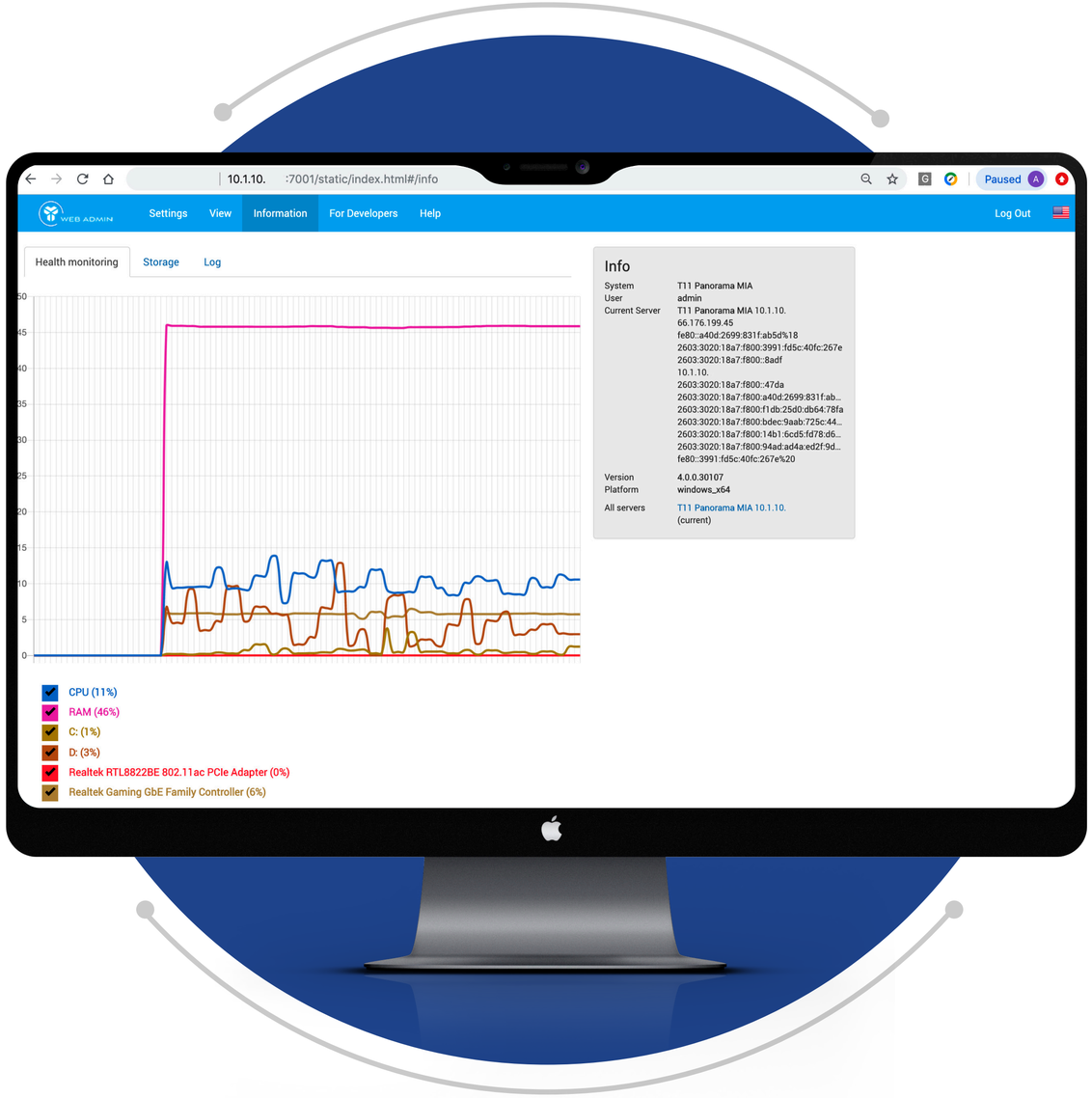

SERVER OVERVIEW

A lightweight media server application designed for discovering, adding, and managing system resources and their related metadata.

DISCOVER

- 99% of IP Cameras, Webcams
- I/O Devices
- Encoders
- RTSP / HTTP / UDP Streams
- SAMBA NAS Devices
- T11 Systems and Servers

MANAGE

- Device Configurations
- System Rules
- Failover / Redundancy
- Connections (HTTP, HTTPS)
- Archived Video
- Flexible Archive Backup

VIEW

- Server Health
- Live / Recorded Video
- System Configuration
- Log Files
- Audit Trail
- Storage Status

INTEGRATE

- HTTP Events & Actions
- Server API
- Metadata SDK
- Video Source SDK
- Storage SDK
- Server via Cloud API

SERVER KEY FEATURES

IP Camera Auto-Discovery
The T11 Panorama Server application automatically discovers 99% of IP cameras on the market today using a combination of ONVIF and native camera SDKs.

