

# Video Surveillance VMS Interoperability Partners

---



## [AxxonSoft](#)

AxxonSoft is a leading software developer that combines IP-based physical security information management (PSIM), intelligent video analytics, video management software, facial recognition, POS and road traffic monitoring, and an enterprise-wide platform into fully integrated vertical and horizontal solutions. The company employs more than 250 highly-qualified specialists in 25 offices around the globe and has more than 2000 partner companies in security and video surveillance system installation and integration. AxxonSoft works closely with leading world manufacturers of equipment for security systems and is a Contributing Member of the ONVIF Forum. The flagship of AxxonSoft's product line, the multifunctional AxxonSoft Intellect Enterprise security management platform, is the foundation of SafeCity projects implemented in over 80 cities in various countries.

---



## [Bluecherry](#)

Bluecherry is a leader in the Linux surveillance market and develops a commercially supported Ubuntu application under the name 'Bluecherry'. The Bluecherry DVR software is a Linux-based surveillance application and is developed by its team of in-house developers. The Bluecherry application supports both IP and analog cameras, and allows for quick and easy setup of supported network cameras. Bluecherry supports live viewing from a web browser, and live viewing and playback of archived events from its cross platform application (Windows, Linux and OS X).

---



## [Codestuff](#)

Codestuff is the UK's leading brand associated with innovative IP video integration. Famous for inspirational and creative leadership, we deliver tailored video management solutions to the security industry, and offer our products to the OEM market place as well as producing our own Quorum brand.

---



## Digifort

Digifort is an IP camera surveillance software, developed by a team of highly-qualified professionals working to increase more and more the security of its clients, supplying surveillance tools of high reliability, performance and ease-of-use.

---



## i2V

i2V is a leading Indian Intelligent Integrated video security software with Video Management System, built-in video Analytics and options to integrate third-party devices and/or applications. From small enterprise CCTV security to large scale city surveillance & defence applications, i2V products and customized security solutions are suitable for all industrial, civilian and defence surveillance requirements.

---



## IP Cam Viewer

Launched in 2009, IP Cam Viewer is an award winning mobile application for remote access of network video surveillance products available for Android, iOS and Blackberry devices. Supporting numerous audio/video formats and network protocols, IP Cam Viewer has broad support for over 1100 different video products using MJPEG, MPEG4, H264, HTTP/HTTPS, RTSP, ONVIF, and custom binary protocols.

---



## IP Vision (iPhone app)

IP Vision allows you to see "what IP cameras see" from your iPhone or iPod touch. Be it an IP camera or a webcam (connected to a video server) in your home or office or a public camera anywhere in the world, you can watch the video or still images from anywhere provided you have a network connected iPhone/iPod. Visit [www.ttrix.com](http://www.ttrix.com) for more information.

---



### ISS (Intelligent Security Systems)

ISS, headquartered in Woodbridge, NJ and with offices located worldwide, is a leader in video management and analytic software, and provides a comprehensive line of digital security and surveillance video solutions. ISS is on the forefront of on-demand security, which allows for centralized command and control of an entire enterprise security network. Visit [www.isscctv.com](http://www.isscctv.com) for more information.

---



### Logiware

Logiware's go1984 was designed for professional and problem-free video surveillance and recording. The easy to use software with varied functions at an absolutely competitive price sets a new standard for the software industry.

---



### Netcamara

Netcamara, formed by a group of young professionals, is dedicated to exclusively providing monitoring solutions and are constantly developing the latest technologies to offer products of the highest level.

---



### NUUO

Founded in 2004, NUUO deploys advanced and comprehensive technologies to enhance the surveillance cameras to high standards demanded by our Intelligent Surveillance Solution. Combining NVR and Hybrid technologies with IVS detections guaranteed NUUO a successful and fast entry to the market. Visit [www.nuuo.com](http://www.nuuo.com) for more information.

