

Case study

SRT Integration Test using **KILOVIEW D300 Decoder**

How to work around a slow Internet connection?

By using the Secure Reliable Transport (SRT) protocol, which is characterized by low latency and ensures fast file transmission. In this short integration test, we will verify that CamStreamer App and SRT work together very well.

Equipment


Hardware:	AXIS P1375 camera
	Advantech SmartStart router
	KILOVIEW D300 decoder
Software:	CamStreamer App



Process

We used AXIS P1375 camera connected to the public network via **LTE router Advantech SmartStart**. CamStreamer Cloud is installed on the camera for its [remote access feature](#) and **easy camera management**.

AXIS P1375 camera's SRT mode was set up as the **caller** (a client that will try to connect when initiated), as seen in CamStreamer App settings.

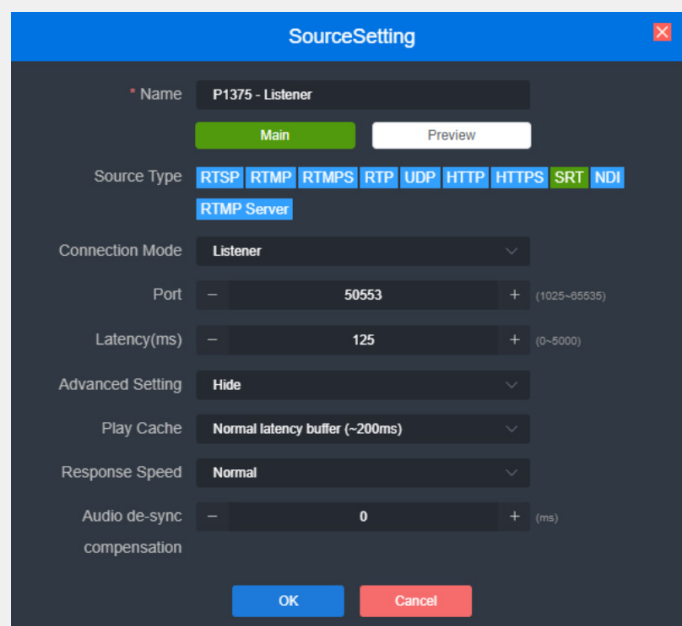
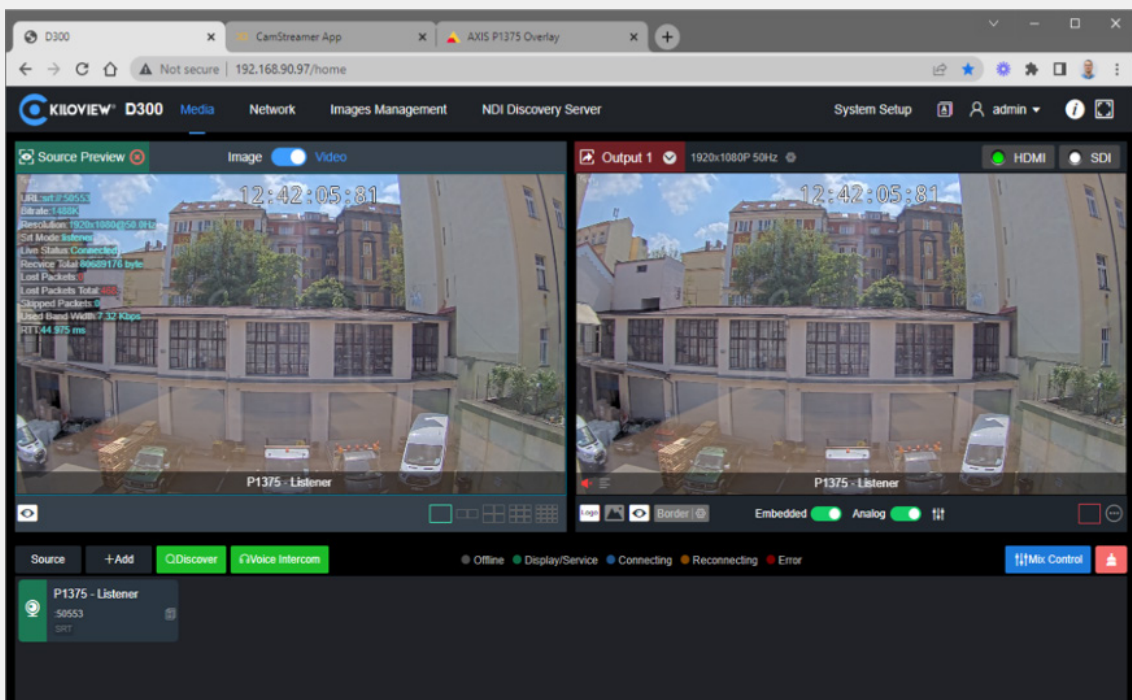
SRT Stream ID: 3337 **Experimental** 

Title	<input type="text" value="Optional"/>
Mode	<input type="text" value="Caller (push)"/>
IP address/hostname	<input type="text" value="212.24.██████"/>
Port	<input type="text" value="50553"/>
Bandwidth overhead (%)	<input type="text" value="25"/>
SRT Latency (µs)	<input type="text" value="125000"/>
Stream ID	<input type="text" value="1"/>
Encryption	<input type="text" value="None"/>
Currently set SRT parameters	<input type="text" value="latency=125000&streamid=1"/>
Custom SRT Parameters	<input type="text"/>
Additional SRT options	<input type="text"/>

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SRT Integration Test using **KILOVIEW D300 Decoder**

KILOVIEW D300 Decoder was set up as the **listener** (an available IP location with an open port). D300 was available via port forward on **port 50553** set up on **TCP/UDP connection**.



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SRT Integration Test using **KILOVIEW D300 Decoder**

The results show that a static Full HD video with few movements had an average latency Round-trip delay (RTT) of **30–50 ms** and a set latency of **125 ms**. The real latency via LTE network was around **1 s**. You can see measured values during testing directly in [CamStreamer App](#).

SRT statistics

	Value ?	Avg ?	Max ?
Stream uptime	02:06		
Sent speed [kbps]	1 790	1 078	1 796
Resent speed [kbps]	0	3	58
Dropped bytes [kB]	0		
Send buffer [ms]	75.00	53.69	120.00
RTT (ping) [ms]	53.23	50.71	74.85
Packet loss [%] ?	0.00	0.34	12.89

Secure Reliable Transport Protocol

SRT is an open-source video transport protocol used for optimizing video streaming performance across **unpredictable networks**. SRT utilizes UDP (User Datagram Protocol), maintains low latency and protects against jitter, packet loss, and bandwidth fluctuation.

Learn more on haivision.com

Summary

This test, carried out between a caller (AXIS P1375 camera with CamStreamer App installed) and a listener (KILOVIEW D300 decoder), **has verified** the integration of SRT protocol into the CamStreamer App.

[camstreamer.com/resources/
srt-integration](http://camstreamer.com/resources/srt-integration)

