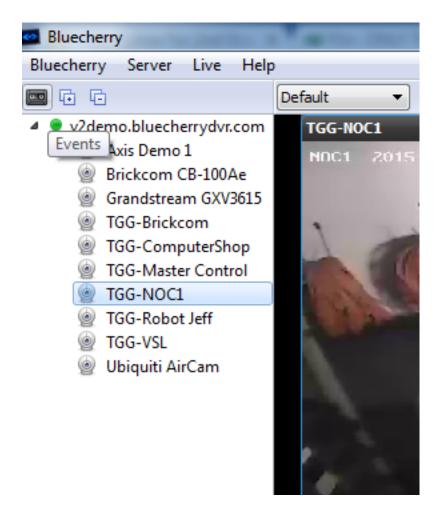
Server	Device	Event	Duration	Priority	Date	4
172.16.1.123	Inventory Room #2	Continuous	In progress	Info	Tue Aug 14 12:24:25 2012	
172.16.1.123	Port 1 on Card 1	Continuous	In progress	Info	Tue Aug 14 12:24:04 2012	
172.16.1.123	AirCam	Continuous	In progress	Info	Tue Aug 14 12:24:03 2012	
172.16.1.123	ACTI	Continuous	In progress	Info	Tue Aug 14 12:24:02 2012	
172.16.1.123	IP8133	Continuous	In progress	Info	Tue Aug 14 12:23:57 2012	
172.16.1.123	AV5155DN	Continuous	in progress	Info	Tue Aug 14 12:23:17 2012	
172.16.1.123	AV5155DN	Not Found	13 seconds	Alarm	Tue Aug 14 12:23:04 2012	
172.16.1.123	AV5155DN Not Found	(Alarm) JOUS	55 seconds	Info	Tue Aug 14 12:22:09 2012	
50.115.121.26	Grandstream GX AV5155DN	on 172.16.1.123 JOUS	In progress	Info	Tue Aug 14 21:19:40 2012	
172.16.1.123	Front Tue Aug 14	12:23:04 2012	13 seconds	Warning	Tue Aug 14 12:19:27 2012	Ť
						214-KB/S

Double clicking on the event will pull up the video. At this point you can play and fast forward / rewind the event.

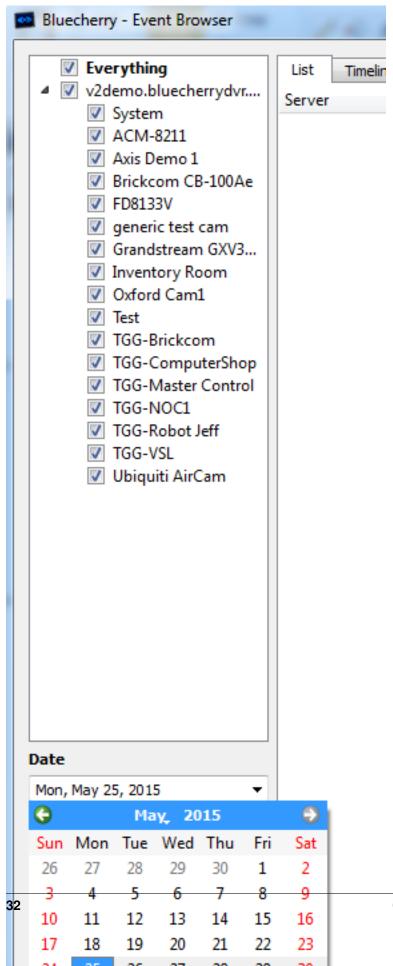


3.8 Searching events

By default the list of events under the main live view window are limited to just a few hours. To access all of the events select 'Events' in the top left corner of the UI.



From the screen below you can select the camera(s) you want to view events on, along with the date. You can also filter by event types (motion, continuous, alarm, etc)



Chapter 3. Setup of Bluecherry client

Once you select the date click **Load events**, this is a very important step, otherwise the server will not display any events.

CHAPTER 4

Developer documentation

API

Using the Bluecherry API to control or view a camera requires knowing the device ID. Currently this can be found in the XML file.

Note: The XML file will only generate the device IDs that the user has access to. Make sure you have access to all cameras, or that you are using an administrator login if you plan on controlling all cameras.

https://login:password@bluecherry-server/ajax/devices.php?XML=true&short=true

4.1 Live viewing

RTSP (TCP) connection

rtsp://login:password@bluecherry-server:7002/live/\$deviceid

Return Multi-part JPEG (MJPEG)

Once you obtain the device id, you can obtain a multi-part JPEG image from this URL:

https://login:password@bluecherry-server/media/mjpeg.php? id={camera_id}&multipart=true

Return single image (JPEG)

Obtain one image from the server: https://login:password@bluecherry-server/media/mjpeg.php?id={camera_id}

4.2 Controlling PTZ cameras

Below is a example URL for controlling a Pan / Tilt / Zoom camera through the Bluecherry API.

https://login:password@bluecherry-server/media/ptz.php?id={camera_id}&command={command}&par

Supported Pan / Tilt / Zoom commands:

query – display XML with camera information/PTZ capabilities and presets move – pan/tilt/zoom using parameters stop – stop movement save – save present rename – rename a preset go – go to specified preset clear – clear preset

Pan / Tilt / Zoom Variables:

 $preset_id - id of the preset preset_name -new preset name speed: pan/tilt speed pan_command:(l)eft /@ight tilt_command:(u)p /(d)own zoom_command:(t)ight /(w)ide duration:for how long to execute command; -1 for continuous$

4.3 Trigger recordings

Trigger recording:

```
https://login:password@bluecherry-server:7001/media/trigger.php?
camera_id={camera_id}&description=TEST
```

Camera must be set to Trigger ('T') in the recording schedule. Description will show in the logs that a trigger was recording with the description you inserted.