

RelayCaster for Amazon AWS

With RelayCaster, reliability and data rates of contributing and distributing live content can be greatly improved, and packet loss issues can be solved efficiently.

RelayCaster allows for replacing expensive satellite links or expensive contracts with CDN service providers.

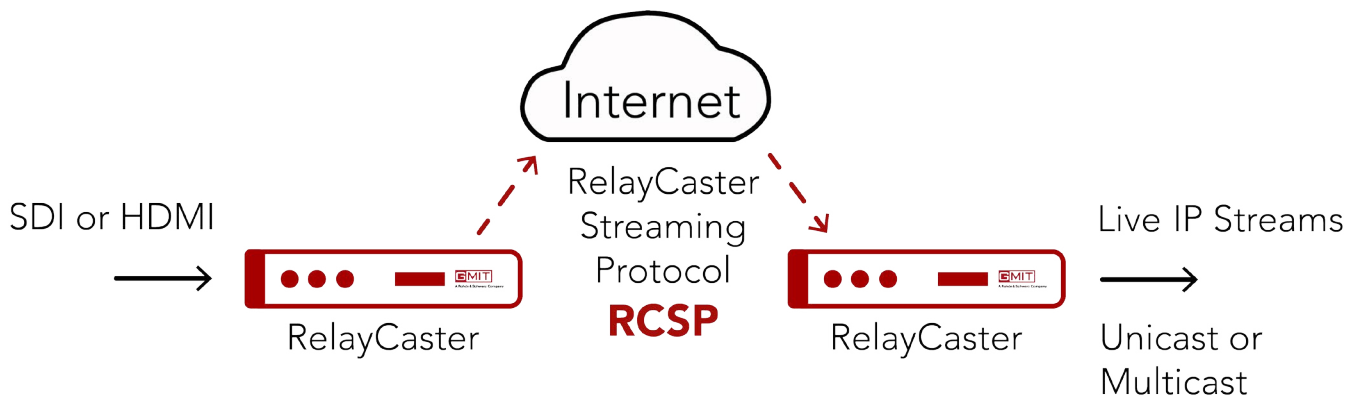
In contrast to these services, RelayCaster is not limited to certain regions or data centers. RelayCaster enables distribution of your content across any distance, to any place that is reachable by Internet infrastructure. With optional encryption your streams will be protected between all senders and receivers.

Being compatible with existing gateways, transcoders, conditional access systems, streaming servers, and set-top boxes, RelayCaster appliances can be seamlessly integrated into your existing infrastructure: Input and output streams of RelayCaster support standard compliant protocols.

RelayCaster for Amazon AWS enables easy installation on existing cloud instances.

Application Areas

- Optimized distribution and contribution of live content
- Improved reliability and higher bandwidths on long distance Internet links
- Fixes packet loss up to 50%
- Replacement for expensive satellite links and CDN contracts



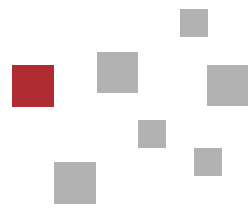
Using the RelayCaster Streaming Protocol (RCSP) as streaming protocol between two RelayCaster servers allows for the optimized transmission of live IP streams to remote company sites, data centers, or networks.

Compared to streaming with UDP or RTP, RCSP greatly reduces packet loss. Compared to content distribution with TCP or higher-level protocols, such as FTP or HTTP, GMIT's RCSP offers much higher bandwidths for transmission of live content over lossy long distance links.

This approach can be scaled. You can create your own Content Delivery Network (CDN) of

RelayCaster servers: Live IP streams from a central data center are re-distributed to various intermediate and terminating data centers that are spread around the world.

Over-The-Top (OTT) streaming, adaptive bitrate streaming (ABR), and RelayCaster work together nicely: In each data center, streams received by RelayCaster are forwarded to OTT streaming servers providing streams to end users' devices that are 'nearby' (in terms of Internet distance). To this end, RelayCaster helps 'pushing' streams close to end users.



IP Streaming

- 2x Ethernet interfaces supported
 - 1x Mgmt (Management and Streaming)
 - 1x GbE (Streaming only)
- MPEG Transport Stream (MPEG-TS)
 - MPEG-SPTS (Single Program Transport Stream)
 - MPEG-MPTS (Multi Program Transport Stream)
 - Support for common audio/video codecs
- Protocols
 - Unicast / Multicast / Broadcast
 - UDP
 - RTP over UDP
 - RelayCaster Streaming Protocol (RCSP)
- Output rate for receiving and sending
 - Unlimited number of streams
 - Unlimited bandwidth per stream
 - Performance depends on customer's Amazon AWS instance



Stream Protection

- Encryption and decryption with AES
- 128, 192 and 256 bits



Administration

- Responsive Web interface (http/https)
- ssh (if available on customer's installation)
- Free Software Developer Kit (SDK) for XML-RPC and PHP



Software

- Download for Linux operating system in Amazon AWS instance
- Ask for supported Linux distributions