



TAC 2.0 – TACTICAL IP STREAMING TRANSCODING & ROUTING

Scalable, secure and highly reliable

PRODUCT DESCRIPTION

The **Transcoding Appliance Cluster** combines the functions of a digital routing matrix and a powerful stream transcoder. Video streams can be efficiently distributed and managed via an intuitive matrix interface in a single application.

The platform offers complete control over the routing of incoming and outgoing live streams and ensures reliable signal transmission – even in time-critical and security-sensitive environments. A user-friendly interface is designed for easy configuration and management of streams. Built-in monitoring lets you keep an eye on key parameters like bitrate, FPS, and incoming and outgoing streams in real time for maximum transparency and uninterrupted video processing.

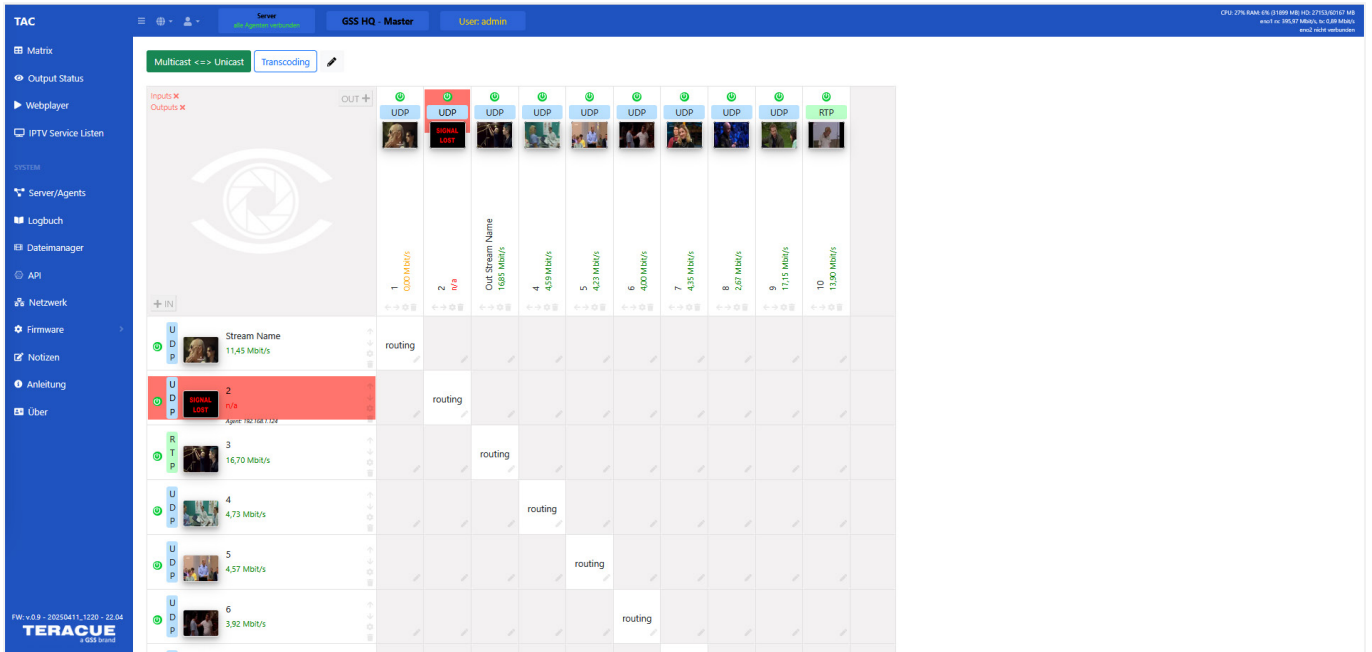
APPLICATION

- ✓ Transcoding for OTT streaming
- ✓ Private streaming platform (WAN and QoS stream distribution)
- ✓ Input routing for control rooms and playback to video wall systems
- ✓ LAN routing for network separation

