AvediaStream Transcoders

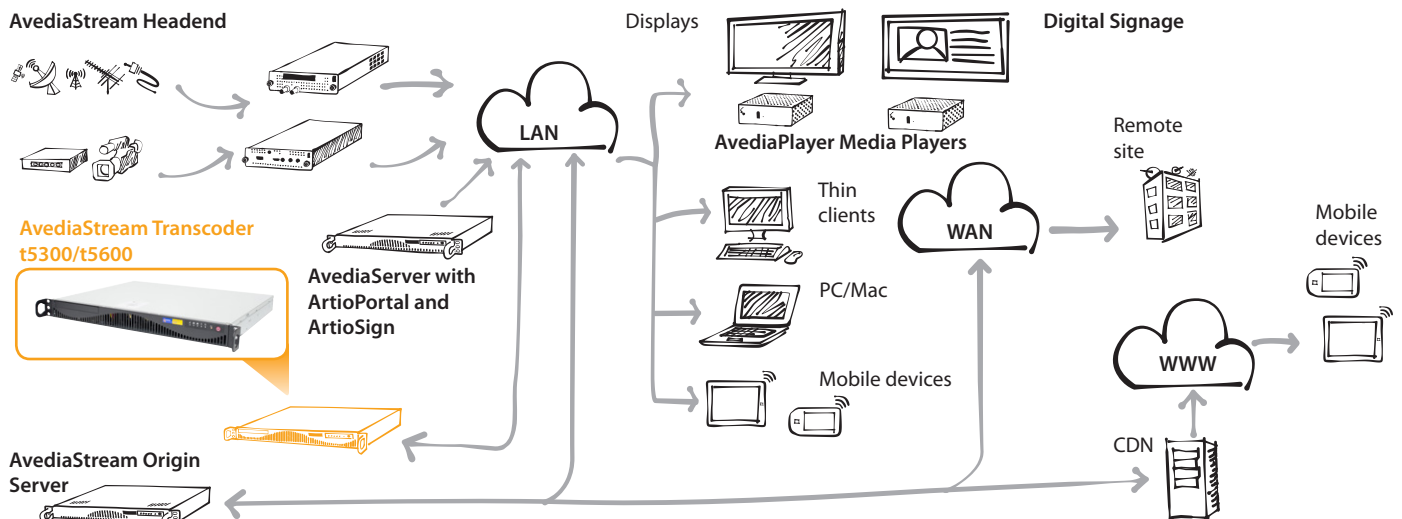## Transform digital media content for compatibility with any device, anywhere

Exterity AvediaStream® Transcoders are high-performance content transformation devices that enable content to be easily converted into a compatible format for delivery to any device, whether that's a TV, computer or mobile device.
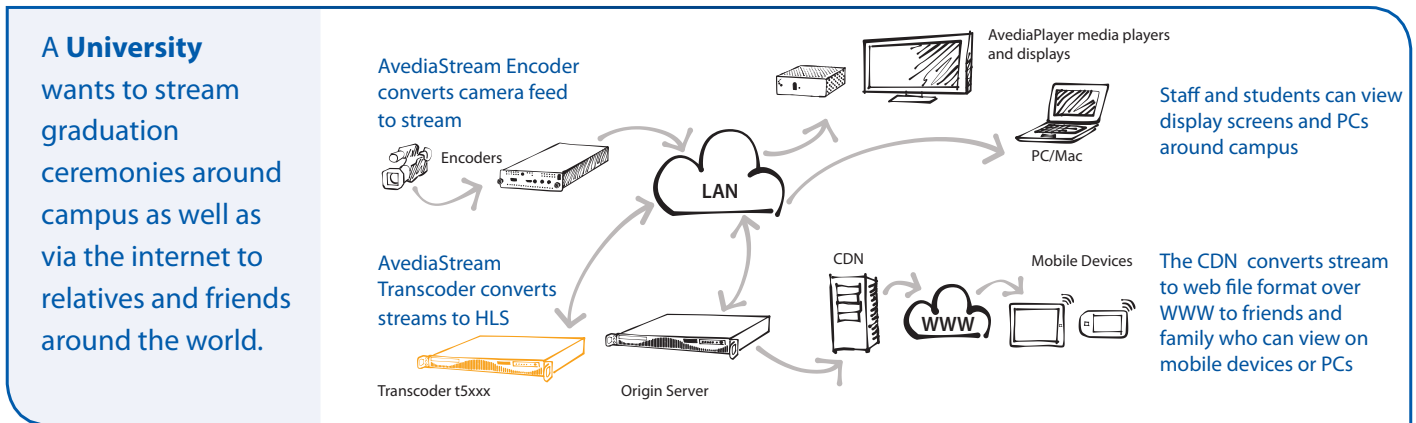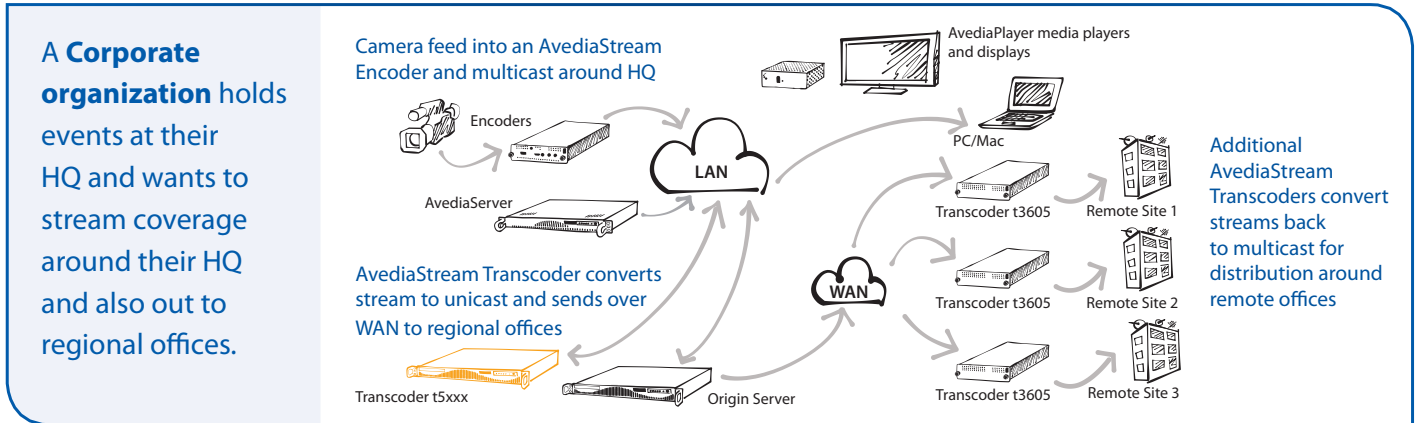
Benefits of AvediaStream Transcoders