---



### ONVIF

ONVIF is an open industry forum for the development of a global standard for the interface of IP-based physical security products. ONVIF is committed to the adoption of IP-based physical security in the security market. The ONVIF specification will ensure interoperability between IP-based physical security products regardless of manufacturer.

---



### Synology

Founded in April of 2000, Synology Inc. is a leader in next-generation Network Attached Storage (NAS) servers for the home and small to medium sized business markets. Specializing in both hardware and software for network attached storage devices; Synology products are feature-rich, easy-to-use, energy-efficient, reliable and affordable. All Synology product investments are enhanced with product warranties, free software upgrades and 24/7 online support. Visit [Synology](#) for more information.

---



### Seventh

Seventh is a Brazilian company operating in the areas of digital CCTV, intelligent automation and electronic security. Established in 2001, Seventh is recognized as an industry pioneer in automation control and Internet environments. Seventh's international recognition has been achieved through constant research and development with more comprehensive techniques. Seventh's D-Guard Monitoring System is a powerful image and automation (CMS / VMS) control, monitoring and management system. Unlimited devices such as, IP cameras, stand-alone DVR's, PC-based DVR's, video servers, automation modules, etc., can be integrated and connected to the D-Guard Center.

---



### [Tiny Cam Monitor \(Android app\)](#)

Tiny Cam Monitor is an Android application that allows users to monitor and control their private or public network of IP cameras, video encoders, DVRs, and webcams from a remote location without any data being sent through a third party. The application is offered in two versions: Free and Pro (paid) and can be downloaded from the Android Market, Amazon Appstore, and SlideME Market. Visit <http://tinycammonitor.com> for more.

---

## VIDEOINSIGHT

### [Video Insight](#)

Video Insight is a Houston, Texas based developer of enterprise class IP video surveillance solutions that are focused on multi-campus facilities. Video Insight's software uses maps and floor plans to navigate between cameras and locations and can be accessed from anywhere on the Internet using a variety of devices, including smart phones. Video Insight's comprehensive suite of products has been installed on more than 4,500 campuses. It supports more than 1,000 camera models from 60 major camera manufacturers.

---



### [Wavestore](#)

Wavestore's digital video recording systems simultaneously record and display high quality images from combinations of analogue, network (IP and megapixel), HD, HDcctv, 360 degree and infra-red cameras. Based on the Linux operating system, Wavestore's DVRs, NVRs and HVRs are rugged, reliable and straightforward to install, configure and operate. The Wavestore design is able to fulfil applications from small standalone systems up to large distributed server networks with thousands of cameras and detectors. The company has provided solutions for countless demanding projects, including ports and airports, transportation, councils, hospitals, hotels, schools, property, police and homeland security applications.

---



### [QNAP Systems, Inc](#)

QNAP Systems, Inc.,

"Quality Network Appliance Provider" aims to deliver comprehensive offerings of cutting edge network attached storage (NAS) and network video recorder (NVR) solutions featured with ease-of-use, robust operation, large storage capacity, and trustworthy reliability. QNAP integrates technologies and designs to bring forth quality products that effectively improve business efficiency on file sharing, virtualization applications, storage management and surveillance in the business environments, as well as enrich entertainment life for home users with the offering of a fun multimedia center experience.

---



### Matrix Security Solutions

An innovative, technology driven and customer focused organization; the company is committed to keep pace with the revolutions in the telecom and security industries. With around 30% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products like IP-PBX, Universal Gateways, VoIP Gateways and Terminals, GSM Gateways, Access Control and Time-Attendance Systems, Video Surveillance System and Fire Alarm Systems.

---



### Grandstream

Grandstream Video Management Software (VMS) is the central management system for Grandstream cameras and encoder/decoders. It provides a one-stop control for devices, video recording and alarm events. Use GSurf\_Pro to monitor, search and record up to 36 cameras simultaneously, manage videos locally or remotely via the controlled server with Client/Server architecture. Powerful features, yet easy to use design, make this a total solution package when combined with Grandstream IP surveillance products and 3<sup>rd</sup> party sensors.

