



Haivision SRT Gateway is a highly flexible and scalable broadcast solution for secure routing of live video streams across different types of IP networks. By serving as a network bridge and converting between protocols, SRT Gateway facilitates streaming live video content to one or several destinations for broadcast production and distribution.

Network Bridging Complex video workflows can involve many live production stages across multiple locations and network types including LANs, WANs, MPLS, IP over satellite, and the internet. Haivision SRT Gateway performs stream routing and protocol conversion in real-time, across different networks, without affecting video quality.

Protocol Conversion Each network and edge point along a video stream’s path can require specific and differing transport protocols. Haivision SRT Gateway converts live video from one protocol to another in real-time. For instance, broadcast contribution streams can be converted on the fly from Transport Stream to SRT for backhaul across the internet or to UDP with multicast, for efficient LAN distribution. In supporting confidence monitoring or bi-directional live interviews, return feeds can be delivered with the most suitable protocol for both remote and in-studio viewing.

Point to Multipoint Streaming Distributing a live video source to multiple destinations, such as broadcast affiliates or syndication rights holders, can only be achieved by meeting the specific streaming requirements of each destination. Haivision SRT Gateway can replicate a single incoming stream for 24/7 broadcast distribution as multiple outgoing streams, each configured to a specific protocol, in unicast or multicast mode.

Secure and Highly Reliable Fully supporting the SRT open source streaming protocol, which was originally developed by Haivision, SRT Gateway can ingest, relay, and encrypt video streams with AES 128- or 256-bit keys for end to end stream protection. The Emmy Award winning SRT provides robust packet retransmission for recovering lost packets while minimizing bandwidth overhead and impact on latency. With Path Redundancy, Haivision SRT Gateway can route live content over more than one IP network path, further ensuring reliable stream delivery in the event of an interruption to one network link.

Firewall Traversal IP firewalls block external access to a network and prevent video streams from being delivered from one location to another. A Haivision SRT Gateway can be located anywhere outside of a network’s firewall for sharing content without breaching network security policies.

Flexible Deployment Video streaming routes are increasingly complex and may include both on-premise and cloud based infrastructure. Haivision SRT Gateway is available in different deployment options to facilitate your broadcast production and distribution workflows. Whether as dedicated server appliance, as a cloud instance, or as a virtual machine (VM), Haivision SRT Gateways can easily be deployed anywhere for all types of broadcast streaming applications.

FEATURES

Streaming Protocol Conversion

BENEFITS

Convert between live streaming protocols without impacting latency.

Network Bridging

Bridge between cloud platforms, Internet, MPLS, IP over Satellite, LAN, and WAN networks.

One Stream to Many

Replicate a source stream to multiple destinations for live content distribution.

Codec Agnostic

Ingest and distribute all types of live video content.

Firewall Traversal

Securely share live content across enterprise networks without breaching firewall policies.

HAIVISION SRT GATEWAY

The following core functionalities apply to all SRT Gateway products:

Platform:

Secure Linux-based OS (NIST 800-53 r.4)

Inputs:

- MPEG Transport Stream over UDP
- MPEG Transport Stream over RTP
- MPEG Transport Stream over RTP with FEC (SMPTE 2022-1)
- MPEG Transport Stream with RTP headers (passthrough)
- SRT Streams
- RTSP (non-HTTP)
- RTMP (from Server and from RTMP encoder)

Outputs:

- MPEG Transport Stream over UDP
- MPEG Transport Stream over RTP
- MPEG Transport Stream over RTP with FEC (SMPTE 2022-1)
- MPEG Transport Stream over SRT with RTP headers (passthrough)
- SRT Streams with ARQ, FEC, or both
- Encrypted HLS with configurable segment size

Networking:

- Unicast and Multicast (IGMPv3) Support
- Network Routing and Bonding
- Access Control – SRT Multiplexing over UDP with Stream ID
- Path Redundancy – SRT Streaming across multiple network paths in active-active or active-backup mode.
- SMPTE 2022-1 Pro-MPEG FEC Support
- 128/256-bit AES Encryption

Metadata Pass-Through:

- Closed Captioning (EIA-608 & EIA-708)
- KLV
- Time Code

Management:

- Web User Interface (HTTPS)
- Console UI
- REST API

SRT Tools (via GUI):

- Export 24h of SRT statistics data
- Track connected clients and individual statistics
- Limit number of SRT listener clients
- Configurable SRT Input Buffer

Software Version: 3.7

	SRT Gateway 10	SRT Gateway 20	SRT Gateway 50
Platform Form Factor	Small form factor appliance	Server (1RU)	Server (1RU)
Throughput	100 Mbps aggregate	200 Mbps aggregate	500 Mbps aggregate
Networking	2x GigE Base-T NIC	2x GigE Base-T NIC	2x GigE Base-T NIC 2x SFP+ (up to 10Gbps) Expansion Slots (Copper 1Gbps Module included)
Weight	1.8 lbs (0.816 kg)	26.89 lbs (12.2 kg)	43.87 lbs (19.9 kg)
Dimensions	35H x 200W x 150D (mm) (1.38"H X 7.87"W X 5.9" D)	(Without faceplate) 1RU: 42.4H x 434W x 394.3D (mm) 1.669"H x 17.086"W x 15.523"D	(Without faceplate) 1RU: 42.8H x 434W x 607D (mm) 1.685"H x 17.086"W x 23.897"D
Power	External Power Supply 90W	Single Power 250W	Dual Power 350W

Haivision SRT Gateway Product Portfolio & Ordering Information **

Haivision SRT Gateway System 10/20/50	S-SG-10 S-SG-20 S-SG-50	Stream up to 100, 200 or 500 Mbps aggregate output.
Haivision SRT Gateway VM 10/20/50	VM-SG-10 VM-SG-20 VM-SG-50	Stream up to 100, 200 or 500 Mbps aggregate output. VMWare Virtual Machine (no hardware included).
Haivision SRT Gateway Cloud License	MI-SG50-AZU-BYOL MI-SG50-AWS-BYOL MI-SG50-ALI-BYOL	500 Mbps license for deployment of SRT Gateway on Azure, AWS, or Alibaba cloud. 100 and 200 Mbps license for cloud deployment also available.
Haivision SRT Gateway Unlimited VM and Cloud License	VM-SG-UL MI-SG-UL-ALI-BYOL MI-SG-UL-AWS-BYOL MI-SG-UL-AZU-BYOL	Unlimited aggregate throughput license for deployment on VMWare Virtual Machine, Microsoft Azure, AWS, or Alibaba Cloud. Throughput may be restricted by the size of the VM resources.

** For complete pricing and ordering, contact us at sales@haivision.com or your certified Haivision reseller.