- Convert IP video into the right format to suit a wide range of devices. Use file-to-file transcoding to convert video files, or live transcoding to convert IP video streams.

- AvediaStream Transcoders work seamlessly alongside the AvediaStream Origin Server to extend the reach of video beyond the wired LAN to mobile devices and the internet.

- Save time and simplify video conversion by placing in a watch folder for automatic transcoding.

- Multiple de-interlacing options available to suit different network bandwidths.

- Keep track of your remaining transcoding capacity with an easy-to-read usage chart displayed in the user interface.

- High Availability, which means that two transcoders can be configured in a cluster to provide continued availability of live stream transcodes using a failover mechanism.

Functions of AvediaStream Transcoders

Scale: Reduce or increase the resolution of the image; for example, from 1080i to 360p.

Transcode: Change the encoding of video and/or audio; for example, MPEG-2 to H.264.

Transrate: Alter the compression and therefore the transmission bit rate, regardless of whether or not the codec type is changed, for example, from 6Mbps to 500kbps.

Transpose: Rotate video for use in portrait video applications, such as digital signage or airport flight information displays.

Transcast: Re-encapsulate stream transport container format to match playback devices, or convert between multicast and unicast to pass through routed networks.

AvediaStream Headend · Displays · Digital Signage · AvediaStream Transcoder t5300/t5600 · AvediaServer with ArtioPortal and ArtioSign · AvediaPlayer Media Players · Thin clients · PC/Mac · Mobile devices · LAN · WAN · WWW · CDN · Remote site · Mobile devices · AvediaStream Origin Server

Example AvediaStream Transcoder use cases include:

A **Corporate organization** holds events at their HQ and wants to stream coverage around their HQ and also out to regional offices.

Camera feed into an AvediaStream Encoder and multicast around HQ

AvediaPlayer media players and displays

Encoders

AvediaServer

PC/Mac

LAN

Transcoder t3605   Remote Site 1

WAN

Transcoder t3605   Remote Site 2

Additional AvediaStream Transcoders convert streams back to multicast for distribution around remote offices

AvediaStream Transcoder converts stream to unicast and sends over WAN to regional offices

Transcoder t5xxx   Origin Server   Transcoder t3605   Remote Site 3

A **University** wants to stream graduation ceremonies around campus as well as via the internet to relatives and friends around the world.

AvediaStream Encoder converts camera feed to stream

AvediaPlayer media players and displays

Encoders

LAN

PC/Mac

Staff and students can view display screens and PCs around campus

AvediaStream Transcoder converts streams to HLS

CDN   Mobile Devices

WWW

The CDN converts stream to web file format over WWW to friends and family who can view on mobile devices or PCs

Transcoder t5xxx   Origin Server

	AvediaStream t3605 Transcoder	AvediaStream t5300 Transcoder	AvediaStream t5600 Transcoder
Convert file-to-file Transcode		✓	✓
Convert Live Transcode	✓	✓	✓
Stream Delivery	✓ (single channel)	✓ (up to 40 video channels depending on format)	✓ (up to 75 video channels depending on format)

The Exterity Transcoder range has been developed to provide varying levels of transcoding power to match solution requirements:

t3605
The t3605 is designed to transcode individual IPTV channels for delivery to Exterity and third party devices. The t3605 can also contribute streams to a CDN or deliver directly to small numbers of mobile clients via HLS.

t5300
The t5300 is a full featured, rack-mounted transcoder capable of transforming content to suit all fixed and mobile devices. It transcodes inputs up to 4K and delivers up to 40 concurrent channels.

t5600
For more demanding transcoding requirements, the high-performance t5600 builds on the foundation of the t5300 and delivers up to 75 channels simultaneously.

AvediaCare

Ensure your Exterity solution is protected, maintained and enhanced over its lifetime with our comprehensive AvediaCare support warranty. Register your Exterity products at www.exterity.com/support/register

CERTIFIED QUALITY MANAGEMENT SYSTEM
URS
UNITED REGISTRAR OF SYSTEMS
ISO 9001