---



### Exacq Technologies

**Exacq Technologies Inc.**, headquartered in Indianapolis, Indiana, is a leading developer of open architecture, Video Management System (VMS) solutions for security and surveillance applications. Our **exacqVision** VMS client-server solutions are scalable from a small single camera solution to large scale corporate or campus systems with thousands of cameras. Real-time and recorded video can be viewed, managed and configured from any location on the network.

---

# ONVIF/ GENERIC/RTSP Instructions

IP Address: IP Address of TELEPORT controller

User Name:

Password:

RTSP Port: 554

URL Example: rtsp://192.168.0.100:554/

Username and Password can be left empty if you NVR allows. Anonymous viewing is enabled by default on the TELEPORT controller.

If anonymous credentials is not supported set up a password for the built in user “viewer” in the TELEPORT controller. The password should be set according to the viewer password listed for your controller device in your user profile.

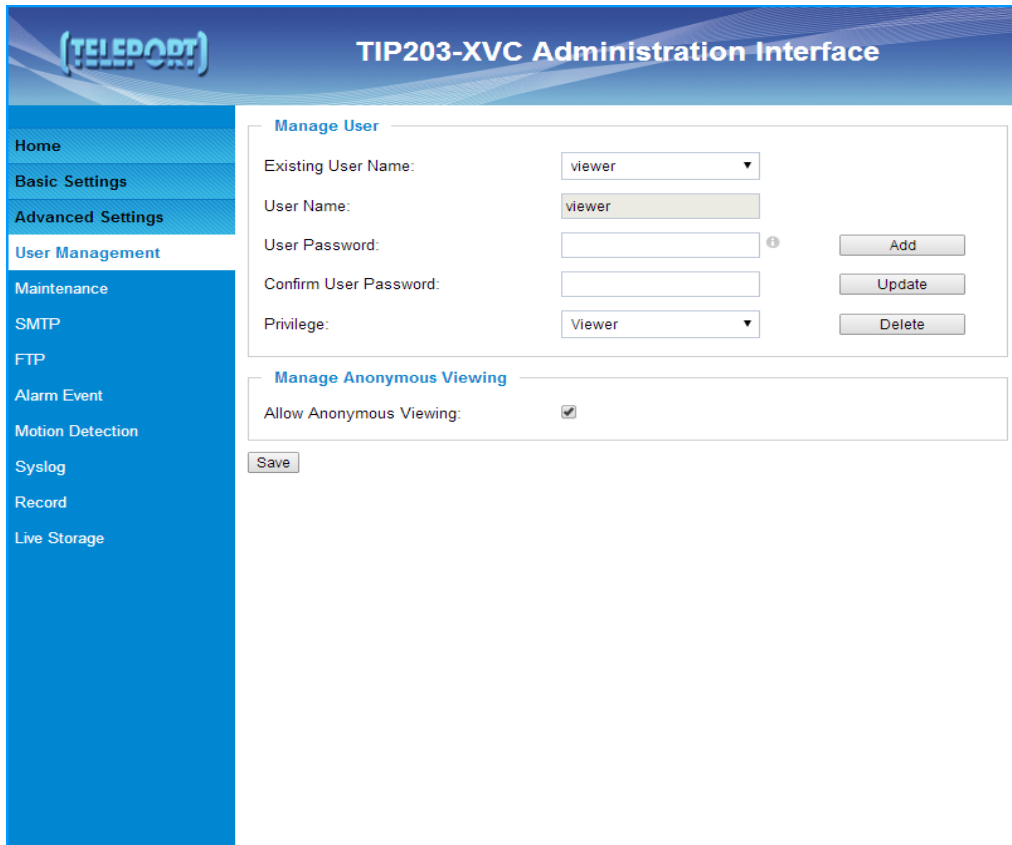


Figure 1: TELEPORT controller>Advanced Settings>User Management

The screenshot shows the TELEPORT user profile Administer Devices>Device Info page. The page header includes the TELEPORT logo and navigation links: Home, Buy New Plans, Plans, Administer, Profile, and Logout. The main content is a table with columns: Extension, Caller Name, Device Type, Device Info, FTP Info, Voice Mail, and Registration Info. The table lists extensions 1460 through 1468. A modal window titled 'SIP Settings' is open over extension 1468, showing the following details:

Extension	Caller Name	Device Type	Device Info	FTP Info	Voice Mail	Registration Info
1460	Steve's Old CU 1460 <1460>					
1461	Steve's Old CU 1461 <1461>					
1462	Steve's Old CU 1462 <1462>					
1463	Steve's Old CU 1463 <1463>					
1464	Steve's Old CU 1464 <1464>					
1465	Steve's Old CU 1465 <1465>					
1466	Steve's Old CU 1466 <1466>					
1467	Steve's Old CU 1467 <1467>					
1468	Steve's Old CU 1468 <1468>					

The SIP Settings modal window contains the following information:

- SIP Server: logenex.teleportvideo.com
- SIP User: 1460
- SIP Password: xiFyZc6Z
- Group Number: 14601468
- PIN Code: 7942
- Direct Camera Access:
  - Admin: 12664803
  - Viewer: 51661228

Figure 2: TELEPORT user profile Administer Devices>Device Info

## Video Settings

**Preferred Video Codec** – The TELEPORT supports the H.264 video codec.

**Resolution** – The higher the resolution is, the better the video quality is, and higher bandwidth is required.

Low ----- Æ High Resolution  
 QCIF CIF 2CIF D1

**Bit Rate** – The number of bits that are conveyed or processed per unit of time.

**Maximum Frame Rate** – The video frame rate is adjustable based on network conditions. *Increasing the frame rate will increase the amount of data significantly therefore consuming more bandwidth.* Video will be impaired due to packet loss when there is insufficient bandwidth.

**Bit Rate Control** – Variable Bit rate (VBR)

**Video Settings**

Preferred Video Codec:

Resolution:

Bit Rate:  kbps

Maximum Frame Rate:  fps

Bit Rate Control:  CBR  VBR

I-frame Interval:  Frame(1-100)



and Constant Bit Rate (CBR).

*Variable Bit Rate* - If VBR is selected, the codec varies the amount of output data per time segment. VBR produces a better quality-to-space ratio. The bits available are used to enable more flexibly and encode sound or video data more accurately, with fewer bits used in less demanding passages and more bits used in difficult-to-encode passages.

*Constant Bit Rate* - If CBR is selected, the codec's output data is constant regardless of the input data. The output bit rate is defined in "Bit rate". CBR is useful for streaming multimedia content on limited capacity channels. It is easier to calculate required bandwidth as well as the required storage space using CBR.

**Image Quality** – If 'Bit Rate Control' is set to "VBR", "Image quality" needs to be configured. The better the video quality is, the higher the bit rate will be.

**I-frame Interval** – While streaming video over a network, compression technologies are used to show the incremental difference between each frame. I-frames are used to help keep the video looking normal. When intervals are shorter, the video quality is higher but uses more bandwidth.

**NOTE:** The users might need to configure the **Primary Stream** and **Secondary Stream** properly. Sometimes, the user might like to watch the live video stream from the web GUI in low resolution mode while recording a copy via an NVR in high resolution due to the limitation of internet bandwidth. In this case, for example, primary stream can be configured to have better resolution, and then the users can use primary stream to record while watching secondary video streams.

**Primary Stream:** This is the available stream for NVR recording or on the active-x page on the web ui of the teleport controller.

**Secondary Stream:** This is the stream used for the mobile applications. DO NOT CHANGE the preferred video codec to MJPEG, this will cause the video stream to be un-viewable through mobile devices.