Manually Add Streams
Every T11 Panorama Server lets users add any RTSP, HTTP, or UDP stream from any device (IP camera, drone, etc) or 3rd party system (DVR, NVR, etc).

Server Hive Architecture
Every Server in an T11 Panorama System synchronizes user and configuration data in real-time ensuring no single point of failure in any size system.

Store Anywhere
The T11 Panorama Server allows users to capture and store video pretty much anywhere – local drives, SD cards, NAS devices, Veracity Coldstore, or even cloud locations.

Web Admin Interface
Every T11 Panorama Server has a built-in Web Admin Interface to view cameras, check up on things, connect to cloud, or download API and SDK documentation.

Event Rules Engine
Every T11 Panorama Server has an IFTT Events Rules Engine that lets operators configure simple or advanced rules based on System-generated or integrated 3rd party events.

Developer Tools
Integrate anything – literally anything – with a RESTful Server API and a full suite of SDKs for device and system integration.

Incredibly Lightweight
The T11 Panorama Server application is small, compact, powerful, and can run on anything from a Raspberry Pi to a Supercomputer.

Failover on Storage Failure
Automatic Camera Failover will now be activated when all storage on a Server has failed.

Encrypted Connections
Administrators can now require all connections in a System to utilize HTTPS with SSL/TLS encryption.

Encrypted Video
Administrators can now encrypt video between Servers and T11 Panorama Desktop / Mobile / Web clients.

H.265 Support for ONVIF Cameras
H.265 support has been extended to include all ONVIF-compliant devices.

Secure Export
Password protect exported video.

Notifications
Send any combination of notifications – built-in desktop notifications, email, or even via SMS or 3rd party systems using HTTP actions.

Metadata SDK
Enables seamless, semantic integrations between T11 Panorama VMS and 3rd party AI-powered video analytics like VisionLabs.

Dual RTSP / UDP HTTP Streams
Administrators can now create dual-streaming “cameras” using RTSP / HTTP / UDP to enable adaptive scaling in T11 Panorama clients.

Plugins
Plugins allow seamless integration between T11 Panorama VMS and 3rd party Systems, pulling in object data and associated bounding boxes, paths, and metadata tags.

SERVER SPECS

COMPATIBLE HARDWARE

RECOMMENDED BASED ON # OF STREAMS

STREAMS	RAM	NIC	CPU
Up to 8	1 GB	1 GB	Dual Core ARM
Up to 16	2 GB	1 GB	Dual Core Atom
Up to 32	4 GB	1 GB	Dual Core Celeron
Up to 64	8 GB	1 GB	Core i3
Up to 128	16 GB	1 GB	Core i3

*CPUs change fast and this spec sheet is fixed.

RECOMMENDED MAXIMUMS

 # OF RESOURCES PER SYSTEM: 10,000
 # OF STREAMS PER SERVER: 128
 # OF SERVERS IN A SERVER HIVE: 100
 # OF CLIENTS PER SYSTEM: UNLIMITED
 # OF USERS IN A SYSTEM: 1000

* Based on lab environments. Designing a system that exceeds the numbers above? Contact us for assistance.

SUPPORTED OPERATING SYSTEMS

WINDOWS

Windows 7
Windows 8
Windows 8.1
Windows 10
Windows Server 2008
Windows Server 2008 R2
Windows Server 2012
Windows Server 2012 R2
Windows 2016 v1607
Windows 10 Enterprise

UBUNTU LINUX

Ubuntu Linux 16.04 LTS
Ubuntu Linux 18.04 LTS

ARM DEVICES

Rasperry Pi
Jetson TX1, TX2, XAVIER AGX

* Contact us to learn more about our ARM support

UNIQUE CAPABILITIES

SERVER HIVE

Synchronization: Servers Synchronize System Data In Real Time
Failover: Automatic Camera Failover When Server Fails

ARCHIVE INTEGRITY

Integrity Check: Notification When Files Manual Modified
Backup: Real-time (Concurrent) Or Scheduled

NO PREREQUISITE SOFTWARE REQUIRED

Database: Sqlite + Proprietary Archive Index
Lightweight: ~75mb Install File

STORAGE

Lan / Wan: Hdd Ssd Nas (Samba)
Storage Sdk: Integrate New Storage Mediums (E.G. Ftp, Cloud)

SECURITY

User Rights: Ldap/active Directory Secure Password Recovery
Technologies: Https Open Ssl Salted Md5 Hash Tsl/ssl
Encryption: Secure Connections Encrypted Video

SUPPORTED MEDIA STREAMING

LIVE STREAM (AVAILABLE VIA SERVER API)

Video: H.265 H.264 MJPEG
Audio: MPGA
Protocols: RTSP WEBM HLS
Transcoding: Supported (For Web Client, Mobile, Api)

OTHER MEDIA

Videos: AVI MKV MP4 MOV TS M2TS MPEG MPG FLV WMV 3GP
Images: JPG PNG GIF BMP TIFF
Virtual Camera: Upload Footage From Offline Cameras (E.G. Wearable Cameras)