

Caton Relay Server

Transmission Gateway and Management



Simplified Deployment and Management of Complex Video

Caton Relay Server is a TS streams management platform that manages your input streams, and relays them seamlessly to multiple location and devices, while monitoring the status of the stream transport.

Supporting major industry protocols (including CTP and SRT) and with native support for CatonNet Video Platform, the Caton Relay Server is designed to handle complicated video routing, with built-in TS analysers and Monitoring & Alert features for real-time status of individual streams and network performance.

Key Features

- ✓ Protocol Translation Hub
- ✓ Format Independent
- ✓ Dedicated Stream Key
- ✓ Stream Recording
- ✓ Real-time stream transmission status
- ✓ Monitoring and Management
- ✓ Flexible deployment - On-premise, Cloud, Hosted

Caton Relay Server - Extensive Input and Output Combinations



* CTP and SRT compatibility are license-enabled

Convertors
Encoders
Mobile Devices
Cloud
Computers



Caton Relay Servers
On-premise | Cloud | Hosted

Convertors → ASI
Decoders / IRD → SDI / HDMI
Caton Player → Direct Viewing
Extension → Extension
Computer → Live Production
OTT / CDN → Online Distribution
Social Media → In-app Viewing

Key Benefits

Multi-level Security

User-defined stream key
Data encapsulation
AES-256 encryption
Designated whitelist receiver

Stream Recording

7 x 24 Stream Recording
Seamless file segmentation
Download recorded file via FTP

Stream Management

Build-in TS Analyser TR101209
Individual stream log
User-level operation

Dashboard

Overview of Server Status
Bandwidth Usages
Error Alert Trend



Caton Transport Protocols (CTP) for Superior Video Transmission

Caton Transport Protocols (CTP) comprise of our IP transmission technologies that assures stability, quality and security for video, media and other data transmissions. With over 30 in-built algorithms, CTP leverages machine and deep learning approaches that work to smooth and mitigate network challenges. This is coupled with our patented dynamic error corrections to recover from data loss.

Our customers use CTP to enable high quality, low latency live video to be distributed at scale over any IP network, making it the ideal technology for live streaming of high value content where quality, security and real connections matter. Beyond video, enterprises and service providers are leveraging CTP for fast file and data transfer, enjoying accelerated transmission speeds that are significantly faster than traditional solutions.



CatonNet Video Platform (CVP)

CatonNet Video Platform (CVP), powered by Caton Transport Protocols, provides broadcast grade media transmission services. CVP is designed as a highly available, low latency and secure service ensuring your video can be transmitted and received without compromising on quality, security or speed. With a point of presence in over 60 countries worldwide, some of the largest content creators, broadcasters, satellite operators and service providers are using this fully managed end-to-end service with up to 99.999% stream availability to securely deliver superior video to their customers locally, regionally and globally. All while enjoying significant cost savings compared to traditional network services.



Caton Relay Server

System Requirement

- Entry level - can serve 10 streams in & out (10Mbps per stream)
 - Intel-i3 Quad-core 3.0Ghz or above, 8GB Ram, storage min. 80G (for CRS system & logs), Gigabit ethernet, CentOS 7.9 (minimal ver.)
 - Med. Level - can serve up to 800Mb input & output streams
 - Intel Xeon-E3 Quad-core 2.0Ghz or above, 16GB Ram, storage min. 80G (for CRS system & logs), Gigabit ethernet, CentOS 7.9 (minimal ver.)
- Cloud - vCPU Quad-core, 8GB Ram, Storage: 40GB, OS: CentOS 7.9 and above (AWS EC2 Service: m4.xlarge)

Input

CTP

For live media delivery. Compatible with all CTP enabled devices

- Support for CTP PUSH from Caton encoders
- Support for CTP PULL from another Caton Relay Server

SRT

Secure Reliable Protocol, support caller and listener

UDP

Universal transport protocol. Compatible with third-party encoders

RTMP

- RTMP-push
- RTMP(S)-pull

Output

CTP

For live media delivery support, CTP PUSH to Caton's video processors and other Caton Relay Server, or any other 3rd party devices equipped with CTP

UDP

Universal transport protocol. Compatible with third-party encoders

RTMP

- RTMP(S)-Push to CDNs and Media Platforms
- RTMP-pull

HTTPS

HTTP link for viewing and connection

SRT

Secure Reliable Protocol, support listener and caller

HLS

HLS link for OTT connection

Control and Management

- Web-based user interface
- Graphical interface for real-time monitoring and statistics for input and output
- Real-time recording and support for FTP Download
- VLAN , Multi-Wan selection for input and output, sort and search in logging for export and download

Caton Technology is an industry leader in next-generation IP network transport solutions. Powered by technology and driven to innovate, we improve how businesses around the world and across multiple industries stream live media in the highest quality, distribute video and move data over any IP network faster and more securely—enabling new deployment possibilities while reducing costs. Headquartered in Singapore, with regional offices in Shanghai, Beijing, California, Hong Kong, Taipei and Tokyo, Caton Technology is poised to connect the world with high-quality real-time interactions between people, things and everywhere in between. The best connections are created with Caton. For more information, please visit www.catontechnology.com.

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Caton Network Management System | Transmission Management and Orchestration

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