FEATURES

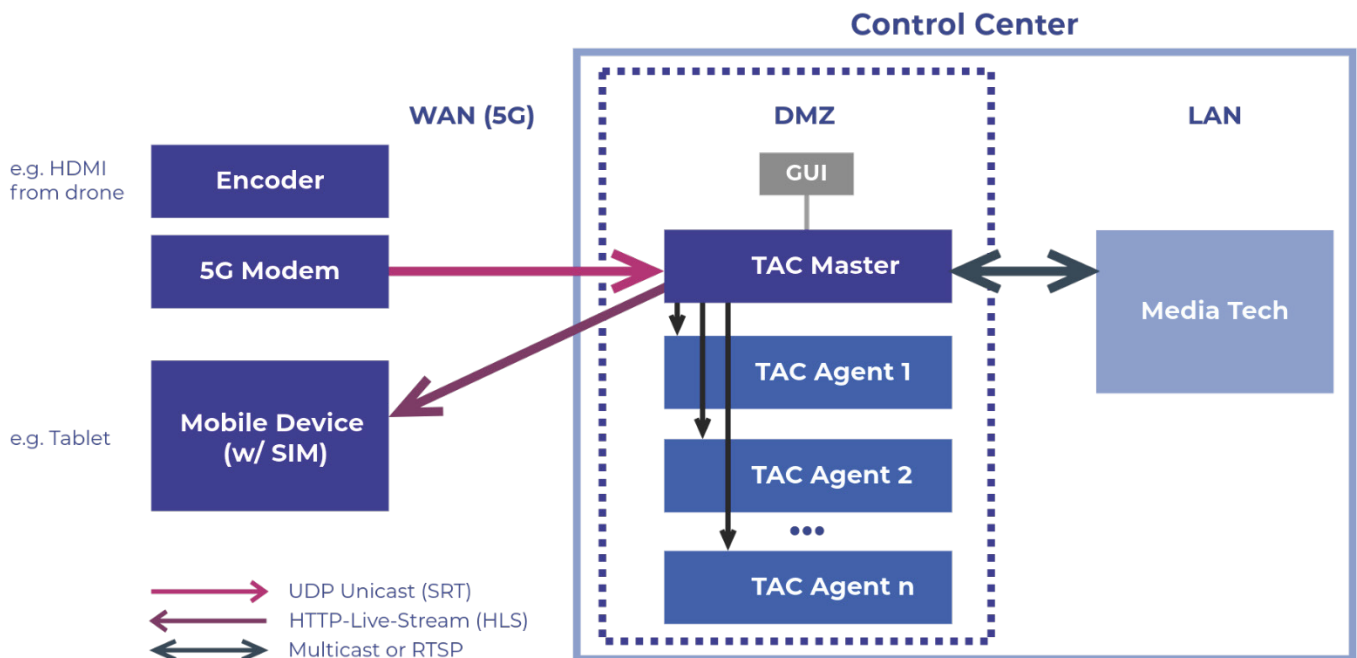
- Flexible protocol support for maximum compatibility
- Scalable licensing model
- Support for various compression methods and resolutions
- Unicast and multicast streaming with service lists
- Advanced user and role management
- Intuitive input/output matrix with individually configurable tabs
- Powerful appliance architecture
- Web-based interface for simplified configuration and administration
- Out-of-the-box presets for various scenarios
- Real-time monitoring of all active streams, including bitrate display

THE TRANSCODING APPLIANCE CLUSTER



SOLUTION APPROACH

SELF-HOSTED OTT / STREAM ROUTING PLATFORM



FUNCTION OVERVIEW

INPUT	
Stream input protocols	MPEG-TS: UDP, RTP
Video codecs input	H.265-HEVC, H.264-AVC, MPEG-4, MPEG-2
Audio codecs input	AAC-LC, AC3, MPEG-1 Layer II
OUTPUT	
Stream output protocols	MPEG-TS: UDP, RTP
Video codecs output	H.265-HEVC, H.264-AVC, MPEG-4, MPEG-2
Audio codecs output	AAC-LC, AC3, MPEG-1 Layer II
GENERAL	
Error correction	PRO-MPEG FEC (Forward Error Correction)
Control and configuration	Web browser
Supported agents / system	Unlimited
Supported network interfaces / systems	Unlimited
HARDWARE	
CPU	Intel® i7-10700E
RAM	32 GB
Operating system	LINUX image
Network	2x 10 GbE RJ45, half/full duplex, auto detection or manual
FEATURES	
Case	19", 1 HE (482 x 407 x 44 mm)
Weight	6,15 kg
Certification	CE, RoHS, WEEE
Operating temperature / humidity	+5 bis +60°C / 10~90%, non-condensing
Stromversorgung / Verbrauch	260 Watt power supply, approx. 120 Watt, 100-240V, 47-63 Hz, redundancy optional
Warranty	1-year warranty. Warranty extension up to 5 years possible.

* FEATURES WILL BE LAUNCHED WITH FUTURE UPGRADES

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