WORLDCAST
SYSTEMS

POWERFUL | **PERFORMANCE**
CONTROL
SAVINGS
SERVICES

SureStream
Broadcasting over the Public Internet

APT SureStream is the best, most widely used and established technology for robust, cost-effective, real-time audio and video transport over inexpensive IP networks.

This award-winning innovation enables broadcasters to deliver professional broadcast-quality audio or video with all the reliability over any IP network you'd expect from synchronous connections like T1/E1 links, but at a fraction of the cost.

APT SureStream technology also offers the added benefit of "Always-ON Redundancy".

Always-ON redundancy creates a value from your backup path. Instead of paying for a stand-by link, SureStream uses this resource permanently and prevents switching between the primary and backup connections in the event of a failure by compensating for errors at the packet level.

With SureStream, you can save thousands on your content transport bills and still give your audience the best listening experience.

Benefits

$ Save On Transmission Costs
You can save most of the costs of your network services by replacing your synchronous or managed IP links and expensive satellite uplink services with the public Internet. Since the cost of DSL or FTTH services typically ranges between 5-10% of the cost of a dedicated connection, the potential savings are so significant that your investment will pay for itself in a few months.

Provide the Quality of Experience
The quality of your transmission should not be sacrificed for the sake of cost savings. With SureStream, you can maintain consistently high quality without dropouts and jitter.

Keep Delay Consistent
For professional content delivery, it is not acceptable for the signal delay to vary or to drift. The ability to maintain the delay at a consistent level is particularly useful for remote broadcast applications and local content insertion.
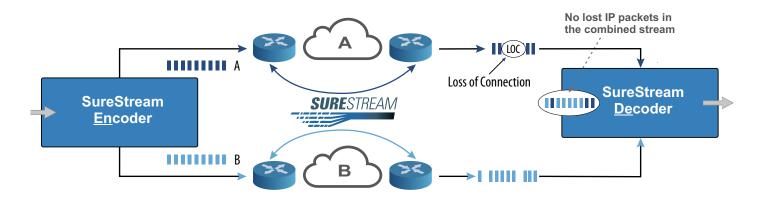
Relax!
SureStream offers you the same level of uptime and reliability on any kind of IP link as a 'five nines' Telco service. You are protected not only from drop-outs and glitches but also from a complete loss of connection!

SureStream | **How does it work?**

SureStream redundant streaming packet-by-packet protection

The figure shows the principle of SureStream. A network can be any data service, including wireless cellular networks.

SureStream is an advanced Redundant Streaming technology that sends multiple streams from the source to the same destination, increasing reliability and resilience. In cellular networks, the ability to scale the number of the component streams is particularly advantageous. In addition to stream multiplication, SureStream employs several proprietary techniques that optimize the delivery of all streams across the network.

APT's advanced resequencing engine creates a perfect, seamlessly reconstructed stream from multiple received streams on the decoder side. Excellent, uninterrupted content from an imperfect network of any kind!

With SureStream, the size of the jitter buffer is determined solely by the network and the varying latencies of the streams. Once set, the delay is constant, enabling consistent playout. SureStream works well on a single IP link for impromptu remotes or outside broadcasts.

For mission-critical transmissions, we recommend utilizing separate links from different providers (wired or wireless) to ensure optimum performance rivalling a traditional synchronous service. With two or more separate links, you are fully protected not only from network conditions but also any loss of physical connection. This is the true "Always-On Redundancy" achieved with SureStream.

SureStream | **Key Facts**

- ⇢ SureStream is a low-complexity pragmatic solution
- ⇢ SureStream is data agnostic; all kinds of data are allowed
- ⇢ SureStream enables perfect transmissions on any network
- ⇢ SureStream allows the combination of any network types
- ⇢ SureStream improves transmissions in wireless data services
- ⇢ SureStream is scalable in terms of stream replications
- ⇢ SureStream optimizes singular physical links
- ⇢ SureStream does not compromise your content quality
- ⇢ SureStream enables the lowest latency in the network

Order information

SureStream Licences for APT Codecs	
REF	**DESCRIPTION**
CD00123	SureStream for APT IP Codec and Virtual APT IP Codec
CD00136	SureStream for AoIP MODULE - APT FRAME 1U
CD00137	SureStream for AoIP MODULE - Oslo 3U
CD01041	APT IP Decoder + SureStream pour Ecreso FM (série AiO)

Technical specifications are subject to change without prior notice - On project, WorldCast Systems may offer distinct specifications. Specifications on the offer prevail those in this document.

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